



CITY OF
RIVERSIDE

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT PLANNING DIVISION

INITIAL STUDY

Case No. PR-2021-001058

**Riverside Housing and Public Safety Element Updates and
Environmental Justice Policies Project**

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Acronyms and Abbreviations

AB	Assembly Bill
AF	acre-feet
AIA	Airport Influence Area
amsl	above mean sea level
AQMP	air quality management plans
AUSD	Alvord Unified School District
BMPs	best management practices
CAAQS	California Ambient Air Quality Standards
CALGreen	California Green Building Standards Code
Caltrans	California Department of Transportation
CalVeg	Classification and Assessment with Landsat of Visible Ecological Groupings
CAP	Climate Action Plan
CARB	California Air Resources Board
CBC	California Building Code
CBSC	California Building Standards Code
CBSC	California Green Building Standards Code
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CH ₄	methane
CHLs	California Historical Landmarks
CIP	Capital Improvement Program
City	City of Riverside (governing entity)
CNPS	California Native Plant Society
CO ₂	carbon dioxide
CRHR	California Register of Historical Resources
DAMP	Drainage Area Management Plan
DTSC	Department of Toxic Substances Control
EIR	environmental impact report
EPA	U.S. Environmental Protection Agency
FEMA	Federal Emergency Management Agency
FTA	Federal Transit Administration
GHG	greenhouse gas
GP 2025	City of Riverside General Plan 2025
GP FPEIR	City of Riverside General Plan and Supporting Documents Final Program Environmental Impact Report
gpm	gallons per minute

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HVAC	heating, ventilation, and air-conditioning
LID	low-impact development
MRZ	mineral resource zone
MS4	Municipal Separate Storm Sewer System
N ₂ O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
NCA	Neighborhood Conservation Area
NOP	Notice of Preparation
NO _x	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NHTSA	National Highway Traffic and Safety Administration
O ₃	ozone
OEM	Office of Emergency Management
PM	particulate matter
PM ₁₀	PM less than or equal to 10 microns
PRC	Public Resources Code
proposed Project	Riverside Housing and Public Safety Element Updates and Environmental Justice Policies Project
PV	photovoltaic
RCFCWCD	Riverside County Flood Control and Water Conservation District
RCFD	Riverside County Fire Department
RCHCA	Riverside County Habitat Conservation Agency
RFD	Riverside Fire Department
RHNA	Regional Housing Needs Allocation
RIVTAM	Riverside Traffic Analysis Model
RMC	Riverside Municipal Code
ROGs	reactive organic gases
RPD	Riverside Police Department
RPS	Renewables Portfolio Standard
RPU	Riverside Public Utilities
RUSD	Riverside Unified School District
RWQCB	Regional Water Quality Control Board
SB	Senate Bill
SCAG	Southern California Association of Governments
SCE	Southern California Edison
SCAB	South Coast Air Basin
SCAQMD	South Coast Air Quality Management District

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SDAPCD	San Diego Air Pollution Control District
SEMS	Standardized Emergency Management System
SKR HCP	Stephens' Kangaroo Rat Habitat Conservation Plan
SMGB	State Mining and Geology Board
SOI	Sphere of Influence
SWPPP	Stormwater Pollution Prevention Plan
TMDL	total maximum daily load
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
UST	underground storage tank
VMT	vehicle miles traveled
WQMPs	Water Quality Management Plans
WRCRCA	Western Riverside County Regional Conservation Authority
WRC MSHCP	Western Riverside County Multiple Species Habitat Conservation Plan

Environmental Factors Potentially Affected

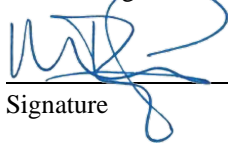
The environmental factors checked below could be affected by the proposed Riverside Housing and Public Safety Element Updates and Environmental Justice Policies Project (proposed Project) (i.e., the proposed Project would involve at least one impact that is a “Potentially Significant Impact”), as indicated by the checklist on the following pages.

- | | | |
|---|--|---|
| <input type="checkbox"/> Aesthetics | <input type="checkbox"/> Agricultural and Forestry Resources | <input checked="" type="checkbox"/> Air Quality |
| <input checked="" type="checkbox"/> Biological Resources | <input checked="" type="checkbox"/> Cultural Resources | <input type="checkbox"/> Energy |
| <input checked="" type="checkbox"/> Geology/Soils/
Paleontological Resources | <input checked="" type="checkbox"/> Greenhouse Gas Emissions | <input checked="" type="checkbox"/> Hazards and Hazardous
Materials |
| <input type="checkbox"/> Hydrology/Water Quality | <input checked="" type="checkbox"/> Land Use/Planning | <input type="checkbox"/> Mineral Resources |
| <input checked="" type="checkbox"/> Noise | <input checked="" type="checkbox"/> Population/Housing | <input checked="" type="checkbox"/> Public Services |
| <input checked="" type="checkbox"/> Recreation | <input checked="" type="checkbox"/> Transportation | <input checked="" type="checkbox"/> Tribal Cultural Resources |
| <input checked="" type="checkbox"/> Utilities/Service Systems | <input type="checkbox"/> Wildfire | <input checked="" type="checkbox"/> Mandatory Findings of
Significance |

Determination

On the basis of this initial evaluation:

- I find that the proposed Project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- I find that although the proposed Project could have a significant effect on the environment, there will not be a significant effect in this case because revisions to the proposed Project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
- I find that the proposed Project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- I find that the proposed Project MAY have an impact on the environment that is “potentially significant” or “potentially significant unless mitigated” but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards and (2) has been addressed by mitigation measures based on the earlier analysis, as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
- I find that although the proposed Project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed Project, nothing further is required.



Signature

April 5, 2021

Date

Matthew Taylor, Senior Planner

Printed Name

City of Riverside

For

Evaluation of Environmental Impacts

1. A brief explanation is required for all answers except “No Impact” answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A “No Impact” answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the proposed Project falls outside a fault rupture zone). A “No Impact” answer should be explained if it is based on project-specific factors as well as general standards (e.g., the proposed Project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
2. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
3. Once the lead agency has determined that a particular physical impact may occur, the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. “Potentially Significant Impact” is appropriate if there is substantial evidence that an effect may be significant. If there are one or more “Potentially Significant Impact” entries when the determination is made, an environmental impact report (EIR) is required.
4. “Less than Significant with Mitigation Incorporated” applies when the incorporation of mitigation measures has reduced an effect from a “Potentially Significant Impact” to a “Less-than-Significant Impact.” The lead agency must describe the mitigation measures and briefly explain how they reduce the effect to a less-than-significant level. (Mitigation measures from earlier analyses, as described in #5, below, may be cross referenced.)
5. Earlier analyses may be used if, pursuant to tiering, program EIR, or other California Environmental Quality Act (CEQA) process, an effect has been adequately analyzed in an earlier EIR or negative declaration (Section 15063[c][3][D]). In this case, a brief discussion should identify the following:
 - a. Earlier Analysis Used. Identify and state where earlier analyses are available for review.
 - b. Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards and state whether such effects were addressed by mitigation measures, based on the earlier analysis.
 - c. Mitigation Measures. For effects that are “Less than Significant with Mitigation Incorporated,” describe the mitigation measures that were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the proposed Project.
6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, when appropriate, include a reference to the page or pages where the statement is substantiated.
7. Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.

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8. This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
9. The explanation of each issue should identify:
 - a. The significance criteria or threshold, if any, used to evaluate each question; and
 - b. The mitigation measure identified, if any, to reduce the impact to a less-than-significant level.

I. Aesthetics

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Except as provided in Public Resources Code Section 21099, would the proposed Project:				
a. Have a substantial adverse effect on a scenic vista?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings along a scenic highway?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the proposed Project is in an urbanized area, would the proposed Project conflict with applicable zoning and other regulations governing scenic quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. Create a new source of substantial light or glare that would adversely affect daytime or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Affected Environment

City of Riverside General Plan 2025 (GP 2025), Figure LU-3, *Riverside Parks*, identifies the City of Riverside’s (City’s) natural and scenic vistas. Within the northwest portion of the City is the Santa Ana River floodplain. To the east, southeast, and west, the uplands and low mountains include Box Springs Mountain, Alessandro Heights, Arlington Mountain, and La Sierra/Norco Hills. A variety of prominent natural features in the City include Mount Rubidoux, Pachappa Hill, Sycamore Canyon, Hawarden Hills, distinctive arroyos, and isolated hills. Open space areas include the Santa Ana River Corridor, Box Springs Mountain Regional Park, Sycamore Canyon Wilderness Park, Mount Rubidoux Park, and California Citrus State Historic Park.

The City does not include a State Scenic Highway. However, the *City of Riverside General Plan and Supporting Documents Final Program Environmental Impact Report 2025 (GP FPEIR)* identifies the City’s scenic parkways in Table 5.1-B, *Scenic Parkway*. According to GP FPEIR Table 5.1-B, the City’s scenic parkways include:

- Victoria Avenue,
- Magnolia Avenue/Market Street,
- University Avenue,
- Van Buren Boulevard,
- Riverwalk Parkway,
- La Sierra Avenue,

- Overlook Parkway,
- Canyon Crest Drive; and
- Arlington Avenue.

Discussion

a. Have a substantial adverse effect on a scenic vista?

Less-than-Significant Impact. Development of housing units under the proposed Project would increase residential densities and non-residential land use intensities in specific areas. Development under the proposed Project would be concentrated in existing transit corridors and not in open space areas and would not block scenic views of the surrounding mountains or the Santa Ana River. Pursuant to RMC standards and as part of each project's design review process (RMC Chapter 19.710), all development under the proposed Project would require design review and must demonstrate conformance with relevant GP 2025 policies and Riverside Municipal Code (RMC) standards. For example, future development must demonstrate conformance with GP 2025 Objective LU-3 policies, which are intended to preserve prominent ridgelines and hillsides as important community visual assets (i.e., Policy LU-3.1). In addition, future development must comply with GP 2025 Objective OS-2 policies, which are intended to minimize the extent of urban development in the hillsides and mitigate any significant adverse consequences associated with urbanization (i.e., Policies OS-2.1 through OS-2.4). RMC standards would regulate land uses, building heights, setbacks, landscaping, parking, fences and walls, and other development characteristics to protect the City's hills and ridgelines. The proposed Project would not have a substantial adverse effect on a scenic vista and the impact would be less than significant.

b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings along a scenic highway?

Less-than-Significant Impact. The proposed Project would not result in any effects on scenic highways or scenic resources. Future development under the Housing Element update and zoning code as well as specific plan amendments could occur in areas near the abovementioned GP 2025-designated scenic parkways. There would be no development under the proposed Project on sites with rock outcroppings and no scenic historic resources would be removed. Project-related impacts would be reduced to less than significant through compliance with the RMC, Citywide Design Guidelines, and Sign Guidelines. Pursuant to RMC requirements and as part of the design review process, the City would assess all future development proposals on a project-by-project basis. The RMC would regulate land uses, building heights, setbacks, landscaping, parking, fences and walls, and other development standards to protect the City's scenic parkways and resources. Compliance with the RMC, Citywide Design Guidelines, and Sign Guidelines would ensure project impacts remain less than significant.

c. In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the proposed Project is in an urbanized area, would the proposed Project conflict with applicable zoning and other regulations governing scenic quality?

Less-than-Significant Impact. Updates to the Public Safety Element and inclusion of environmental justice policies would not result in any effects on visual character or quality. The City includes a mixture of developed, partially developed, and vacant land anticipated for future development. Where Zoning Code and Specific Plan Amendments occur on vacant, rural, or agricultural land uses,

implementation of the proposed Project would have the potential to alter the existing visual character or quality of these sites. However, compliance with GP 2025 policies and RMC and specific plan standards, as well as Citywide Design Guidelines and Sign Guidelines, would ensure no substantial degradation of visual character and quality, and project impacts would be less than significant.

Future development must demonstrate conformance with GP 2025 Objective OS-4 policies, which are intended to preserve designated buffers between urban and rural uses for their open space and aesthetic benefits (i.e., Policies OS-4.1 and OS-4.2). Pursuant to RMC requirements and as part of the design review process, the City would assess all future development proposals on a project-by-project basis to prevent nonconforming uses and structures with the potential to affect the City's visual character. The RMC regulates land uses, building heights, setbacks, landscaping, parking, fences and walls, and other development characteristics to protect the City's visual character. Compliance with GP 2025 Objective OS-4 policies, among others, as well as RMC standards would ensure impacts on visual character would be less than significant.

d. Create a new source of substantial light or glare that would adversely affect daytime or nighttime views in the area?

Less-than-Significant Impact. The development of new housing units and associated Zoning Code and specific plan amendments to accommodate the housing could introduce new sources of light or glare with the potential to adversely affect daytime or nighttime views in some areas. The Riverside County Light Pollution Ordinance (Riverside County Ordinance No. 655) restricts nighttime lighting for areas within a 15-mile radius (Zone A) and a 45-mile radius (Zone B) of the Palomar Observatory. As shown in GP FPEIR Figure 5.1-1, *Palomar Observatory Lighting Impact Zone*, the southeastern portion of the project area is within Zone B, or within a 45-mile radius of the observatory (45-mile Radius Lighting Impact Zone). Any future development occurring within this area must demonstrate conformance with Riverside County Ordinance No. 655. The City requires all development that introduces light sources, or modifications to existing light sources, to incorporate shielding devices or other light pollution-limiting design features (e.g., hoods or lumen restrictions); refer to GP FPEIR Mitigation Measure AES-1. Pursuant to RMC and Specific Plan standards, and Citywide Design Guidelines and Sign Guidelines, the City would assess all future development proposals on a project-by-project basis, as part of the design review process, to regulate site lighting with the potential to result in light and glare impacts. RMC Section 19.556, *Lighting*, and Section 19.590.070, *Light and Glare*, include standards intended to protect the City from adverse light and glare impacts. Compliance with Riverside County Ordinance No. 655 requirements, existing GP FPEIR Mitigation Measure AES-1, and RMC Section 19.556 and Section 19.590.070, future development facilitated pursuant to the proposed Project would not introduce new sources of substantial light or glare. The impact would be less than significant.

II. Agricultural and Forestry Resources

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
<p>In determining whether impacts on agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts on forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project, and forest carbon measurement methodology provided in the Forest Protocols adopted by the California Air Resources Board. Would the proposed Project:</p>				
a. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Conflict with existing zoning for agricultural use or conflict with a Williamson Act contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. Conflict with existing zoning for, or cause rezoning of forest land (as defined in Public Resources Code Section 12220[g]), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104[g])?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d. Result in the loss of forest land or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e. Involve other changes in the existing environment that, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Affected Environment

In 2005, Riverside County had a total of 223,848 acres of harvested crops. In 2018, the number had dropped to 194,346 harvested acres (Riverside County Agricultural Commissioner 2018). This represents a loss of 29,502 acres in 15 years, or approximately 13 percent. The Riverside County Agricultural Commissioner's office also reports statistics for regions of Riverside County, including the Riverside/Corona District, which is where the proposed Project is located. For the 2005 to 2016 timeframe, the latest reported, the Riverside/Corona District went from 14,340 harvested acres to 7,020

harvested acres, a reduction of approximately 51 percent (Riverside County Agricultural Commissioner 2018). This shows that the development pressure faced in the western end of the county, where the City of Riverside is located, is more rapid than in the county.

The citrus industry was influential in the establishment of the City of Riverside in the late nineteenth century and its influence continues today. The largest area of agriculture within City limits is the Arlington Heights Greenbelt. The City's Sphere of Influence (SOI) still contains large citrus groves, especially in the Highgrove, Woodcrest, and Rancho El Sobrante areas; however, over time, many of the large agricultural and citriculture areas have been converted to suburban uses.

In 1979, City of Riverside voters passed Proposition R: "Taxpayer's Initiative to Reduce Costly Urban Sprawl by Preserving the City of Riverside's Citrus and Agricultural Lands, Its Unique Hills, Arroyos and Victoria Avenue." The two main features of Proposition R relate to: 1) preservation of agriculture through application of the RA-5-Residential Agricultural Zone to two specific areas of the City: and 2) protection of hillside areas through application of the RC Residential Conservation Zone to areas of the City based on slopes over 15 percent. The two areas of the City which were zoned to RA-5 are: 1) the Arlington Heights Greenbelt; and 2) an area commonly known as the Arlanza-La Sierra Lands, a bluff top area above the Santa Ana River bordered by Tyler Street on the east and Arlington Avenue on the west. Eight years later, City of Riverside voters approved Measure C as an amendment to Proposition R, entitled "Citizens' Rights Initiative to Reduce Costly Urban Sprawl, to Reduce Traffic Congestion, to Minimize Utility Rate Increases and to Facilitate Preservation of the City of Riverside's Citrus and Agricultural Lands, its Scenic Hills, Ridgelines, Arroyos and Wildlife Areas." Measure C amended Proposition R by adding policies to promote agriculture. Measure C relates to the Arlington Heights Greenbelt, the Arlanza-La Sierra Lands and any areas designated for agricultural use in the then existing General Plan or Zoning Code.

Discussion

a. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

No Impact. The California Department of Conservation (CDOC) Farmland Mapping and Monitoring Program designates the majority of the City as Urban and Built-Up Land (CDOC 2020). Several small areas of the City are designated as Important Farmland, Farmland of Statewide Importance, Unique Farmland, and Other Land (CDOC 2020). The areas designated as such occur primarily near the southern boundary of the City, south of Victoria Avenue and west of Washington Street within the Arlington Heights Neighborhood. The northeastern area of the City also contains land designated as Important Farmland, Farmland of Statewide Importance, Unique Farmland, and Other Land (CDOC 2020). The areas designated as such occur primarily within the University of California, Riverside West Campus. The proposed Project would not propose any new development in areas designated as Important Farmland, Farmland of Statewide Importance, Unique Farmland, or Other Land. As such, the proposed Project would not convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance, and no impacts would occur.

b. Conflict with existing zoning for agricultural use or conflict with a Williamson Act contract?

No Impact. There are ten Williamson Act contract parcels within city limits. Four parcels are located in the Prenda neighborhood and six are located in the southeastern portion of the city in the Woodcrest area. Review of the GP 2025 Open Space and Conservation Element indicates none of the

opportunity sites is within Williamson Act preserves or contracted land. As such, the proposed Project would have no impact related to agricultural zoning or Williamson Act contract lands, and no conflicts with existing zoning for agricultural uses would occur.

c. Conflict with existing zoning for, or cause rezoning of forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?

No Impact. The proposed Project does not identify opportunity sites zoned for forest land. In addition, there are no lands zoned as forest land, timberland, or timberland zoned Timberland Production areas (as defined in Public Resources Code [PRC] 12220[g] and PRC 4526 or Government Code 51104[g]) within the project area. The proposed Project would not affect forest land or timberland or conflict with existing zoning for forest land.

d. Result in the loss of forest land or conversion of forest land to non-forest use?

No Impact. As described above, the proposed Project and Zoning Code and specific plan amendments, do not identify opportunity sites zoned for forest land. As such, no impacts related to the loss of forest land or conversion of forest land to non-forest use would occur.

e. Involve other changes in the existing environment that, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?

No Impact. As mentioned above, no agricultural farmland or forest land resources are on the identified opportunity sites, in addition, the proposed Project would not involve other changes to the existing environment that could result in the conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use. As such, no impacts related to the conversion of agricultural or forest land to other land uses would occur.

III. Air Quality

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the proposed Project:				
a. Conflict with or obstruct implementation of the applicable air quality plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is a nonattainment area for an applicable federal or state ambient air quality standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Expose sensitive receptors to substantial pollutant concentrations?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Affected Environment

The City is in the South Coast Air Basin (SCAB), which includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The South Coast Air Quality Management District (SCAQMD) is required, pursuant to the federal and state Clean Air Acts, to reduce emissions of criteria pollutants for which the SCAB is in nonattainment. The SCAB is currently classified as a nonattainment area for the federal and state ozone (O₃) standards and the standards regarding particulate matter (PM) less than or equal to 2.5 microns (PM_{2.5}); it is also a nonattainment area for the state standards regarding PM less than or equal to 10 microns (PM₁₀) (U.S. Environmental Protection Agency 2020; SCAQMD 2016).

Discussion

a. Conflict with or obstruct implementation of the applicable air quality plan?

Potentially Significant Impact. As mentioned above, the SCAQMD is required to reduce emissions of criteria pollutants for which SCAB is in nonattainment status (i.e., O₃, PM_{2.5}, and PM₁₀). The SCAQMD has developed air quality management plans (AQMPs) to control these pollutants and reach attainment levels. SCAQMD’s most recent plan to achieve air quality standards is the 2016 AQMP, adopted by the SCAQMD Governing Board on March 3, 2017. Implementation of the proposed Project could lead to emissions that were not accounted for in the applicable air quality plans. The proposed Project may conflict with or obstruct implementation of the SCAQMD’s AQMP. This impact is potentially significant and will be analyzed in the forthcoming EIR.

b. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is a nonattainment area for an applicable federal or state ambient air quality standard?

Potentially Significant Impact. SCAB is presently in nonattainment status under the California Ambient Air Quality Standards (CAAQS) for O₃, PM_{2.5}, and PM₁₀ and in nonattainment status under the National Ambient Air Quality Standards (NAAQS) for O₃ and PM_{2.5}. O₃ is formed when volatile organic compounds (VOCs), also referred to as reactive organic gases (ROGs), and nitrogen oxides (NO_x) react in the presence of sunlight. VOC sources include fuels (e.g., gasoline, natural gas, wood, oil), solvents, petroleum processing and storage facilities, and pesticides. Sources of PM₁₀ and PM_{2.5} in both urban and rural areas include motor-vehicle exhaust, wood-burning stoves and fireplaces, dust from construction, landfills, agricultural operations, wildfires, brush/waste burning, dust from paved and unpaved road travel, and windblown dust from open lands.

The Housing and Public Safety Elements updates, development of environmental justice policies, and Zoning Code and specific plan amendments under the proposed Project, would not directly result in any construction activities or operational air quality emissions. However, future housing, public infrastructure, and mixed-use developments in the City facilitated by the proposed Project could result in emissions from their construction and operation. These potential indirect impacts of the proposed Project could result in a cumulatively considerable net increase in criteria pollutants, including those for which the region is in nonattainment status. This impact is potentially significant, and further analysis will be provided in the forthcoming EIR.

c. Expose sensitive receptors to substantial pollutant concentrations?

Potentially Significant Impact. The SCAQMD defines sensitive receptors as people in the population who are particularly susceptible to health effects due to exposure to an air contaminant. Land uses where sensitive receptors are typically located include schools, playgrounds, childcare centers, long-term health care facilities, rehabilitation centers, convalescent centers, hospitals, retirement homes, and residences (SCAQMD 2005). Although the proposed Project would not directly result in any construction activities or operational air quality emissions, future housing, public infrastructure, and mixed-use developments in the City facilitated by the proposed Project could expose sensitive receptors and environmental justice communities to substantial pollutant concentrations. This impact is potentially significant and will be analyzed in the forthcoming EIR.

d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less-than-Significant Impact. According to the California Air Resources Board's (CARB's) *CEQA Air Quality and Land Use Handbook*, land uses associated with odor complaints typically include sewage treatment plants, landfills, recycling facilities, waste transfer stations, petroleum refineries, biomass operations, auto body shops, coating operations, fiberglass manufacturing facilities, foundries, rendering plants, and livestock operations (CARB 2005). The proposed Project would not include any of the odor-related uses identified by the SCAQMD.

The proposed Project would not directly result in any construction activities. However, future housing, public infrastructure, and mixed-use developments in the City facilitated by the proposed Project could result in construction activities, which could generate detectable odors from heavy-duty equipment exhaust. These construction-related odors would be short term in nature and would cease once construction was completed. In addition, SCAQMD Rule 402, *Nuisance*, prohibits the discharge of air contaminants that cause a nuisance or annoyance for the public, including odors. All future development resulting from the proposed Project would be required to comply with this rule. As such, the impact of other emissions, including those leading to odors, would be less than significant.

IV. Biological Resources

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Would the proposed Project:				
a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marshes, vernal pools, coastal wetlands, etc.) through direct removal, filling, hydrological interruption, or other means?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. Conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Affected Environment

The City is in the South Coast subregion of the southwestern California region and within the California Floristic Province (Baldwin et al. 2012). The natural vegetation of the subregion consists primarily of chaparral, sage scrub, annual grasslands, woodland, and riparian scrub and forest. Much of the natural vegetation occurs in preserved open space or fragmented patches in areas that are not developed.

The City is within valley and foothills between the Santa Ana, San Bernardino, and San Jacinto Mountains. Major topographic features in the vicinity of the study area include the Estelle Mountains to the south, the Santa Ana Mountains to the west, the Box Spring Mountains to the immediate east, the San Bernardino Mountains to the northeast, and San Jacinto Mountains to the southeast. Human activities and land use in the City have historically involved ranching, farming, and mining. The City comprises primarily urban land uses (residential, commercial, office, industrial, and infrastructure); smaller portions of the City include farming lands, rural residential development, and open space, including conservation lands.

The topography of the City ranges from generally flat or gently sloping to areas of rugged terrain, rolling hills, and steep slopes. The more rugged terrain is confined primarily to the southern portion of the City, with the northern and central portion being composed of mainly flat lands. Elevations range from approximately 700 feet above mean sea level (amsl) near the Santa Ana River to almost 1,400 feet amsl west of La Sierra. Soils in the City consist primarily of well-drained loams, ranging from fine sandy loam to cobbly loam; they also include clay and gravelly loamy sand. Most of the City is within the Santa Ana River Watershed, with a small portion of the eastern part occurring within the San Jacinto Valley Watershed (see Section X, *Hydrology and Water Quality*, for details). The major water feature in the City is the Santa Ana River. In addition, several arroyos and canals cross the City, including Riverside Canal, Sycamore Canyon, Gage Canal, Spring Brook River/Wash, Tequesquite Arroyo, Alessandro Arroyo, Prenda Arroyo, Woodcrest Arroyo, and Mockingbird Canyon, along with smaller unnamed earthen and concrete-lined drainages.

The majority of the undeveloped lands, open space, and conserved land is at the northern border, along the Santa Ana River corridor, and in the undeveloped foothills, canyons, arroyos, and mountains of Sycamore Canyon Park, Mockingbird Canyon, and Alessandro Heights in the southern portion. These open space areas contain native riparian, grassland, and scrubland habitats that support many native plants and animals, including special-status species and sensitive natural communities. These lands serve as wildlife corridors, which provide areas of undisturbed open space for regional wildlife migration between natural habitats, thereby promoting the proliferation of indigenous animal species. The remainder of the land cover types within the City are residential, commercial, and industrial, including infrastructure-related land cover.

There are 10 major vegetation communities/land cover types within the City (Western Riverside County Regional Conservation Authority [WRCRCA] 2021a), urban/developed (76 percent), disturbed (1 percent), agriculture (7 percent), nonnative grassland (6 percent), coastal scrub (7 percent), riparian scrub/woodland/forest (2 percent), woodlands/forest (1 percent), marsh (< 1 percent), rock outcrops (< 1 percent), and open water/riverine (< 1 percent).

Discussion

a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

Potentially Significant Impact. The City contains native riparian, grassland, and scrubland habitats (see Impact b, below, for details) as well as conservations lands (see Impact f, below) that have a potential to support special-status plant and animal species. Based on a search of the California Natural Diversity Database (California Department of Fish and Wildlife [CDFW] 2021); California Native Plant Society (CNPS) Inventory of Rare, Threatened, and Endangered Plants of California (CNPS 2021); and U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation database (USFWS 2021a), 44 special-status plant species and 43 special-status wildlife species occur within the U.S. Geological Survey (USGS) 7.5-minute topographic quadrangles in which the proposed Project occurs (Corona North, Riverside West, Riverside East, Fontana, San Bernardino South, and Steele Peak). Twenty-eight of these species are federally and/or state-listed species. If project work covered under the Housing Element update (e.g., future housing and mixed-use development) or Public Safety Element update (e.g., public infrastructure, wildfire hazard control and prevention measures) is performed within areas where any of these species are present, or if Zoning Code and specific plan amendments are made where these species occur, then direct impacts (e.g., permanent removal of habitat, injury and mortality from construction-related activities) and/or indirect impacts (temporary disturbance of habitat; project-related disturbances from noise, night

lighting, and increased human presence; degradation of habitat from increased dust, trash, erosion, and sedimentation; introduction of invasive species) could occur as a result of project-related construction and operational activities.

Impacts could be potentially significant and may require mitigation. The proposed Project's potential to adversely affect species identified as a candidate, sensitive, or special-status species in local or regional policies/regulations will be analyzed, and mitigation will be developed, in the forthcoming EIR.

b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

Potentially Significant Impact. Seven vegetation communities classified by CDFW as sensitive natural communities are reported to occur within the USGS Corona North, Riverside West, Riverside East, Fontana, San Bernardino South, and Steele Peak 7.5-minute topographic quadrangles, based on the record search (CDFW 2021). Based on an analysis of aerial photographs of the City, as well as Classification and Assessment with Landsat of Visible Ecological Groupings (CalVeg) and Western Riverside County Multiple Species Habitat Conservation Plan (WRC MSHCP) vegetation layers, sensitive natural communities are present within the City, including coastal scrub, riparian scrub/woodland/forest, woodlands/forests, marsh, and open water/riverine. USFWS-designated critical habitat for least Bell's vireo and Santa Ana sucker is present within the City along the Santa Ana River corridor in the northern portion of the City (USFWS 2021b). All critical habitat within the City is along the Santa Ana River; no critical habitat is present within the rest of the City. Because the proposed Project would avoid placing development sites in areas containing greenbelts, arroyos and canyons, and other areas of high biological sensitivity, it is anticipated that most sensitive natural communities would be avoided under the proposed Project, although small patches of sensitive natural communities may be affected (e.g., riparian scrub habitat in ditches and channels). However, Public Safety Element updates (e.g., wildfire hazard control and prevention measures) could affect sensitive natural communities should vegetation clearing and/or management be required.

Impacts could be potentially significant and may require mitigation. The proposed Project's potential to adversely affect riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the CDFW or USFWS will be analyzed, and mitigation will be developed in the forthcoming EIR.

c. Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marshes, vernal pools, coastal wetlands, etc.) through direct removal, filling, hydrological interruption, or other means?

Potentially Significant Impact. Federally protected wetlands and non-wetlands, as well as vegetated and unvegetated state streambeds, are present within the City. Water feature types depicted in the USFWS National Wetland Institute database present within the City include freshwater emergent wetland, freshwater forested/shrub wetland, freshwater pond, riverine, and lake (USFWS 2021c). Ditches and channels are also present throughout the City. Should project work covered under the Housing Element update (e.g., future housing and mixed-use development) or Public Safety Element update (e.g., public infrastructure, wildfire hazard control, and prevention measures) be performed, or if Zoning Code and specific plan amendments are made in areas containing or adjacent to any protected aquatic resources, then direct impacts (e.g., permanent loss of features, alteration of hydrological conditions, diminished level of biological functions and values) and indirect impacts (e.g., introduction of non-native species, erosion, sedimentation, chemical spills, alteration of downstream hydrological conditions) could occur.

The proposed Project's potential to affect state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means will be analyzed, and mitigation will be developed in the forthcoming EIR.

d. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Potentially Significant Impact. Wildlife corridors are present within the City, particularly in the northern portion of the City along the Santa Ana River corridor, which provides a long, linear stretch of open space with native habitats for regional wildlife movement and migration (including many species of fish, amphibians, reptiles, birds, and small to medium-sized mammals), and in the southern portion in the open foothill areas containing arroyos and canyons, which connect to other open areas to the northeast and southwest. The portions of the Santa Ana River within the northern portion of the City contain migratory passages and nursery sites for native fish. Nesting bird habitat is present throughout the City, within the open lands as well as urban areas. Because the proposed Project would avoid placing development sites in areas containing greenbelts, arroyos and canyons, and other sensitive biological resources (e.g., the Santa Ana River), it is anticipated that major wildlife movement corridors and native fish nursery sites would not be affected under the Housing Element update and Zoning Code and specific plan amendments, although smaller wildlife movement corridors may be affected (e.g., ditches and channels providing movement through urban areas). However, Public Safety Element updates (e.g., wildfire hazard control and prevention measures) could affect wildlife corridors should vegetation clearing and/or management in open areas be required. Nesting birds in both urban areas and open lands could be affected during construction and operations-related maintenance activities (e.g., vegetation clearing, tree trimming) resulting from development associated with the proposed Project.

The proposed Project's potential to interfere with the movement of native resident or migratory wildlife species, interfere with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites will be analyzed, and mitigation will be developed in the forthcoming EIR.

e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Less-than-Significant Impact. The City of Riverside does not have an adopted Tree Protection Ordinance. Construction and/or operational activities associated with the proposed Project could require pruning or tree removal during vegetation clearing and grading and other construction activities. Operational activities designed to keep housing and public safety areas landscaped, clear, and accessible would require vegetation management, which could involve both tree-trimming and/or tree removal. The trimming or removal of trees would be subject to the same local tree policies and ordinances, regardless of whether the work was being performed as a part of construction or operational activities.

Any proposed development activity within the City's boundaries that proposes planting, pruning, or removing a street tree within a city right-of-way must follow the requirements of the *Urban Forestry Policy Manual*. The manual documents guidelines for the planting, pruning, preservation, and removal of all trees in city rights-of-way. The specifications in the manual are based on national standards for tree care established by the International Society of Arboriculture, the National Arborists Association, and the American National Standards Institute.

In addition, any new development associated with proposed Project within the City would be required to comply with the RMC and County WRC MSHCP mitigation fees, and the Stephens' Kangaroo Rat Habitat Conservation Plan (SKR HCP) fee assessment area and mitigation fees. Any future applicant of any proposed development within MSHCP/HCP plan boundaries would be required to pay a fee and, i Title 16 of the RMC provides for payment of development fees to protect biological resources where applicable.

The City is in the plan area for the Upper Santa Ana River HCP, which is currently in development. Species like least Bell's vireo, Santa Ana sucker, Santa Ana River woolly-star, burrowing owl, and 18 others are covered in this HCP (Upper Santa Ana River Sustainable Resources Alliance 2021). Also, the General Plan 2025 includes policies¹ to ensure that future development would not conflict with any local policies or ordinances that protect biological resources.

With Project compliance with City policies and ordinances, it is anticipated that any construction and/or operations-related activities associated with the proposed Project would have a less-than-significant impact, either directly or through habitat modifications, on any local policies or ordinances that protect biological resources.

f. Conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan?

Potentially Significant Impact. The City overlaps two adopted MSHCPs/HCPs, the WRC MSHCP and the SKR HCP. The entire City is within the boundaries of the WRC MSHCP; the southeastern portion of the City occurs within the boundaries of the SKR HCP plan area, including lands on the SKR HCP Sycamore Canyon Core Reserve area. Should any activity (e.g., public infrastructure; public infrastructure, wildlife hazard control, and management measures under the Public Safety Element update) occur within conservation lands under these conservation plans, then the proposed Project would have the potential to conflict with the provisions outlined in these MSHCPs/HCPs. Project-related construction and/or operation activities may affect lands within the WRC MSHCP conservation plan area to fulfill the conservation objectives of the overall reserve assembly, including habitat management units, area plans and sub-units, criteria cells, public/quasi-public conserved lands, cores and linkages, and species survey areas. In addition, the proposed Project may affect WRC MSHCP covered species and riparian/riverine resources (e.g., riparian habitats, open waters, wetlands, and riparian species). Project-related construction and/or operational activities may also affect SKR HCP lands, including designated core reserves, plan fee areas, and suitable and occupied habitat for Stephens' kangaroo rat.

The proposed Project's potential to conflict with the provisions of the WRC MSHCP and SKR HCP will be analyzed, and mitigation will be developed in the forthcoming EIR.

¹ Open Space Element, Policies OS-1.1–O.S-1.5, OS-1.8–OS-1.15, OS-2.2, OS-2.4, OS-4.2, OS-4.3, OS-5.1–OS-5.4, OS-6.1–OS-6.4, OS-7.3; Air Quality Element, Policy AQ-1.9; Land Use Element, Policies LU-2.2, LU-3.1, LU-3.2, LU-4.1–LU-4.5, LU-5.1–LU-5.6, LU-7.1–LU-7.4, and LU-13.2; and Circulation and Community Mobility Element, Policies CCM-4.1–CCM-4.4).

V. Cultural Resources

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Would the proposed Project:				
a. Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Disturb any human remains, including those interred outside of dedicated cemeteries?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Affected Environment

The City is in the Santa Ana River Watershed, within the larger Jurupa Valley. Numerous archaeological studies conducted over the years have identified many archaeological sites in the region. Archaeological resource types in the region vary widely in size and intensity, from individual isolated artifacts to small scatters of artifacts as well as large, dense accumulations of artifacts associated with long-term human occupation. Archaeological materials can range in age from the prehistoric to the historical period and be associated with both prehistoric and historical-period Native American as well as historical-period non-Native American occupation of the region. Archaeological sites such as prehistoric artifact scatters, rock art, and milling stations are common; larger village sites have also been documented. Some examples of potential historical-period sites include refuse scatters, water conveyance features, and infrastructure; remnants of farms, ranches, and homesteads; and early residential structures and lots.

The Cultural Resources Ordinance (Title 20 of the RMC) recognizes four types of designations: Landmark, Structure of Merit, Historic District, and Neighborhood Conservation Area (NCA). The City has conducted several historical resource surveys, designated individually significant historical resources and historic districts, and identified potentially significant individual resources and historic districts.

Named “Riverside” in 1870 by a colony of agriculturalists/developers, Riverside’s early built development included an irrigation network, including the City Landmark Highgrove Drop and Upper Riverside Canal (1870–1886), and the extension of rail lines, all of which supported a nationally prominent citrus industry. Historical resources could also be associated with development of the Riverside Land and Irrigation Company, construction of transportation infrastructure, and construction of numerous public works, such as parks, a library, schools, hotels, and other private and municipal buildings, in the 1920s. They could also include buildings associated with residential and commercial development from the post–World War II period and educational facilities associated with the opening of the University of California, Riverside (1961) and La Sierra University (1964).

Discussion

a. Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?

Potentially Significant Impact. Under CEQA, historical resources include intact buildings or structures listed in or eligible for listing in the California Register of Historical Resources (CRHR), locally designated by a municipality, or included in a local survey that meets the requirements of PRC 5024.1(g). California Historical Landmark (CHL) No. 770 and all consecutively numbered CHLs following CHL No. 770 also qualify as historical resources under CEQA. Development throughout the City is subject to Title 20 (Cultural Resources) of the RMC. Per Title 20, a Certificate of Appropriateness is required for the rehabilitation, alteration, demolition, etc., “of any designated Cultural Resource, eligible Cultural Resource, any element in a geographic Historic District (contributing and non-contributing), or, a contributing feature or contributor to a Neighborhood Conservation Area.” The approval or denial of a Certificate of Appropriateness is based on several factors, including the proposed Project’s consistency with the Secretary of the Interior’s Standards for the Treatment of Historic Properties and City-established design guidelines.

Future development associated with the proposed Project would occur on opportunity sites, which are found throughout the City. Preliminarily identified opportunity sites are located in several existing historic districts, such as the Mission Inn Historic District, and in eligible historic districts, such as the Citrus Thematic Industrial area. Unidentified and unevaluated buildings more than 45 years old may be identified as opportunity sites. The proposed Project could result in a significant impact on a historical resource, per State CEQA Guidelines Section 15064.5. The proposed Project’s potential impacts on historical resources will be analyzed, and mitigation will be developed in the forthcoming EIR.

b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?

Potentially Significant Impact. State CEQA Guidelines Section 15064.5 defines an archaeological resource as any artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that the resource:

- Contains information needed to answer important scientific research questions and for which there is a demonstrable public interest;
- Has a special and quality such as being the oldest of its type or the best available example of its type; or
- Is directly associated with a scientifically recognized important prehistoric or historic event or person.

In most situations, resources that meet the definition of a unique archaeological resource also meet the definition of historical resource. As a result, it is current professional practice to evaluate cultural resources for significance, based on their eligibility for listing in the CRHR. Even without a formal determination of significance and nomination for listing in the CRHR, the lead agency can determine that a resource is potentially eligible for such listing to aid in determining whether a significant impact would occur. The fact that a resource is not listed in the CRHR, or has not been determined eligible for such listing, and not included in a local register of historic resources does not preclude an agency from determining that a resource may be a historical resource for the purposes of CEQA.

The updated Housing Element must show the exact locations where future development could occur and identify the potential number of homes or other potential development that can be built at those locations. In identifying opportunity sites, attempts have been made to eliminate locations with high archaeological and paleontological sensitivity. Vacant lots, underutilized areas, developed areas with unused space, areas near public transit, and areas near commercial or industrial buildings have been identified as opportunity sites. It is possible that new infrastructure for public safety could also be located in these areas. These locations have the potential to contain as-yet unknown or buried archaeological materials and sites. As such, development facilitated by the proposed Project has the potential to cause an adverse change in the significance of an archaeological resource, pursuant to Section 15064.5 of the State CEQA Guidelines and will be analyzed in the forthcoming EIR.

c. Disturb any human remains, including those interred outside of dedicated cemeteries?

Less-than-Significant Impact. State law, including Health and Safety Code Section 7050.5 and PRC Section 5097.98, provides guidance regarding how sites containing human remains must be treated. PRC Section 5097 specifies the procedures to be followed in the event of the unexpected discovery of human remains on nonfederal public lands. PRC Section 5097.5 considers it a misdemeanor to knowingly and willfully excavate, remove, destroy, injure, or deface any historic or prehistoric ruins; burial grounds; archaeological or vertebrate paleontological site, including fossilized footprints; inscriptions made by human agency; rock art; or any other archaeological, paleontological, or historical feature situated on public lands, except with the express permission of the public agency having jurisdiction over the lands. The disposition of Native American burials falls within the jurisdiction of the Native American Heritage Commission (NAHC), which prohibits willfully damaging any historic, archaeological, or vertebrate paleontological site or feature on public lands (PRC Section 5097.9). PRC Section 5097.98 stipulates that whenever the NAHC receives notification of a discovery of Native American human remains from the county coroner, it shall immediately notify those people it believes to be the most likely descendants of the deceased Native American. The descendants may inspect the site of discovery and make recommendations on the removal or reburial of the remains.

Health and Safety Code Section 7050.5 addresses the protection of human remains discovered in any location other than a dedicated cemetery and makes it a misdemeanor for any person who knowingly mutilates or disinters, wantonly disturbs, or willfully removes any human remains in or from any location other than a dedicated cemetery without authority of law, except as provided in PRC Section 5097.99. It further states that in the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains until the coroner of the county in which the human remains are discovered has determined that the remains are not subject to the provisions concerning investigation of the circumstances, manner, and cause of any death and the recommendations concerning the treatment and disposition of the human remains have been made to the person responsible for the excavation, or to his or her authorized representative, in the manner provided in PRC Section 5097.98. If the coroner determines that the remains are not subject to his or her authority and if the coroner recognizes the human remains to be those of a Native American, or has reason to believe that they are those of a Native American, he or she shall contact, by telephone within 24 hours, the NAHC.

Because previous archaeological studies have identified the presence of Native American human remains within the City and adjacent areas, development projects proposed on vacant lands or on other opportunity sites have the potential to discover previously unknown Native American human remains. As such, development facilitated by the proposed Project has the potential to disturb human remains, including those outside dedicated cemeteries. However, if human remains should be discovered on vacant lands or other opportunity sites, however unlikely, they would be treated in accordance with applicable codes and regulations, notably PRC Section 5097 and Health and Safety Code Section 7050.5, which would ensure that impacts would be less than significant.

VI. Energy

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Would the proposed Project:				
a. Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Affected Environment

Within the City is a broad array of land uses, ranging from high-density residential and commercial to semi-rural and agricultural. The proposed Project, through facilitation of potential development projects, may result in a commitment of energy resources in the form of diesel fuel, gasoline, and electricity during construction and operation. Energy refers to the power supply required for implementation of the proposed Project within the City. Power is supplied primarily by non-renewable sources, such as coal and natural gas, as well as nuclear power (City of Riverside 2012). This discussion focuses on electricity and natural gas as energy sources.

Electricity Provider

Within Riverside, most of the electric utility is owned by the City's Riverside Public Utilities (RPU) which transmits and distributes electricity to a 90-square-mile territory that includes the majority of the City (RPU 2019a) as well as some areas in the City's SOI. In 2019, the service area population was 328,042, with a peak energy demand of 640 megawatts. Currently, all of RPU's imported energy comes through a single power connection from Southern California Edison's (SCE's) Vista Substation, located in Grand Terrace (RPU 2021). Through that connection, a maximum of 557 megawatts can reach the City. Within Riverside, more than 900 miles of underground distribution lines, 510 miles of overhead distribution lines, 22,840 power poles, and 14 substations service each neighborhood (RPU 2019b). RPU has acquired permission to provide a second connection to the state power transmission grid through SCE. In addition, a second substation will improve distribution (RPU 2021). Southern California Edison generally serves customers outside of the City limits (City of Riverside 2012).

Natural Gas Provider

Natural gas is provided by the Southern California Gas Company. The Southern California Gas Company provides natural gas to 21.8 million customers through 5.9 million meters in more than 500 communities, encompassing a service area of approximately 24,000 square miles throughout central and Southern California (Southern California Gas Company 2020). Natural gas sales from the Southern California Gas Company in 2019 totaled 84,654,000 megawatt-hours (Edison International and SCE 2019).

Regulations

The California Building Standards Code (California Code of Regulations, Title 24), or CBSC, is the minimum standard established in law for the design and construction of buildings and structures in California. The most recent edition of the CBSC was published on January 1, 2020. Within the

CBCS, the California Building Code (CBC) contains general building design and construction requirements related to fire and life safety, structural safety, and access compliance (California Code of Regulations, Title 24, Part 2). The CBC includes the mandatory California Green Building Standards Code (CALGreen) for residential and nonresidential structures (California Code of Regulations, Title 24, Part 11). The most recent version of CALGreen includes the 2019 Building Energy Efficiency Standards (California Energy Commission 2019). These standards focus on four key areas: smart residential photovoltaic systems, updated thermal envelope standards (preventing heat transfer from the interior to exterior and vice versa), residential and nonresidential ventilation requirements, and non-residential lighting requirements (California Energy Commission 2019).

RPU developed the Utility 2.0 Strategic Plan, a 10-year plan that calls for sustainable consumption of water and electricity resources. The strategic plan identifies goals, strategies, objectives, and key performance indicators to guide the allocation of resources and management of water and electricity assets (City of Riverside 2017). The Utility 2.0 Strategic Plan's key goals concern reliability and resiliency, affordability, sustainability, customer experience, and operational excellence. To achieve compliance with statewide targets related to water and electricity efficiency, renewable resources, and greenhouse gas (GHG) emissions, the City has put into effect local policy provisions. All standards presented in the Utility 2.0 Strategic Plan respond to the needs of development by achieving more efficient and sustainable uses for resources.

Under California's Renewables Portfolio Standard (RPS) program, all retail sellers of electricity in the state must meet established renewable procurement targets in their retail electricity supply. The renewable energy sources used by retail sellers of electricity include wind, solar photovoltaic (PV), solar thermal, hydroelectricity, geothermal, and bioenergy. The RPS program was initially established in 2002 by Senate Bill (SB) 1078, which required 20 percent of electricity retail sales to be served by renewable resources by 2017. The program was subsequently accelerated in 2015 with SB 350, which mandated a 50 percent RPS by 2030 and included interim annual RPS targets with 3-year compliance periods that required 65 percent of RPS procurement to be derived from long-term contracts of 10 or more years. In 2018, SB 100 was signed into law, which increased the RPS to (1) 50 percent of retail sales by 2026 (moved up by 4 years from SB 350), (2) 60 percent of retail sales by 2030, and (3) 100 percent of retail sales by 2045 (with a carbon-free goal for 2045). RPU is required to meet the renewable procurement targets under the RPS program.

Discussion

a. Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Less-than-Significant Impact. The proposed Project would not directly result in an impact on energy resources. In particular, the Housing Element update is strictly a policy document that contains goals, policies, and actions aimed at accommodating up to 24,000 new housing units by 2029 to meet the RHNA allocation; yet the Housing Element itself does not provide any entitlements for the construction of these units. The proposed Project would allow up to 30,190 total units to be built, including the 24,000 units required by the Regional Housing Needs Allocation (RHNA). The Housing Element update encourages development in areas where the density can be supported by existing infrastructure. Opportunity sites have been identified for accommodation of future and mixed-use development to meet the housing demand. These opportunity sites are identified in Figures 5 through 18 appended to the NOP. In addition, although residential dwellings would be the largest type of development in the City resulting from the Housing Element update, implementation of proposed zoning code and specific plan amendments to allow fulfillment of the City's RHNA would also facilitate the development of housing and mixed-uses as well, including some lower-level

commercial/retail, office, and potentially live/work uses. Areas proposed for rezoning are identified in Figures 12 through 18. It is anticipated that approximately 11,501,959 square feet of non-residential development could be accommodated in the proposed mixed-use zones under the proposed Project. The Public Safety Element could also facilitate development of public infrastructure.

Although the Housing Element update and Zoning Code and Specific Plan amendments themselves would not directly result in increased energy use, future developments in the City could result in an increased consumption of energy resources. However, construction and operation of new housing, public infrastructure, and mixed-use developments in the City would be required to comply with all applicable state, regional and local plans, ordinances, and regulations related to energy efficiency.

Construction Energy Use

Future housing, public infrastructure, and mixed-use developments throughout the City facilitated through project implementation would meet the residents' varied housing needs. These future developments would occur on parcels that are currently vacant or under-utilized as well as fully improved. Such development would result in construction-related energy demand and consumption related to the use of transportation fuels such as gasoline and diesel for construction workers' vehicle trips, hauling and material delivery, and operation of off-road construction equipment. In addition, diesel-fueled portable generators may be necessary to meet additional electricity demands from temporary on-site lighting, welding, and supplying energy to areas of the construction site where electricity cannot be obtained through a hookup to the existing grid.

Unlike an individual development project for which project-specific construction information is available, it is impractical to quantify construction-related energy consumption for all future development that could contribute incrementally to construction emissions throughout the City. Construction energy consumption would be evaluated for specific future housing and mixed-use developments as future development applications are processed. The amount of fuel consumed by these construction activities for each development would vary substantially, depending on the level of activity, length of the construction period, specific construction operations, types of equipment, and number of personnel. However, the construction of future housing, public infrastructure, and mixed-use developments would involve construction activities typical of most land use developments within the City. None of these future developments would be expected to require an extraordinary amount of energy consumption during construction, as may occur with large industrial facilities such as new power plants or large infrastructure facilities such as dams. Because construction activities are considered to be relatively short-term and cease once construction of an individual project is complete, they would represent a relatively short demand on local and regional fuel supplies and would be easily accommodated. The operation of construction equipment for future housing, public infrastructure, and mixed-use developments would also be required to comply with the latest U.S. Environmental Protection Agency (EPA) and CARB engine emissions standards. These emissions standards require highly efficient combustion systems that maximize fuel efficiency and reduce unnecessary fuel consumption. Because of increasing transportation costs and fuel prices, contractors and owners have a strong financial incentive to avoid wasteful, inefficient, and unnecessary consumption of energy during construction. Overall, construction fuel consumption associated with future housing, public infrastructure, and mixed-use developments in the City would not be any more inefficient, wasteful, or unnecessary than other similar land use development projects of this nature. Impacts would be less than significant.

Operational Energy Use

Energy use associated with operation of future housing, public infrastructure, and mixed-use developments in the City facilitated by the proposed Project would include electricity for interior and exterior building lighting; heating, ventilation, and air-conditioning (HVAC); stoves and other kitchen appliances; cleaning equipment; electronic systems; security systems; and more. Maintenance activities during operations, such as landscape maintenance, could involve the use of electric or gas-powered equipment. However, future developments would be required to comply with the applicable Title 24 Building Energy Efficiency Standards, which have been established for both residential and non-residential uses to provide minimum efficiency standards related to various building features, including appliances, water and space heating and cooling, building insulation and roofing, and lighting. Implementation of the Title 24 standards significantly reduces energy usage. The electricity provider, RPU, is subject to California's RPS. The RPS requires investor-owned utilities, electric service providers, and community choice aggregators to increase procurement from eligible renewable energy resources to 33 percent of total procurement by 2020 and to 60 percent of total procurement by 2030. Renewable energy is generally defined as energy that comes from resources that are naturally replenished within a human timescale, such as sunlight, wind, tides, waves, and geothermal heat. The increase in reliance of such energy resources further ensures future development facilitated by the proposed Project would not result in the waste of the finite energy resources.

In addition to on-site energy uses, future development facilitated by the proposed Project would also result in transportation energy use associated with vehicle trips generated by the future residential and mixed-use developments. Pursuant to the Federal Energy Policy and Conservation Act of 1975, the National Highway Traffic and Safety Administration (NHTSA) is responsible for establishing additional vehicle fuel standards and revising existing standards. Vehicles associated with future residential and mixed-use developments facilitated by the proposed Project would be subject to future compliance with federal fuel economy standards. In addition, project implementation would accommodate future housing development throughout the City to meet the residents' varied housing needs. Future housing, public infrastructure, and mixed-use developments in the City facilitated by the proposed Project would not result in any unusual characteristics that would result in excessive operational fuel consumption. Some of these future developments would occur on parcels that are currently vacant or under-utilized in the City, which could reduce vehicle miles traveled by future residents where their housing is located within walking distance to commercial and other community-serving uses. The new mixed-use developments, by their nature, would also serve to reduce dependency on automobiles and the number of vehicle miles traveled. Fuel consumption associated with individual development-related vehicle trips would not be considered inefficient, wasteful, or unnecessary in comparison to other similar developments in the region.

Overall, future housing, public infrastructure, and mixed-use development activities would adhere to all federal, state, and local requirements for energy efficiency, including the Title 24 standards, and would not result in a substantial increase in demand or transmission service, resulting in the need for new or expanded sources of energy supply or new or expanded energy delivery systems or infrastructure. Residential, public infrastructure, and mixed-use development facilitated by the proposed Project would not result in a potentially significant environmental impact due to a wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation. A less-than-significant impact would occur.

b. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Less-than-Significant Impact. As discussed above, energy consumption would result from construction and operation of future residential and some non-residential (i.e., mixed use, infrastructure) uses in the City that would be facilitated by the proposed Project. All future residential and mixed-use developments, facilitated by the proposed Project, would be required to comply with the latest requirements of the CBC, which contains the mandatory CALGreen Standards, along with the Building Energy Efficiency Standards. As proposed, all future housing, public infrastructure, and mixed-use development projects would be required to obtain appropriate building permits and meet all current building standards, including, but not limited to, the CBC, California Electrical Code, and California Energy Code (Title 24).

California Green Building Standards Code

As discussed previously in the *Affected Environment*, the CBSC (California Code of Regulations, Title 24) is the minimum standard established in law for the design and construction of buildings and structures in California. Within the CBSC, the CBC contains the mandatory CALGreen standards for residential and nonresidential structures, including the 2019 Building Energy Efficiency Standards.

The requirements of CALGreen include, but are not limited to, the following measures:

- Compliance with relevant regulations related to future installation of electric vehicle charging infrastructure in residential and non-residential structures;
- Mandatory periodic inspections of energy systems (i.e., furnace, air conditioner, mechanical equipment) for nonresidential buildings of more than 10,000 square feet to ensure that all are working at their maximum capacity according to their design efficiencies;
- Mandatory use of low-pollutant-emitting interior finish materials such as paints, carpet, vinyl flooring, and particle board; and
- For some single-family and low-rise residential development developed after January 1, 2020, mandatory on-site solar energy systems capable of producing 100 percent of the electricity demand created by the residence(s). Certain residential developments, including those developments that are subject to substantial shading, rendering the use of on-site solar photovoltaic systems infeasible, are exempted from the foregoing requirement.

Building Energy Efficiency Standards

The 2019 Building Energy-Efficiency Standards represent a portion of the CBSC, which expands upon energy-efficiency measures from the 2016 Building Energy-Efficiency Standards. The 2019 Building Energy Efficiency Standards are in effect for building permit applications submitted after January 1, 2020.

The 2019 standards provide for additional efficiency improvements beyond the current 2016 standards. Non-residential buildings built in compliance with the 2019 standards are anticipated to use approximately 30 percent less energy compared with buildings built in compliance with the 2016 standards, primarily due to lighting upgrades (California Energy Commission 2019).

For residences, compliance with the 2019 standards will result in homes using approximately 7 percent less energy because of energy efficiency measures compared with homes built under the 2016 standards. Once rooftop solar electricity generation is factored in, homes built under the 2019 standards will use approximately 53 percent less energy than those built under the 2016 standards (California Energy Commission 2018).

Future development would be subject to all relevant provisions of the most recent update to the CBSC, including the Building Energy Efficiency Standards. Adherence to the most recent CALGreen Standards and Building Energy Efficiency Standards would ensure that future residential and mixed-use developments identified on opportunity sites would consume energy efficiently. Required compliance with the CBSC would ensure that the building energy use associated with such future development would not be wasteful, inefficient, or unnecessary. In addition, electricity supplied to future residences and mixed-use developments by RPU would comply with the state's RPS, which requires investor-owned utilities, electric service providers, and community choice aggregators to increase procurement from eligible renewable energy resources to 33 percent of total procurement by 2020 and 60 percent by 2030. As such, a portion of the energy consumed during operations would originate from renewable sources.

Given that future development facilitated by the proposed Project would be subject to compliance with all federal, state, and local requirements for energy efficiency, project implementation would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency, and a less-than-significant impact would result.

VII. Geology, Soils, and Paleontological Resources

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Would the proposed Project:				
a. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Seismically related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Be located on a geologic unit or soil that is unstable or that would become unstable as a result of the proposed Project and potentially result in an on-site or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems in areas where sewers are not available for the disposal of wastewater?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Affected Environment

Physiography

The City is situated north of the Peninsular Ranges and south of the Transverse Range, with the San Bernardino Mountains to the north and the San Jacinto Mountains to the east. Elevations in the City range from approximately 700 feet amsl near the Santa Ana River to almost 1,400 feet amsl west of La Sierra. Land within the City is mostly flat, with natural slopes of less than 15 percent, although some slopes of 25 percent are found in the eastern and western portions of the City. Steeper slopes exist outside the City but within its SOI (Albert A. Webb Associates 2007).

Subsurface Conditions

The City is generally underlain with subsurface deposits dating from the Mesozoic period, consisting of granite, adamellite, Mesozoic granitic rock, granodiorite, and Mesozoic basic intrusive rocks. Alluvium deposits date from the Quaternary (Albert A. Webb Associates 2007).

Seismicity and Seismic Hazards

Primary Seismic Hazards

Surface Fault Rupture

The City lies in a seismically active area of the United States; however, no Alquist-Priolo Fault Zones or active faults has been mapped within the General Plan area (City of Riverside 2007). As shown in Figure 7-1 of the GP 2025, the active faults include the San Andreas fault, the San Jacinto fault, and the Elsinore fault. In a seismically active area, the potential of future faulting occurring in areas where faults have not been mapped exists; however, the risk of surface fault rupture in the City is considered low.

Seismic Ground Shaking

Ground shaking is the most widespread hazardous phenomenon associated with seismic activity, and the City is located within a seismically active area. Several known faults in the region have the potential to generate significant seismic ground shaking. The San Andreas fault is within 11 miles of downtown and capable of producing an 8.3 magnitude (M) earthquake, the San Jacinto fault is approximately 7 miles from downtown and capable of producing a 7.0 M earthquake, and the Elsinore fault is within 13 miles of downtown and capable of producing a 6.0 M earthquake (City of Riverside 2007). The risk of seismic ground shaking in the area is considered high.

Secondary Seismic Hazards

Liquefaction

Liquefaction occurs when saturated soils lose cohesion, strength, and stiffness with applied shaking, such as that from an earthquake. The lack of cohesion causes solid soil to behave like a liquid, resulting in ground failure. When a load such as a structure is placed on ground that is subject to liquefaction, ground failure can result in the structure sinking and soil being displaced. Ground failure can take on many forms, including flow failures, lateral spreading, lowering of the ground surface, ground settlement, loss of bearing strength, ground fissures, and sand boils. Liquefaction within subsurface layers, which can occur during ground shaking associated with an earthquake, can also result in ground settlement.

The majority of the City has not been evaluated for liquefaction by the California Geological Survey (California Geological Survey 2021). However, soils prone to liquefaction are located throughout the City, particularly along watercourses, arroyos, and the Santa Ana River. Riverside has four primary liquefaction areas, the area along the Santa Ana River, a broad area south and west of Riverside Municipal Airport, a portion in western Riverside spanning La Sierra Avenue, and a smaller area along the City's southern boundary. Most of the land in the SOI is not susceptible to liquefaction (City of Riverside 2007).

Lateral Spreading

Lateral spreading is a phenomenon in which a surficial soil displaces along a shear zone that formed within an underlying liquefied layer. The surficial blocks are transported downslope or in the direction of a free face, such as a bay or creek, by earthquake and gravitational forces. Lateral spreading is generally the most pervasive and damaging type of liquefaction-induced ground failure generated by earthquakes. In general, for lateral spreading to occur, soils must consist of saturated, cohesionless sandy sediments in an area where there is a high groundwater table and an open face such as a cliff or streambank. The risk of lateral spreading in the City is highest near the Santa Ana River and along arroyos and watercourses.

Expansive Soils and Weak Soils

Expansive soils are characterized by their ability to undergo significant volume changes (i.e., shrink and swell) due to variations in moisture content. Expansive soils are typically very fine grained and have a high to very high percentage of clay. They can damage structures and buried utilities and increase maintenance requirements. The presence of expansive soils is typically associated with high clay content. Generally, future development in areas with expansive soils may require special building foundations or grade preparation, such as the removal of problematic soils and replacement with engineered soils. However, the relative strength or weakness of alluvial soils also depends on the combination of clay and sand.

Soils considered to have a high shrink-swell potential occur primarily west of Riverside Municipal Airport and within the Lake Mathews drainage area but can be found throughout the City (City of Riverside 2007). The highest risk of impacts resulting from expansive soils are expected to be near the airport and the Lake Mathews drainage area, though other areas may be affected as well.

Weak soils can compress or collapse under the weight of buildings and fill, causing settlement relative to the thickness of the weak soil. Usually the thickness of weak soil varies, and differential settlement does occur. Some weak soils, specifically unconsolidated settlements, can amplify shaking during an earthquake and, when saturated, can be susceptible to liquefaction.

Soil associations in the City are generally well-drained sandy loams that are moderately deep; however, weak soils have been found in the north western portion of the City, in the area surrounding State Route 91 (Albert A. Webb Associates 2007). The highest risk of impact resulting from weak soils is expected to be in the northeastern part of the City, though other areas may be affected as well.

Erodible Soils

Soils erosion is a natural process by which soil particles are removed by wind, water, or gravity. Different soils will have different susceptibilities to erosion, depending on particle size, gradation, organic structure, and permeability. In addition, topography, including the length and steepness of a slope, and the presence of vegetative cover influence a soil's susceptibility to erosion. Soils containing a high percentage of silt or very fine clay are generally the most erodible.

The City is underlain by areas that are susceptible to erosion. Soils with high potential for erosion are particularly prevalent in the northwest portion of the City, near Arlington Avenue; the southeast portion of the City, near Gentian Avenue; and south of Lake Mathews (Albert A. Webb Associates 2007).

Landslides

Landslides occur when the stability of a slope changes from a stable to an unstable condition. The stability of a slope is affected by the following primary factors: inclination, material type, moisture content, orientation of layering, and vegetative cover. In general, steeper slopes are less stable than more gently inclined ones. Although most of the City is relatively flat, the western and northeastern portions of the City are susceptible to landslides and rockfalls (City of Riverside 2007).

Paleontological Resources

Fossils (paleontological resources) preserve information about ancient animals and plants (University of California Museum of Paleontology n.d.). There are two types of fossils: body fossils (remains of an organism) and trace fossils (e.g., footprints, burrows, trails). Fossils can add to the scientific record by providing information about the anatomy of an organism and clues to its life processes, the successive evolutionary evolution of organisms, and successive colonization of habitats. Fossils are a nonrenewable resource; that is, once destroyed, a fossil cannot be replaced. Fossils represent irreplaceable evidence of past life on the planet (National Park Service 2020).

Fossils occur within geologic units. A geologic unit is a volume of rock or sediment of identifiable origin with an age range that is defined by distinctive and dominant features. Generally, geologic units of middle Holocene age (last approximately 5,000 years) are too recent to yield significant fossils, but geologic units in certain older depositional environments have the potential to yield significant fossils (Society of Vertebrate Paleontology 2010). *Significant fossils* (or sensitive paleontological resources) are defined by the Society of Vertebrate Paleontology (2010) as being “identifiable vertebrate fossils, large or small, uncommon invertebrate, plant, and trace fossils, and other data” that provide information valuable to the scientific community. Geologic units have varying potential to contain significant fossils, called *paleontological sensitivity*.

The following analysis is based on information presented in a report from the California Museum of Paleontology describing fossils retrieved near the project area, a report prepared for RPU regarding the study area (Powers Engineers 2010), and the County of Riverside Paleontological Sensitivity Model. The analysis evaluates the likelihood of significant paleontological resources being present in geologic units with high paleontological sensitivity in the study area.

Mapping in the study area shows surficial deposits as Dune sand, Holocene alluvium, Pleistocene nonmarine deposits, and Mesozoic granitic rocks (Rogers 1965, 1967; Power Engineers and Deméré 2010). The granite rocks ring the lower elevations of the City (Power Engineers 2010). Paleozoic and Mesozoic metamorphic rock, late Mesozoic plutonic rock, and Cretaceous and Cenozoic sedimentary rock underlie the surficial units. Sedimentary geologic units underlying the study area that are older than the Holocene (i.e., Dune sand and Holocene alluvium) have the potential to contain significant paleontological resources.

Significant paleontological resources exist in many areas in Southern California, including in Riverside County near the City. According to the investigation executed by the Natural History Museum of Los Angeles County, several vertebrate fossils have been recovered from unspecified Pleistocene geologic units and the early Pliocene to early Pleistocene San Timoteo Formation (Bell pers. comm.). Fossils that were recovered include *Masticophis* (a genus of whip snake) and members of the Bovidae, Equidae, and Camelidae families. In addition, a south-trending bend in the Santa Ana River yielded fossils from Ice Age mammals, including *Mammuthus* (an extinct genus of mammoth) (Albert A. Webb Associates 2007). Because people collected fossils from the site and lands along the Santa Ana River in this area have been converted to residential development, the previous exposure that yielded the fossils is no longer visible.

The County of Riverside Paleontological Sensitivity Model maps paleontological sensitivity throughout Riverside County, including the City of Riverside. It recognizes four categories of sensitivity, High A, High B, Low, and Undetermined. According to the Society of Vertebrate Paleontology (2010), a geologic unit with undetermined paleontological sensitivity requires a field study by a qualified paleontologist to determine the paleontological potential of this unit before an impact determination and mitigation program can be made. Accordingly, geologic units with High A, High B, and Undetermined paleontological sensitivity have the potential to yield significant paleontological resources.

The County of Riverside Paleontological Sensitivity Model shows that most of the area within the City limits contains geologic units with High A, High B, or Undetermined paleontological sensitivity, with a minority containing geologic units with low paleontological sensitivity.

Discussion

a.1. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

Less-than-Significant Impact. As discussed under *Primary Seismic Hazards*, although the City lies within a seismically active area, no Alquist-Priolo Fault Zones or active faults transverse the City. The proposed Project could result in the development and construction of new housing and public safety infrastructure. Although the proposed Project would provide the framework for future development, no specific development projects are proposed as part of these changes. Policy PS-1.1 of GP 2025 ensures that all new development in Riverside abides by the most recently adopted City and state seismic and geotechnical requirements. As such, any future development occurring because of the proposed Project would require a geotechnical investigation and/or compliance with the CBC, which would address the risk of fault rupture. The proposed Project, which consists of changes to elements of GP 2025 would not exacerbate the risk of surface fault rupture. Because the risk of fault rupture is considered low in the City, development resulting from the proposed Project would be required to prepare a geotechnical investigation disclosing the site-specific risk of fault rupture at a future development site, and the proposed Project would not exacerbate the risk of surface fault rupture, this impact would be less than significant.

a.2. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: Strong seismic ground shaking?

Less-than-Significant Impact. As discussed under *Primary Seismic Hazards*, the City is in a seismically active area near several active faults that can produce earthquakes of 6.0 M or greater. Seismic ground shaking could be felt throughout the City. The proposed Project could result in the development and construction of new housing and public safety infrastructure. As such, future developments constructed because of the proposed Project could experience seismically related ground shaking during an earthquake. However, future development resulting from the proposed Project would be required to comply with general plan policies and CBSC requirements, which would require preparation of a geotechnical investigation, thereby reducing risks to life from damage to newly constructed buildings and structures as the result of seismic ground shaking. As the proposed Project would not exacerbate the risk of ground shaking, future developments facilitated by the proposed Project would be required to comply with General Plan policies and building code requirements, this impact would be less than significant.

a.3. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: Seismically related ground failure, including liquefaction?

Less-than-Significant Impact. As discussed under *Secondary Seismic Hazards*, although soils that are prone to liquefaction are located throughout the City, the highest liquefaction risk is concentrated in four areas, the area along the Santa Ana River, the area south and west of Riverside Municipal Airport, an area in western Riverside spanning La Sierra Avenue, and a smaller area along the City's southern boundary. Although the proposed Project would not include any specific developments, the Housing and Public Safety Elements updates, development of environmental justice policies, and Zoning Code and specific plan amendments, could result in the development and construction of new housing, mixed-use, and public safety infrastructure. Development could be proposed on parcels that are underlain by liquefiable soils. However, future development resulting from the proposed Project would be required to comply with General Plan policies, such as Policy PS-1.6, which requires the City building official to explore and implement, where feasible, best practices and latest technologies to minimize damage to structures in areas determined to have a high liquefaction potential during seismic activities. In addition, future development resulting from the proposed Project would comply with CBSC requirements (e.g., submission of a preliminary soils report and a soils engineering analysis). The report would identify any liquefiable soils at the development site and provide recommendations to reduce the risk associated with liquefaction. Because any future development occurring as a result of the proposed Project on potentially liquefiable soils would comply with general plan policies and CBSC requirements and may require a soils report and engineering analysis that would provide recommendations to reduce the risk of liquefaction during a seismic event, the proposed Project would result in a less-than-significant impact related to liquefaction.

Less-than-Significant Impact. As discussed under *Expansive Soils and Weak Soils*, weak soils are present in different areas of the City, and although the proposed Project would not include any specific development, changes to the General Plan could provide for future development of residential units, which could be proposed on these soils. However, as discussed above regarding liquefaction, future development resulting from the proposed Project would comply with CBSC requirements, which could require the submission of a preliminary soils report and a soils engineering analysis, depending on the site. The report would identify any weak soils at development sites and provide recommendations to reduce the risks associated with construction on these parcels. Because any future development facilitated by the proposed Project would comply with the recommendations in the applicable soils report, as well as standard regulations required by the CBC, the proposed Project would result in a less-than-significant impact related to weak soils.

Less-than-Significant Impact. As discussed under *Lateral Spreading*, lateral spreading poses the greatest risk in cohesionless sandy sediments over a high groundwater table in the vicinity of an open face, such as a cliff or a streambank. The risk of lateral spreading in the City is highest near the Santa Ana River and along arroyos and watercourses; none of the opportunity sites are in these areas. While the proposed Project does not include any specific development, changes to the general plan could provide for future development of housing and mixed-use development at opportunity sites, which could place development in areas that are at risk of lateral spreading. However, any development resulting from the proposed Project would be required to comply with standard regulatory requirements of the CBC, which would require construction, including foundations, to be designed to minimize risk resulting from lateral spreading. Future developments would also be subject to GP 2025 Policy PS-1.1, which would ensure that all new development in the City would abide by the most recently adopted City and state seismic and geotechnical requirements. The proposed Project would result in a less-than-significant impact related to lateral spreading.

a.4. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: Landslides?

Less-than-Significant Impact. As discussed under *Landslides*, although most of the City is relatively flat, the western and northeastern portions are susceptible to landslides and rockfalls. Although the proposed Project would not include any specific developments, the proposed Project could result in the development and construction of new housing, public safety infrastructure, and mixed-use development on opportunity sites. However, GP 2025 includes policies that limit development on steep or unstable slopes, and none of the opportunity sites are in these areas. Policy PS-1.4 recommends the use of open space easements and other regulatory techniques to prohibit development and avoid creating public safety hazards where geologic instability is identified and cannot be mitigated. Because future development projects facilitated by the proposed Project would comply with policies in GP 2025, the proposed Project would result in a less-than-significant impact related to landslides.

b. Result in substantial soil erosion or the loss of topsoil?

Less-than-Significant Impact. Although the proposed Project would not include any specific developments, the proposed Project could result in the development and construction of new housing, mixed-use development, and public safety infrastructure at opportunity sites. As a result, new development could occur on a variety of slopes, grades, and soil types where erosion could occur. As discussed under *Erodible Soils*, soils with a high susceptibility to erosion are located throughout the City but are especially prevalent in the northwest portion of the City near Arlington Avenue and in the southeast portion of the City near Gentian Avenue. . Development facilitated by the proposed Project could require excavation, stockpiling of spoil materials, and grading, which could expose soils to erosion or lead to the loss of topsoil. However, as discussed in Section X, *Hydrology and Water Quality*, development of sites one acre or larger facilitated by the proposed Project would require a Stormwater Pollution Prevention Plan (SWPPP) in compliance with the Construction General Permit, local stormwater ordinances, and other related requirements. The SWPPP would require best management practices (BMPs) for earthmoving and clearing activities to minimize any mobilization of sediment, stabilize disturbed areas, and control sediment. Because the proposed Project itself does not include any construction that could lead to erosion, and future developments facilitated by the proposed Project would be required to implement a SWPPP that would include erosion control BMPs, this impact would be less than significant.

c. Be located on a geologic unit or soil that is unstable or that would become unstable as a result of the proposed Project and potentially result in an on-site or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?

Less-than-Significant Impact. Although the proposed Project would not include any specific developments, the proposed Project could result in the development and construction of new housing, public safety infrastructure, and mixed-use development, which could be located on parcels that are underlain by liquefiable soils. Liquefaction is discussed above in Impact a.3.

Soil type and groundwater depth vary across the City, but it is assumed that the risk of lateral spreading is highest near the Santa Ana River and along arroyos and watercourses, areas where the risk for liquefaction is higher than it is in the rest of the county. Lateral spreading is discussed above in Impact a.3.

Although the proposed Project would not include any specific developments, future developments that could result from the proposed Project could be placed on geologic unit or soil that is unstable or that would become unstable because of the proposed Project. However, any development resulting

from the proposed Project would be required to comply with CBSC requirements, which would require submission of a preliminary soils report and a soils engineering analysis to identify unstable geologic units and/or soils. The report would provide recommendations to reduce the risk associated any potential instability at a future development site. Future developments would also be subject to GP 2025 Policy PS-1.1, which would ensure that all new development in the City would abide by the most recently adopted state seismic and geotechnical requirements. Because the proposed Project would not construct any new development, and future development resulting from the proposed Project would be required to abide CBSC requirements and City policies, the proposed Project would result in a less-than-significant impact related to the placement of structures on an unstable geologic unit or soil.

d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

Less-than-Significant Impact. As discussed under *Expansive Soils and Weak Soils*, the City is underlain by soils with a high shrink-swell potential, particularly in the area west of Riverside Municipal Airport and within the Lake Mathews drainage area. Although the proposed Project would not include any specific developments, future developments that could result from the proposed Project could be placed on expansive soils. However, future development facilitated by the proposed Project would comply with CBSC requirements, which would require the submission of a preliminary soils report and a soils engineering analysis. The report would identify any expansive soils at development sites and provide recommendations to reduce the risks associated with construction on these parcels. Because any future development facilitated by the proposed Project would comply with the recommendations in the applicable soils report, as well as standard regulations required by the CBC, the proposed Project would result in a less-than-significant impact related to expansive soils.

e. Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems in areas where sewers are not available for the disposal of wastewater?

Less-than-Significant Impact. Although the proposed Project would not include any specific developments, the City's Housing and Public Safety Elements and environmental justice updates could result in the development and construction of new housing and mixed-use development and public safety infrastructure. The opportunity sites are located near existing wastewater infrastructure. As discussed in Section XIX, *Utilities and Service Systems*, development resulting from the proposed Project would connect predominantly to existing water and wastewater disposal lines maintained by the City of Riverside Public Works Department and would not rely on septic tanks or alternative wastewater disposal systems. However, it is possible that some housing units, such as accessory dwelling units, could be constructed on sites that are served by septic systems. This development is expected to be minimal and a negligible percentage of overall housing development. It would most likely not be located on soils that would be incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems. As such, the impact would be less than significant.

f. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Potentially Significant Impact. Because paleontological resources are generally located below the ground surface, ground disturbance associated with construction, such as excavating, grading, and resurfacing, in a geologic unit that may contain significant fossils could affect paleontological resources that may be present at the site. The proposed Project would enable future development and the construction of new housing, public safety infrastructure, and mixed-use development. In identifying opportunity sites, attempts have been made to eliminate locations with high

paleontological sensitivity. The Public Safety Element could also facilitate development of new public infrastructure. Accordingly, future developments facilitated by the proposed Project could involve ground disturbance. Depending on the depth of disturbance and how far below ground surface the paleontological resources may be located, these ground disturbances have the potential to damage or destroy such resources.

As discussed above, the County of Riverside Paleontological Sensitivity Model shows that most of the area within the City limits contains geologic units with High A, High B, or Undetermined paleontological sensitivity, with a minority containing geologic units with Low paleontological sensitivity. Because the opportunity sites under the proposed Project are situated throughout the City, it is likely that some of these sites are located on geologic units with High A, High B, or Undetermined paleontological sensitivity. Project construction could disturb previously unknown significant fossils, potentially damaging or destroying these fossils. It is unlikely that operation of the proposed Project would include ground-disturbing activities. However, future development facilitated by the proposed Project could result in the need for operations-period ground disturbance, such as landscaping or maintenance. Depending on the location and depth of ground disturbance, proposed operations could disturb previously unknown significant fossils, potentially damaging or destroying such fossils.

GP 2025 Policy HP-1.3 protects paleontological resources. The policy states that the City shall protect sites of archaeological and paleontological significance and ensure compliance with all applicable state and federal cultural resources protection and management laws in its planning and project review process. However, despite compliance with Policy HP-1.3, impacts would remain potentially significant and this topic will be evaluated in the forthcoming EIR.

VIII. Greenhouse Gas Emissions

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Would the proposed Project:				
a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Affected Environment

Increases in fossil fuel combustion and deforestation have increased concentrations of GHGs in the atmosphere. Rising atmospheric concentrations of GHGs more than natural levels result in increasing global surface temperatures—a phenomenon commonly referred to as *climate change*. The primary associated GHG emissions are carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), and fluoridated compounds. Assembly Bill (AB) 32 sets forth the regulatory framework in California to reduce emissions to 1990 levels by 2020. SB 32 builds on AB 32 and establishes a longer-term goal of 40 percent below 1990 levels by 2030. Unlike criteria pollutants, which are primarily pollutants of regional and local concern, GHGs are a global problem, and GHG impacts are inherently cumulative.

As part of the City of Riverside’s Climate Economic Prosperity Action Plan and Climate Action Plan (CAP), prepared in 2016, the City developed a community-wide baseline GHG emissions inventory; according to Appendix C of the RRO-CAP, 2007 and 2010 inventories were used as a baseline for modeling done in 2016.

Discussion

a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Potentially Significant Impact. The proposed Project, which includes Housing and Public Safety Elements updates, development of environmental justice policies, and Zoning Code and Specific Plan amendments, would not directly result in any construction-related or operational GHG emissions. However, subsequent housing, public infrastructure, and mixed-use developments facilitated by the Housing and Public Safety Element updates could result in GHG emissions from their future construction and operation. Consequently, the proposed Project has the potential to have an indirect significant impact on the environment. The impact is potentially significant and will be analyzed in the forthcoming EIR.

b. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Potentially Significant Impact. The City adopted its CAP in January 2016. The CAP includes baseline and forecast GHG inventories, reduction targets, and measures to reach those targets (City of Riverside 2016). The construction of new housing, mixed-use development, and public infrastructure facilitated by the proposed Project could increase forecast emissions in the city, above emissions

levels projected in the CAP, which may impede attainment of the CAP targets. The proposed Project could result in a potentially significant impact related to a conflict with applicable plans, policies, or regulations adopted for the purpose of reducing emissions of GHGs. This impact is potentially significant and will be analyzed in the forthcoming EIR.

IX. Hazards and Hazardous Materials

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Would the proposed Project:				
a. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Create 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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Emit hazardous emissions or involve handling hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Be located within an airport land use plan area or, where such a plan has not been adopted, be within two miles of a public airport or public use airport, and result in a safety hazard or excessive noise for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Affected Environment

Hazardous materials in various forms can cause death, serious injury, or long-lasting health effects and damage buildings, homes, and other property. Hazards to human health and the environment can occur during the production, storage, transportation, use, or disposal of hazardous materials. *Household hazardous waste* refers to the used or leftover contents of consumer products that contain materials with one of the four characteristics of a hazardous waste, toxicity, ignitability, corrosivity, or reactivity. Other important areas of concern for the analysis of hazards and hazardous materials under CEQA are Airport Influence Areas (AIAs), which are used in land use planning to identify areas that are commonly overflowed by aircraft as they approach and depart an airport or as they fly within established airport traffic patterns. Other considerations are disaster preparedness and emergency response, which are important for establishing the most effective and efficient ways to address issues regarding hazards and minimize their effects on life and property, reduce the potential for disasters, and recover from the effects of disasters as quickly as possible.

Hazardous Materials

A review of the State Water Resources Control Board's GeoTracker and the Department of Toxic Substances Control's (DTSC's) EnviroStor identified multiple hazardous material cleanup sites within the City, including Leaking Underground Storage Tank (LUST) Cleanup Sites, Cleanup Program Sites, Military Cleanup Sites, and DTSC Cleanup Sites located throughout the City. A brief description of the sites is included below.

- **LUST Cleanup Sites:** Includes all Underground Storage Tank (UST) sites that have had an unauthorized release (i.e., leak or spill) of a hazardous substance.
- **Cleanup Program Sites:** Includes all "non-federally owned" sites that are regulated under the State Water Resources Control Board's Site Cleanup Program and/or similar programs conducted by each of the nine Regional Water Quality Control Boards.
- **Military Cleanup Sites:** Includes all cleanup sites that are located on existing military bases or those that are to be transferred.
- **DTSC Cleanup Sites:** There are several sub-categories within the DTSC's Cleanup Sites category. These can include Cal-Mortgage, Evaluation, Federal Superfund, Formerly Used Defense Sites, School, State Response, and Voluntary Cleanup sites.

Typically, residential and institutional land uses are not associated with a significant impact from hazardous materials. Although several chemicals and other hazardous materials are used in households, including automotive batteries and fluids, such as oil, paints, and cleaning chemicals, several programs and facilities have been established for proper disposal of these materials.

Schools

According to the GP 2025's Education Element, the City hosts three universities (University of California, Riverside; California Baptist University; La Sierra University), a college (Riverside Community College), two school districts (Riverside and Alvord Unified School Districts), and several private schools throughout the City.

Airports

Riverside Municipal Airport is within the western portion of the City limits (and is the only airport within the City). The airport includes two intersecting runways and occupies some 441 acres. March Air Reserve Base and Flabob Airport are adjacent to the City, in Riverside County.

Discussion

a. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Less-than-Significant Impact. Implementation of the proposed Project would lead to additional development as well as other land use activities that would require the routine transport, use, or disposal of hazardous materials and hazardous wastes within the City. If accidentally released, these materials could result in exposure risks for construction personnel and nearby residents. Such transport, use, and disposal must comply with applicable federal and state regulations, such as the Resource Conservation and Recovery Act, Department of Transportation Hazardous Materials Regulations, etc. Although fuel, paint products, lubricants, solvents, cleaning products, and fertilizers would be transported, used, and disposed of, these materials are typically used in construction projects and would not represent the transport, use, and disposal of acutely hazardous materials.

For facilities that handle hazardous materials during operations, California Health and Safety Code Section 25507 requires businesses to establish and implement a Hazardous Materials Business Plan for emergency response to a release or threatened release of a hazardous material. This requirement applies to businesses that handles a hazardous material or a mixture above the thresholds described in Section 25507.

Because of the nature of residential and some commercial development, especially mixed-use developments, only common hazardous materials, such as solvents, paints, and fuels, would be used. These materials would be used infrequently and in small amounts. Releases involving these materials would be localized and cleaned up as they occur. The routine transport, use, or disposal of hazardous materials associated with implementation of the proposed Project would be a less-than-significant impact.

b. Create 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?

Potentially Significant Impact. As mentioned under the *Affected Environment*, LUST Cleanup Sites, Cleanup Program Sites, Military Cleanup Sites, and DTSC Cleanup Sites exist throughout the City. As such, hazardous materials sites with the potential for contaminated on-site soil and/or groundwater exist. It is possible that implementation of the updates to the proposed Project could result in development occurring within or immediately adjacent to one of these hazardous materials sites, especially if new residential and mixed-use development facilitated by the proposed Project occurs in previously designated industrial areas. Depending on the contaminant characteristics and extent of contamination, excavation activities conducted during construction could encounter contaminated groundwater and/or contaminated soil. Contaminated sites would require remediation in coordination with the applicable federal, state, and/or local agency (e.g., EPA, State Water Resources Control Board, DTSC, or the Environmental Health or Fire Department). For contaminated sites, construction could also require implementation of engineering controls to minimize the risk of potential exposure to hazardous waste for construction personnel and the surrounding environment. Because of the potential for significant impacts, this topic will be analyzed further in the forthcoming EIR.

c. Emit hazardous emissions or involve handling hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Potentially Significant Impact. School sites are located throughout the City, and implementation of the proposed Project could result in construction occurring near an existing or proposed school. Construction activities arising from the proposed Project would involve the routine transport, use, and disposal of hazardous materials; however, these would be materials that are typically used in construction projects and would not include acutely hazardous materials. The transport, use, and disposal of typical construction hazardous materials would comply with applicable federal, state, and local regulations.

Because there are multiple hazardous material cleanup sites within the City's boundaries, it is possible that the proposed Project could result in development in contaminated areas near a school site. However, contaminated sites would require remediation in coordination with the applicable federal, state, and/or local agency. They could also require implementation of engineering controls to minimize the risk of exposure for construction personnel and the surrounding environment, including nearby schools. This topic will be analyzed further in the forthcoming EIR.

d. Be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

Potentially Significant Impact. A review of the State Water Resources Control Board’s GeoTracker and DTSC’s EnviroStor websites identified multiple hazardous material cleanup sites within City boundaries, including State Water Resources Control Board LUST Cleanup Sites, Cleanup Program Sites, and Military Cleanup Sites and DTSC Cleanup Sites (State Water Resources Control Board and DTSC 2020). Because the proposed Project would promote additional development, including in industrial areas that could be rezoned for residential and/or mixed uses, it is possible that construction could occur within or immediately adjacent to one of the aforementioned hazardous material cleanup sites, including sites classified as “Cortese List” sites.² Soil and groundwater disturbances within these locations have the potential to expose construction personnel and the surrounding environment to hazardous waste. Sites under the purview of the State Water Resources Control Board or DTSC would be required to undergo remediation and cleanup to the satisfaction of said agencies before construction activities could commence. Hazardous waste handled during remediation would require compliance with all applicable federal, state, and local laws. This topic could result in potentially significant impacts and will be analyzed in the forthcoming EIR.

e. Be located within an airport land use plan area or, where such a plan has not been adopted, be within two miles of a public airport or public use airport, and result in a safety hazard or excessive noise for people residing or working in the project area?

Less-than-Significant Impact. Because the proposed Project could occur in all parts of the City, the potential exists for development to occur within Riverside Municipal Airport’s AIA and to be subject to noise level restrictions, along with intensity and height limitations within aircraft hazard zones (County of Riverside 2005a). According to the 2005 Riverside County Airport Land Use Compatibility Plan Policy Document (County of Riverside 2005b), the AIA for Riverside Municipal Airport is characterized as follows: The instrument approach route and typical extent of the airport traffic pattern define the of the AIA boundary for Riverside Municipal Airport. To the east and west, this boundary coincides mostly with the outer edge of the airport’s FAR Part 77 conical surface. A westward extension encompasses locations where aircraft on a precision instrument approach are lower than 1,000 feet above the airport elevation.

As mentioned, construction facilitated as a result the City’s Housing and Public Safety Element updates would be required to adhere to intensity and height limitations within aircraft hazard zones. Flabob Airport is a small public-use airport north of the Sana Ana River in the City of Jurupa Valley. March Air Reserve Base is also outside the City; however, it is not a public use airport. The proposed Project would not propose future residential and/or mixed-use development on opportunity sites within a flight path or a restricted AIA for any of the airports within or adjacent to the City. The proposed Project would not result in a change in air traffic patterns or result in a safety hazard for people residing or working in the City, and there would be a less-than-significant impact.

Although development occurring within an AIA would be subject to noise level restrictions, the potential exists for noise impacts to result in potentially significant effects due to proximity to an airport. This could require further consideration to identify mitigation to reduce potential impacts.

² Facilities or sites identified as meeting the Cortese List requirements include (a) hazardous waste and substance sites from DTSC’s EnviroStor database, (b) LUST sites from the State Water Board’s GeoTracker database, (c) active “cease and desist” orders and “cleanup and abatement” orders, and (d) hazardous waste facilities subject to corrective action identified by DTSC (California Environmental Protection Agency 2021).

Additional details are provided in this document under Section XIII, *Noise*. As such, potentially significant impacts associated with noise will be analyzed in the forthcoming EIR under the resource area pertaining to noise.

f. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Less-than-Significant Impact. The City's Office of Emergency Management (OEM), also known as the Riverside Fire Department (RFD) Emergency Services Division, administers an all-hazards community-based emergency management program. RFD ensures multi-jurisdictional cooperation and communication for emergency planning and response management through activation of the Standardized Emergency Management System (SEMS). Also, pursuant to requirements of the Disaster Mitigation Act of 2000, the City, along with the County of Riverside, prepared the Riverside County Operational Area Multi-Jurisdictional Local Hazard Mitigation Plan (most recent iteration was prepared in July 2018). The purpose of the plan is to identify Riverside County's hazards (including within the City), review and assess past disaster occurrences, estimate the probability of future occurrences, and set goals to mitigate potential risks and reduce or eliminate long-term risks to people and property from natural and man-made hazards (County of Riverside 2018).

The GP 2025 includes several policies related to emergency plan implementation. Policies PS-9.1 and PS-9.3 require the City to maintain and test the City's Emergency Operations Plan. Policy PS-9.5 ensures that the City will provide information to the public regarding disaster preparedness. Policy PS-9.7 and PS-9.8 require the City to identify actions to reduce the severity and risk to the community from hazards. Policy PS-10.3 ensures that public safety infrastructure and staff resources will keep pace with new development. Policy PS-10.4 ensures that development will have adequate ingress and egress. Policy PS-10.5 requires coordination to educate the community about hazard safety. Policy PS-10.6 ensures coordination between the City and public safety departments. Policy PS-10.7 and Policy PS-10.8 encourage funding for emergency response programs. Policy PS-10.9 requires the City to maintain the Emergency Operations Center and allow for expansion (City of Riverside 2018). The updates to the Public Safety Element, as part of the proposed Project, will also address emergency response and preparedness in the City, including the provision of high-quality and responsive emergency management services to all residents and businesses in Riverside.

With continued use of SEMS and the Riverside County Operational Area Multi-Jurisdictional Local Hazard Mitigation Plan, as well as implementation of GP 2025 policies and Public Safety Element principles, goals, policies, and actions developed for the proposed Project, the proposed Project would result in less-than-significant impacts.

X. Hydrology and Water Quality

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Would the proposed Project:				
a. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the proposed Project may impede sustainable groundwater management of the basin?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner that would:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1. Result in substantial erosion or siltation on- or off-site;	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Substantially increase the rate or amount of surface runoff in a manner that would result in flooding on- or off-site;	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Impede or redirect floodflows?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Affected Environment

Surface Hydrology

The City is located predominantly within the Regional Water Quality Control Board (RWQCB) Middle Santa Ana River Watershed Management Area and the Santa Ana Hydrologic Unit/Watershed. A small area in the southeastern section of the City is in the Perris Valley drainage area of the San Jacinto Watershed. The major surface water feature in the City is the Santa Ana River on the northern boundary of the City, along with several arroyos and canals that cross the City, including Riverside Canal, Sycamore Canyon, Gage Canal, and Spring Brook River/Wash. There are 11 primary drainage areas, 10 of which eventually flow into the Santa Ana River. Surface drainage generally flows in a northerly direction.

The headwaters of the Santa Ana River are in the San Bernardino Mountains. The river flows more than 100 miles to the Pacific Ocean. The Santa Ana River Watershed drains 2,840 square miles, covering portions of San Bernardino, Riverside, and Orange Counties (Water Education 2021). Santa Ana River Reach 3 is the receiving water for most of the City. Several arroyos, either in their natural state or piped underground, are tributary to the Santa Ana River across the City. The major arroyos include Springbrook Wash, Tequesquite Arroyo, Alessandro Arroyo, Prenda Arroyo, Woodcrest Arroyo, and Mockingbird Canyon. The area of the City within the San Jacinto Watershed is drained by the Perris Valley Storm Drain, which flows into the San Jacinto River. The headwaters of the San Jacinto River are in the San Jacinto Mountains. The river drains to Canyon Lake and ultimately to Lake Elsinore. Approximately 80 percent of the City is covered with impervious surfaces (City of Riverside 2016). Local drainage facilities generally consist of underground closed conduits and storm drains, primarily in developed portions of the City. These collect and convey stormwater to regional facilities, including the Santa Ana River.

Water Quality

Water quality in a typical surface water body is influenced by processes and activities that take place within the watershed. The quality of the stormwater runoff from within the City is typical of urban watersheds where water quality is affected primarily by discharges from both point and nonpoint sources, including winter storms, overland flows, exposed soils, roofs, parking lots, and streets. Water quality in the project vicinity is affected directly by stormwater runoff from streets and properties, which deliver fertilizers; pesticides; automobile/traffic-related pollutants (e.g., oil, grease, metals); sediment, with associated attached pollutants from soil erosion; trash; and other pollutants.

Constituents or pollutants in stormwater runoff vary with surrounding land uses, impervious surface area, and topography as well as with the intensity and frequency of rainfall or irrigation. The City is generally developed. The ground surface is covered by pavement (roads and parking lots) or structures (homes, offices, and commercial buildings); however, there are also open space areas. Street surfaces are the primary sources of pollutants in stormwater runoff in urban areas.

Common sources of stormwater pollution in urban areas include construction sites; parking lots; large landscaped areas, with associated fertilizers and pesticides; and household and industrial sites. Grading and earthmoving activities associated with new construction can accelerate soil erosion. Grease, oil, hydrocarbons, and metals deposited by vehicles and heavy equipment accumulate on streets and paved parking lots and are eventually carried into storm drains by runoff. The Santa Ana River (Reach 3) is 303(d) listed as impaired for copper, indicator bacteria, and lead. The Middle Santa Ana River Waterbodies – Nitrogen Compounds TMDLs [total maximum daily load] was approved on May 16, 2007 (State Water Resources Control Board 2018).

Groundwater

The City is predominantly within the Riverside-Arlington subbasin, within the larger Upper Santa Ana Valley Groundwater Basin (Department of Water Resources Basin Number 8-002.03). A small area in the eastern portion of the City is within the San Jacinto Groundwater Basin (Department of Water Resources Basin Number 8-005). Because of topography and underlying geology, some areas of the City are not within a recognized groundwater basin. Because the Upper Santa Ana Valley – Riverside-Arlington subbasin is designated as a very low-priority basin, a groundwater sustainability plan under the Sustainable Groundwater Management Act is not required. The San Jacinto Groundwater Basin is designated as a high-priority basin. The Eastern Municipal Water District's Board of Directors became the exclusive groundwater sustainability agency for the western portion of the San Jacinto Groundwater Basin on April 24, 2017. Because the basin is not critically overdrafted, a groundwater sustainability plan will be submitted to the Department of Water Resources by January 31, 2022.

Groundwater basins are recharged from natural runoff/infiltration from precipitation, treated wastewater, and imported water as well as infiltration from Santa Ana River flows, underflows from the neighboring Chino Subbasin, and return irrigation flows (Department of Water Resources 2004). Inorganic constituents were present at high concentrations in about 33 percent of the primary aquifers and at moderate concentrations in about 29 percent of the primary aquifers. Nutrients (nitrate plus nitrite) were present at high concentrations in approximately 25 percent of the primary aquifers and moderate concentrations in about 25 percent of the primary aquifers (Kent and Belitz 2012).

The City's water supply is from groundwater sources that are sustained by groundwater basins. The City extracts domestic water from the Bunker Hill, Riverside North, and Riverside South basins through wells operated by RPU and the Gage Canal Company. Water for domestic use is not extracted from the Arlington and Rialto-Colton basins because of poor water quality and the lack of transmission lines.

Flooding

Flooding in the City could result from intense storms or dam failure. The City is predominantly outside the Federal Emergency Management Agency (FEMA) 100-year floodplain in Zone X, an area with minimal flood hazard above the 500-year flood level. However, some areas of the City are within the FEMA 100-year floodplain (Zones A and AE). This includes about one-third of the Northside Specific Plan area. Flood hazards are greatest within and adjacent to channels, creeks, streams, and arroyos, including the Santa Ana River and several dams. Some portions of the Santa Ana River are also within the 100-year floodway (Zone AE). Moderate flood hazards, between the limits of the 100-year and 500-year floods (Zone X [shaded]), and areas with reduced flood risks because of levees are also present in the City. A portion of the southeastern section of the City is in FEMA Zone D (i.e., areas with possible but undermined flood hazards where no flood hazard analysis has been conducted) (FEMA 2008).

Discussion

a. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?

Less-than-Significant Impact. Project construction facilitated by the proposed Project would have the potential to temporarily increase sediment loads and affect surface water quality. Updates to the City's Housing Element as well as Zoning Code and specific plans could result in the need for ground disturbance, such as landscaping or maintenance, during operation as well. For individual development projects facilitated by the proposed Project that would be subject to National Pollutant Discharge Elimination System (NPDES) requirements, a project-specific SWPPP would be developed and implemented in compliance with the Construction General Permit, local stormwater ordinances, and other related requirements. Areas with one acre or more of disturbance would need to have a SWPPP prepared and implemented. Also, individual development projects may require grading permits and interim erosion control plans to be submitted prior to construction.

Construction BMPs would control or prevent the discharge of pollutants, including concrete, waste from pavement cutting, petroleum products, chemicals, wastewater, sediments, and non-stormwater discharges, to storm drains and watercourses. In addition, construction materials and wastes would be stored, handled, and disposed of properly to prevent contact with stormwater. Earthmoving and clearing activities would be performed during dry weather only to minimize any mobilization of sediment. Temporary erosion controls, as applicable, would be implemented to stabilize disturbed areas until permanent erosion controls can be established.

Future development, consistent with and facilitated by the proposed Project, would increase the impervious surface area in the City. Operation could increase the levels of pollutants (e.g., trash, oil, grease, pesticides) and introduce pollutants into storm drains that would have the potential to degrade water quality. However, the City requires individual development projects to comply with existing State Water Quality Control Board and City stormwater regulations, including compliance with NPDES requirements related to preventing the transport of pollutants. The Santa Ana Drainage Area Management Plan (DAMP) provides a selection of BMPs, as required by NPDES. Project-specific Water Quality Management Plans (WQMPs) would be prepared that would outline the low-impact development (LID) BMPs required to meet water quality standards and reduce stormwater runoff. This is a standard requirement for all projects creating or replacing more than 5,000 square feet of impervious area.³ LID project design features may include infiltration beds, swales, or basins; stormwater retention in detention ponds or constructed wetlands; rain harvesting; catchment technologies, such as rain gardens and cisterns; and permeable paving elements (City of Riverside 2019). Implementation of the City's Municipal Separate Storm Sewer System (MS4) permit, DAMP, and WQMP would provide the most comprehensive and effective approach to reducing water quality impacts from urbanization.

The Northside Specific Plan EIR also analyzed water quality concerns and includes measures addressing water quality including the creation of regional water quality basins. An updated hydrology and water quality study is currently underway (City of Riverside 2020). In addition, on-site detention, and stormwater infiltration measures such as swales, rain gardens, permeable paving, and other stormwater management BMPs encouraged by the City's Water Efficient Landscaping and Irrigation ordinance (RMC chapter 19.570) and the Citywide Water Efficient Landscaping and Irrigation Design Guidelines would be implemented by future development under the proposed Project, where feasible. The WQMP also identifies the appropriate BMPs to be implemented on a project-specific basis. These stormwater management BMPs are required to meet minimum water quality standards. Design recommendations included in the WELO and Guidelines are not requirements but can be implemented to meet WQMP guidelines as required for a given project. The Citywide Green Action Plan also includes goals related to protecting water quality including maintaining high water quality through appropriate recharge, conservation, management of sources, source water protection and contaminated source remediation. The proposed Project would not violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface water or groundwater quality. Impacts would be less than significant.

b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the proposed Project may impede sustainable groundwater management of the basin?

Less-than-Significant Impact. Drinking water supplies in the City, primarily from groundwater supplies, are provided by RPU. Additional water is also provided by the Western Municipal Water District, the Eastern Municipal Water District, and the Riverside Highland Water Company from both groundwater and importation. Development facilitated by the proposed Project would increase the population, which would increase the demand for water supplies. The potential to increase groundwater supplies will be analyzed in individual project-specific assessments through a Water Supply Assessment prior to project approvals.

RPU's water supplies are supplied predominantly by local groundwater originating from the Bunker Hill Basin, also known as the San Bernardino subbasin within the larger Upper Santa Ana Valley Groundwater Basin. RPU's water supply from the Bunker Hill Basin is considered reliable during

³ City of Riverside Public Works Department Water Quality Management Plans Applicability Checklist

single-year and multi-year dry periods. The Bunker Hill Basin is adjudicated, and its safe-yield and export rights are well defined and managed. Other groundwater supply basins for the City (i.e., the Colton, Riverside North, and Riverside South basins) are subject to groundwater management under a 1969 judgment (Langridge et al. 2016).⁴ None of these basins is currently in a critical overdraft condition (City of Riverside 2016; Department of Water Resources 2020). Adverse environmental impacts are not expected from the use of groundwater sources because groundwater extraction would be within the safe yield of the groundwater basin. To increase water supply reliability, RPU intends to augment natural recharge in the Bunker Hill and Riverside Basins through conjunctive use projects and develop other forms of conservation (e.g., recycled water) (City of Riverside 2016).

Individual projects may either increase or decrease the impervious area on the individual project site. However, any change in impervious cover would impact potential groundwater recharge. Implementation of some of the individual development projects facilitated by the proposed Project would increase the impervious surface area and potentially decrease groundwater recharge. However, some of the individual residential, public infrastructure, and mixed-use projects facilitated by the proposed Project could decrease the impervious surface area through the addition of impervious surfaces and landscaping compared to existing conditions and potentially increase groundwater recharge. Also, the Riverside Citywide Water Efficient Landscaping and Irrigation Design Guidelines encourage the use of stormwater infiltration measures such as infiltration beds, swales, basins, and permeable paving. These features would be implemented on future development under the proposed Project, where feasible, and would allow runoff to infiltrate the soil media and percolate into the ground. Landscape features would allow groundwater recharge and increase recharge potential within individual project areas. In addition, RPU does not operate groundwater recharge facilities within the City. The proposed Project would not substantially decrease groundwater supplies or interfere with groundwater recharge such that the Project would impede sustainable management of the basin. Impacts are considered less than significant.

c.1. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner that would: Result in substantial erosion or siltation on- or off-site?

Less-than-Significant Impact. Project construction activities facilitated by the proposed Project would temporarily alter existing drainage patterns and could result in temporary on-site erosion and siltation. Generally, the City is largely built out and urbanized. As a result, impacts related to erosion or siltation would not be significant for future development occurring on partially or fully developed sites. Where development would occur on undeveloped properties, the potential exists to alter the existing drainage pattern of the site or area. However, new development would be subject to NPDES requirements. Areas with one acre or more of disturbance would prepare and implement a SWPPP. The SWPPP would reduce the potential for erosion, siltation, or other contamination and prevent runoff from construction sites during storm events. Erosion, siltation, and other possible pollutants associated with the implementation of projects would be addressed during the WQMP and grading permit process. Project-specific WQMPs would outline the LID BMPs required to adequately reduce stormwater runoff and erosion.

⁴ The 1969 Western Judgment adjudicated three basins, the Colton Basin Area (Rialto-Colton Basin), the Riverside Basin Area, and the San Bernardino Basin Area (with Lytle and Bunker Hill Basins). Each of these three basin areas was thought to have surface and groundwater connections that could affect the minimum flows at Riverside Narrows required by the Orange County Judgment. In addition, exporters in downstream Riverside County were concerned about the sustainability of groundwater withdrawals over time.

GP 2025 includes numerous policies related to stormwater control and the protection of drainage courses in the City. The updates to the Public Safety Element as part of the proposed Project would also address flood hazards in the City, including minimizing the risks and consequences associated with natural hazards, like flood hazards, within Riverside. Also, development-related project runoff would be evaluated individually prior to approvals and construction and required to be attenuated on-site. As a result, off-site discharges would be the same as the undeveloped or baseline condition, and alterations in existing drainage patterns would be minimized. Riverside citywide landscaping, irrigation, and mixed-use design guidelines provided in the Riverside Citywide Design Guidelines and Sign Guidelines (City of Riverside 2019) also include design features such as planters, permeable pavers, and other LIDs that allow drainage. Runoff from impervious areas would be directed to permeable surfaces, landscaping, or other low-impact design areas. In addition, storm drain infrastructure would be designed and maintained in compliance with the City's MS4 permit and applicable general plan policies and ordinances. The proposed Project would not alter the existing drainage pattern of project sites in a manner that would result in substantial erosion or siltation. Impacts would be less than significant.

c.2. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner that would: Substantially increase the rate or amount of surface runoff in a manner that would result in flooding on- or off-site?

Less-than-Significant Impact. Some of the residential development to be facilitated by the proposed Project could increase the amount of impervious surface area compared with existing conditions. It is likely that the proposed Project would result in an increase in impervious area that would result in a net increase in the volume of runoff and floodwater leaving some of the individual opportunity sites. However, the City is predominantly outside the FEMA 100-year floodplain. Because the City participates in the National Flood Insurance Program, it must ensure that individual projects meet federal standards for flood protection. To avoid flooding and/or placing new development within flood areas, the City requires building pads to be elevated above flood levels. Also, underground storm drains and streets must be designed to accommodate the 10-year storm from curb to curb; 100-year storms are accommodated within street rights-of-way. In addition, the Riverside County Flood Control and Water Conservation District (RCFCWCD) requires improvements to comply with its standards for flood control. Project runoff for new development facilitated by the proposed Project would be evaluated prior to approvals and construction and required to be attenuated on-site. As a result, off-site discharges would be the same as the undeveloped or baseline condition. Project-specific WQMPs, as applicable, would be prepared, outlining the LID BMPs required to reduce stormwater runoff. Future development must implement the BMPs identified in the project-specific SWPPP prior to the commencement of construction to reduce on- or off-site flooding. On-site stormwater runoff and flooding would be minimized through site development using citywide landscape and irrigation and mixed-use design guidelines provided in the Riverside Citywide Design Guidelines and Sign Guidelines (City of Riverside 2019). In addition, the GP 2025 includes numerous policies related to stormwater control and reduced flood risks. An engineering review of drainage calculations and development plans by the City of Riverside Department of Public Works would further ensure that no significant increases in peak-flow rates or runoff volumes would occur. The grading and drainage plans for individual projects would be reviewed by the City to ensure that on-site drainage and LID features would be adequate with respect to preventing on-site or off-site flooding. Updates to the Public Safety Element would reduce the risks associated with flooding, with policies and actions incorporated. The Public Safety Element update indicates where existing flood hazard areas are located and where building in flood hazard areas should be avoided. The Public Safety Element update also provides guidance regarding where development and flood control

infrastructure should be located to avoid contributing to flood hazards. The proposed Project would not alter the existing drainage pattern of the site in a manner that would result in a substantial increase in runoff or flooding, and impacts would be less than significant.

c.3. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner that would: Create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

Less-than-Significant Impact. All future individual construction projects more than 1 acre in size implemented under the proposed Project would be required to have coverage under the state's General Permit for Construction, including implementation of a SWPPP. BMPs would be implemented to reduce adverse water quality impacts resulting from development. Development would also be required to comply with water quality measures pursuant to the City's MS4 permit.

Future development, consistent with the proposed Project, would increase the amount of impervious surface area and associated runoff in the City. Runoff may carry pollutants and potentially degrade water quality. New development proposed under the project updates would be required to prepare and implement a project specific WQMP. The WQMP would outline the BMPs required to adequately reduce stormwater runoff; these would be approved prior to development approvals and issuance of grading permits.

Each new development or redevelopment project within the City that is subject to CEQA would be required, as part of the CEQA process or entitlement process, to demonstrate that stormwater runoff from the site would not result in an exceedance of the capacity of the existing or future storm drain system, meaning that other developments in the area could not negatively affect storm system capacity. RCFCWCD and the City have identified facilities that are currently undersized. Facilities would be expanded and/or new facilities would be constructed to accommodate both existing and planned development, as needed.

The City has developed a 5-year Capital Improvement Program (CIP), which includes a Storm Drain Program. The City would continue to fund and undertake storm drain improvement projects identified in the CIP. Storm drain improvements are prioritized to ensure that drainage improvements are installed concurrently with street improvement projects, in coordination with RCFCWCD projects.⁵ This program would include improvement projects that eliminate flooding during major storm events. Although the CIP addresses issues regarding existing undersized drainage facilities, not runoff increases anticipated due to general plan implementation, the City is required to routinely monitor and evaluate the effectiveness of the storm drain system and adjust as needed. In addition, the City requires development pads to be elevated above flood levels. Underground storm drains and streets are designed to accommodate the 10-year storm, and 100-year storms are accommodated within street rights-of-way. The Northside Specific Plan EIR also analyzed hydrology infrastructure concerns. The undeveloped areas within the Northside requires improvements to storm drain infrastructure to support additional development. The creation of regional water quality basins could be used for hydromodification management flow control for development projects (City of Riverside 2020). The proposed Project would not create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff. Impacts would be less than significant.

⁵ Capital improvements are funded out of the Storm Drain Fund, codified in Riverside Municipal Code Section 16.08.050, which authorizes the City to collect storm drain fees with the issuance of building permits.

c.4. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner that would: Impede or redirect floodflows?

Less-than-Significant Impact. Some areas of the City are within the FEMA 100-year floodplain, including areas within and adjacent to creeks, arroyos, and rivers, such as the Santa Ana River. The GP 2025 includes numerous policies related to preventing flood risks, deterring development near flood-prone areas, and requiring feasible mitigation of flood risk impacts on applicable development projects. A few areas of opportunity sites lie within the 100-year flood zone. Goal 4 of the Local Hazard Mitigation Plan is designed to protect the community from flood and storm-related losses (City of Riverside 2018) and sets forth several mitigation strategies to minimize impacts from flooding. The updates to the Public Safety Element as part of the proposed Project will further address flood hazards, augmenting existing policies and minimizing the risks and consequences of natural hazards, like flood hazards, within Riverside. The Public Safety Element update indicates where flood zone areas are located and the policies the City requires to protect these areas from flood hazards. In general, flood-prone areas are designated for open space and recreational uses rather than sensitive facilities and development. Because of the proximity to the Santa Ana River, potential flood risks are associated with dams and reservoirs in and close to the City, canals and arroyos, and low-lying areas that are routinely subject to flooding during heavy rains. Flood mitigation projects in the City include the Challen and Ryan Bonaminio Park Storm Preparation Projects and the Mount Rubidoux Roadway Drainage Improvements (City of Riverside 2018).

The City would review all development proposals to determine if a project is proposed in a flood hazard area. New construction within a 100-year flood zone would be required to mitigate flood hazards by providing on-site drainage, using anchoring to prevent floating structures, elevating buildings above flood levels, and including flood proofing. Buildings would be inspected and certified by a professional engineer, surveyor, or building inspector. As discussed previously, building pads would be elevated above flood levels. Underground storm drains and streets would be designed to accommodate the 10-year storm, and 100-year storms would be accommodated within street rights-of-way. Runoff from new development proposed under the proposed Project would be evaluated and attenuated on-site if located within a 100-year flood zone. Various areas within the Northside area do not have sufficient drainage capacity and flooding occurs in developed areas located directly adjacent to the existing channel alignment. Floodplain areas designated on FEMA maps would require a detailed hydraulic analysis which will need to be processed through FEMA (City of Riverside 2020). Stormwater infiltration measures such as infiltration beds, swales, basins, and other landscape features encouraged by the Citywide Water Efficient Landscaping and Irrigation Design Guidelines would be implemented on future development under the proposed Project where feasible. These features would increase on-site infiltration and minimize the potential for overland floodflows.

Updates to the Public Safety Element would reduce risks associated with flooding. The Public Safety Element update indicates where existing flood hazard areas are located to avoid building in flood hazard areas; it also provides policies regarding flood control infrastructure. The proposed Project would not impede or redirect floodflows, and impacts would be less than significant.

d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

Less-than-Significant Impact. The City is not located in a coastal area and is not prone to inundation due to tsunamis. Seiche occurs in an enclosed or partially enclosed body of water, such as a lake or reservoir. Lake Evans in Fairmont Park may be subject to seiche. However, Lake Evans, which is surrounded by a park area, outlets directly to the Santa Ana River; the risk of inundation related to a seiche in Lake Evans is considered minimal. In the event of a flood hazard, to reduce the

risk of a pollutant release, individual projects facilitated by the proposed Project would comply with the requirements of local water quality programs and associated municipal stormwater-related NPDES permits (e.g., MS4 permit, DAMP, project-specific WQMP) as well as GP 2025 policies and Public Safety Element updates to manage flood risk and water quality. Compliance with these requirements would minimize risks related to a release of pollutants due to any potential inundation in a flood hazard, tsunami, or seiche zone.

Updates to the Public Safety Element would reduce flood risks and any associated release of pollutants. The Public Safety Element update indicates where existing flood hazard areas are located and where building construction, including associated storage areas for pollutants, should be avoided. Public Safety Element policies require measures to minimize risks associated with the storage, transport, and disposal of hazardous materials as well as associated impacts on surface and groundwater. The proposed Project would not release pollutants because of inundation by flood, tsunami, or seiche. Impacts would be less than significant.

e. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Less-than-Significant Impact. Implementation of the proposed Project would not conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan. Some of the potential future development or redevelopment facilitated by the proposed Project would result in an increase in impervious area, which could decrease groundwater recharge capacity and increase the volume of runoff and associated pollutants. Future development under the proposed Project would be required to comply with the appropriate water quality objectives for the region. Commonly practiced BMPs would be implemented to control construction site runoff and reduce discharges of pollutants (i.e., stormwater and other nonpoint-source runoff) to storm drain systems. As part of compliance with permit requirements during ground-disturbing or construction activities, implementation of water quality control measures and BMPs would ensure that water quality standards would be achieved, including water quality objectives that protect designated beneficial uses of surface water and groundwater, as defined in the Water Quality Control Plan for the Santa Ana River Basin (Region 8). The NPDES Construction General Permit also requires stormwater discharges not to contain pollutants that cause or contribute to an exceedance of any applicable water quality objectives or water quality standards, including designated beneficial uses. The RWQCB has determined that implementation of the DAMP and MS4 permit would also protect the beneficial uses of all receiving waters. In addition, GP 2025 policies would require a sustainable groundwater management plan to protect groundwater recharge areas and groundwater resources. Citywide Water Efficient Landscaping and Irrigation Design Guidelines provided in the Riverside Citywide Design Guidelines and Sign Guidelines (City of Riverside 2019) include the use of stormwater infiltration measures such as infiltration beds, swales, basins, permeable paving, and other landscape features. These features would allow water to percolate into the ground and groundwater to recharge. A groundwater sustainability plan is not required for the Upper Santa Ana Valley – Riverside-Arlington subbasin because it is designated as a very low-priority basin. A groundwater sustainability plan for the San Jacinto Groundwater Basin will be submitted to the Department of Water Resources by January 31, 2022. The proposed Project would not conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan, and the impact would be less than significant.

XI. Land Use and Planning

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Would the proposed Project:				
a. Physically divide an established community?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Affected Environment

The City includes a diverse mix of land uses, with a higher intensity of land uses concentrated from west to east along major corridors. The City’s residential development is concentrated north and west of State Route 91. South and east of Victoria Avenue, is characterized predominately by rural or semi-rural land uses (agriculture, open space, and low-density residential). The University of California, Riverside straddles a section of Interstate 215 to the northeast.

The City has 28 individual neighborhoods, each with its own characteristics, history, architecture, housing types, and amenities. as identified in GP 2025.

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The Land Use and Urban Design Element from GP 2025 details the City’s vision for its future development and within the greater planning area, which extends to the SOI. The Land Use and Urban Design Element contains objectives and policies that are to be implemented through a variety of planning tools.

State housing law requires the Housing Element to identify specific sites that are potentially suitable for residential development. The City has compiled an inventory of opportunity sites. These include properties that are dispersed throughout the City, thereby minimizing the potential for adverse changes to neighborhood character and aesthetics and reducing the potential for significant environmental impacts. As part of the initial site investigation, the City identified opportunity sites that are potentially suitable areas for future housing expansion (see Figures 5–18).

Discussion

a. Physically divide an established community?

Potentially Significant Impact. Adoption of the 2021–2029 Housing Element update would not physically divide an established community. The Housing Element update is strictly a policy document; it does not provide entitlements to any specific land use development or redevelopment project. The Housing Element update encourages and facilitates development and redevelopment of a range of housing types and affordability levels. However, residential, and mixed-use developments facilitated by the Housing Element update would require a zoning code amendment to rezone up to 652 acres within City boundaries and accommodate new housing with a variety of densities and income levels as part of the proposed Project. The proposed Project would also require specific plan amendments to seven of the City’s specific plans (Canyon Springs Business Park, Downtown, Hunter

Business Park, La Sierra University, Magnolia Avenue, Riverside Marketplace, and University Avenue). As stated in the project description, the Housing Element update must designate exact locations where future housing can be built. The Housing Element update provides areas that could be designated for additional housing, primarily infill development close to infrastructure and other services to address the City's housing needs. This includes the development of market-rate, affordable, senior, and workforce housing; special-needs housing; housing for the homeless; and housing for those who are vulnerable to housing insecurity. The locations of the opportunity sites may abut or be within disadvantaged communities, and development of future housing under the proposed Project could physically divide an established community. In addition, it is possible that new public safety infrastructure might be constructed that could divide an established community. The impact would be potentially significant for development pursuant to the proposed Project, and this topic will be analyzed in the forthcoming EIR.

b. Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

Potentially Significant Impact. The Housing Element update addresses the State mandate to update the local housing element of the general plan and accommodate the housing allocation designated in the Southern California Association of Governments (SCAG) 6th cycle of the RHNA, adopted by SCAG in March 2021. The RHNA quantifies the need for housing within each jurisdiction during specified planning periods. The 6th cycle Housing Element update, and the RHNA, approved March 2021, specifically identifies the need for 18,458 additional homes, including 4,861 very low-income, 3,064 low-income, and 3,139 moderate-income units; 7,394 units would be above moderate-income housing (SCAG 2021).

The previously adopted Housing Element cycle, covering the 2013–2021 period, included a RHNA allocation of 10,025 units, of which only a small portion was built during the last 7 years. The increase in the City's RHNA housing number is reflective of the state's current housing crisis, due in part to the difficulty associated with enabling the construction of new homes to keep up with the need for them. In addition, the City will need to identify space for the allocation of 18,458 units plus an additional approximately 6,500 units to allow for some sites that may not be developed to full potential (net loss requirement), for a total of approximately 24,000 new homes for the 2021–2029 cycle.

Opportunity sites have been identified to accommodate future housing and mixed-use development; this includes potential redevelopment sites that will help the City meet the housing demand. The Housing Element update proposes to rezone up to 652 acres within City boundaries to accommodate a variety of housing types and densities to accommodate the needs of all income. This may result in a potentially significant impact because this requires entitlements to rezone 652 acres for residential or mixed-use development. However, the updates to the Housing Element, Public Services Element, and the zoning code and specific plan amendments, as well as the addition of environmental justice policies, are at the policy level. Construction and operation of any additional housing to be facilitated by the proposed Project would require additional environmental review to assess the project-specific impacts. This topic will be analyzed in the forthcoming EIR.

XII. Mineral Resources

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Would the proposed Project:				
a. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Affected Environment

Historically, the quarrying of granitic rock was a significant industry in Riverside. However, these operations have not been active for decades, and most extraction sites are now beyond the urban periphery (City of Riverside 2012). Although mineral extraction no longer plays a major role in Riverside's economy, the area between Market Street and Mission Boulevard, between the Santa Ana River and Lake Evans, is a state-classified mineral resource zone (MRZ) (i.e., MRZ-2) (City of Riverside 2012). Areas in the SOI and areas located generally within the eastern half of the City are designated MRZ-3, indicating that they contain known or inferred mineral occurrences of undetermined mineral resource significance (City of Riverside 2012).

Discussion

a. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

No Impact. The State Mining and Geology Board (SMGB) establishes MRZs to designate lands that contain mineral deposits (SMGB 2000). The classifications used by the state to define MRZs are as follows:

- **MRZ-1:** Areas where the available geologic information indicates no significant likelihood of significant mineral deposits.
- **MRZ-2a:** Areas where the available geologic information indicates that there are significant mineral deposits.
- **MRZ-2b:** Areas where the available geologic information indicates that there is a likelihood of significant mineral deposits.
- **MRZ-3a:** Areas where the available geologic information indicates that mineral deposits exist; however, the significance of the deposit is undetermined.
- **MRZ-3b:** Areas where the available geologic information indicates that mineral deposits are likely to exist; however, the significance of the deposit is undetermined.
- **MRZ-4:** Areas where there is not enough information available to determine the presence or absence of mineral deposits.

The proposed opportunity sites are located in areas classified MRZ-2 and MRZ-3, described in the Open Space and Conservation Element of GP 2025; however, mineral extraction does not play a major role in the City's economy and there are no known substantial mineral deposits. Development over MRZ-2 and MRZ-3 designated areas would not result in a loss of known mineral resources that would be of value to the region and residents of the state. There would be no impact related to the loss of availability of a known mineral resource that would be of value to the region and the residents of the state.

b. Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?

No Impact. Because of existing conditions within the City, implementation of the proposed Project would not result in the loss of availability of a locally important mineral resource recovery site delineated in GP 2025, a specific plan, or any other land use plan. Also, the area between Market Street and Mission Boulevard, between the Santa Ana River and Lake Evans, which is a state-classified MRZ (MRZ-2), would not be affected by the proposed Project because there are no opportunity sites in this area. Impacts would be less than significant.

XIII. Noise

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Would the proposed Project:				
a. Generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the proposed Project in excess of standards established in a local general plan or noise ordinance or applicable standards of other agencies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Generate excessive ground-borne vibration or ground-borne noise levels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Be located within the vicinity of a private airstrip or an airport land use plan, or, where such a plan has not been adopted, within two miles of a public airport or public use airport and expose people residing or working in the project area to excessive noise levels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Affected Environment

GP 2025 identifies the major sources of noise within the City. Major noise sources that currently and will in the future influence the noise environment within the City include:

- Major arterial roadway networks;
- Major freeway and interstate facilities, such as State Route 91, State Route 60 and Interstate 215;
- Railway networks for both commuter (Metrolink and Amtrak) and freight (Union Pacific and BNSF) operations;
- Airport noise, including Riverside Municipal Airport, Flabob Airport, and March Air Reserve Base; and
- Stationary noise sources for all land uses.

Other noise sources that could have the potential to affect land uses within the City would be construction noise sources.

The proposed Project would facilitate an increase in the housing stock within the City boundary. The geographic scope of the proposed Project is extensive and could be surrounded by other noise-sensitive land uses as well as many of the noise sources listed above.

Discussion

a. Generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the proposed Project in excess of standards established in a local general plan or noise ordinance or applicable standards of other agencies?

Potentially Significant Impact. Development facilitated by the proposed Project would have the potential to introduce new noise sources through the addition of new housing and other stationary sources, including public safety infrastructure, which could affect noise-sensitive land uses. The City has identified locations as opportunity sites where potential housing and mixed-use development could be sited. These locations vary considerably with respect to the surrounding noise environment; however, all locations would increase the number of vehicles accessing the local roadway and freeway/interstate network or even the commuter rail network. Other noise sources may introduce new stationary noise sources, such as HVAC systems or other stationary noise sources, that could affect surrounding land uses. In addition, any new housing, mixed-use development, or development for the purposes of public safety would require construction that would affect surrounding noise-sensitive land uses. Although any new development would be required to comply with the guidance included with the Riverside Municipal Code, specifically Chapters 7.25, 7.30, and 7.35, and the limits included in the Noise Element of GP 2025, the introduction of new noise sources could result in an increase in noise above applicable thresholds. As such, impacts could be potentially significant and could require further consideration to identify mitigation to reduce potential impacts. This topic will be analyzed in the forthcoming EIR.

b. Generate excessive ground-borne vibration or ground-borne noise levels?

Potentially Significant Impact. As discussed above, the proposed Project could result in the development, redevelopment, and construction of new housing, mixed-use development, and public safety infrastructure that would require the use of heavy construction machinery. Although the City does not include a codified threshold for vibration, the Noise Element of GP 2025 does reference guidance, plans, and legislation by such agencies as the Federal Transit Administration (FTA). The FTA's *Transit Noise and Vibration Impact Assessment Manual* (FTA 2018) includes thresholds for damage and human annoyance from vibration and ground-borne noise. These, along with the California Department of Transportation (Caltrans) thresholds, represent guidance by which any construction impacts would be analyzed. Because the proposed Project would include new construction that may require the use of vibration-producing construction equipment in proximity to vibration-sensitive land uses, impacts could be potentially significant and could require further consideration to identify mitigation to reduce potential impacts. This topic will be analyzed in the forthcoming EIR.

c. Be located within the vicinity of a private airstrip or an airport land use plan, or, where such a plan has not been adopted, within two miles of a public airport or public use airport and expose people residing or working in the project area to excessive noise levels?

Potentially Significant Impact. As discussed above, the update to the City's Housing and Public Safety Elements could result in development and redevelopment throughout the City. Because there are multiple airports within the City or in proximity to the City, some locations that are slated for new housing may be located within an airport land use plan or in proximity to an airport. Impacts could be potentially significant and could require further consideration to identify mitigation to reduce potential impacts, and this topic will be analyzed in the forthcoming EIR.

XIV. Population and Housing

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Would the proposed Project:				
a. Induce substantial unplanned population growth in an area, either directly (e.g., by proposing new homes and businesses) or indirectly (e.g., through extension of roads or other infrastructure)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Displace a substantial number of existing people or housing, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Affected Environment

Section 15126(d) of the State CEQA Guidelines requires a discussion of a proposed Project’s potential to foster economic or population growth, either directly or indirectly, including ways in which a project could remove an obstacle to growth. Implementation of the Housing and Public Safety Elements update, development of environmental justice policies, and Zoning Code and Specific Plan amendments, have the potential to induce growth, as discussed below.

Growth does not necessarily create significant physical changes to the environment. However, depending upon the type, magnitude, and location of growth, it can result in significant adverse environmental effects. The proposed Project’s growth-inducing potential would be significant if it would result in unavoidable significant effects in one or more environmental issue areas.

The City is primarily a residential community with steady population growth (i.e., approximately 40,000 new residents every decade since the 1960s) (City of Riverside 2018). The City’s population in 2020 was 328,155 (Department of Finance 2020). There are approximately 90,722 housing units in the City, and the average household size is 3.28 persons per dwelling unit (Department of Finance 2020).

Homelessness, including those living in public rights-of-way or in natural open spaces or recreational areas, is a public health concern. Homelessness is a complex social problem. Major factors that contribute to homelessness include a lack of employment opportunities and access to affordable housing, a decline in available public assistance, a lack of affordable health care, and other circumstantial issues, such as domestic violence, physical or mental illness, and drug or alcohol addiction.

Low-income and minority communities and neighborhoods occur within the City, and in general, may be disproportionately burdened by, or vulnerable to, sources of pollution and other disproportionately high and adverse impacts related to public health, social equity, and environmental justice.⁶

⁶ Environmental justice is the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies.

Discussion

a. Induce substantial unplanned population growth in an area, either directly (e.g., by proposing new homes and businesses) or indirectly (e.g., through extension of roads or other infrastructure)?

Potentially Significant Impact. The proposed Project includes goals to encourage housing, meet the City's housing needs with diverse household types, and provide for households that are vulnerable to housing insecurity. The expectation is that as growth occurs, consistent with GP 2025, housing would serve all income levels, including very low-, low-, moderate-, and above moderate-income residents and special-needs residents. The proposed Project is a policy-level planning effort that encourages and facilitates the development and redevelopment of a range of housing types and affordability levels while facilitating mixed-use development and public safety infrastructure. The proposed Project does not include specific development proposals. Because of the rezoning of sites, there would be an increase in the number of new housing units between 2021 and 2029, up to approximately 24,000 to fulfill the RHNA. Rezoning that would occur as part of the proposed Project would allow for development of up to 30,190 housing units. Based on the City's current Housing Element, the average household size is 3.28 persons per dwelling unit. The rezoning of opportunity sites has the potential to increase the City's population if all housing units are constructed and all residents are new to the City (City of Riverside 2018). It is also possible that existing residents that are currently sharing homes may locate to new units. According to SCAG, the population of the City is projected to increase to 395,800 by 2045, which represents an increase of 20.61 percent from the 2020 population of 328,155 (Department of Finance 2020). This increase in population resulting from 30,190 new housing units would result in population increase that would be greater than the 2045 population projection of 67,645 new residents. As such, impacts could be potentially significant by inducing substantial unplanned population growth in an area either directly or indirectly. This topic will be analyzed in the forthcoming EIR.

b. Displace a substantial number of existing people or housing, necessitating the construction of replacement housing elsewhere?

Less-than-Significant Impact. The proposed Project is a policy-level planning effort that encourages and facilitates the development and redevelopment of a range of housing types and affordability levels. The proposed Project does not include specific development proposals. Because of the sites to be rezoned are located throughout the City, the potential exists for an increase in the number of new housing units, up to approximately 30,190. Some redevelopment could result in the removal of existing housing (up to 222 DU), but this is anticipated to be minimal and would not displace a substantial number of people or existing housing units. Any existing units removed through redevelopment would be replaced with new units. The impact would be less than significant.

XV. Public Services

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Would the proposed Project:				
a. Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities or a need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the following public services:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fire protection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Police protection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Schools?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other public facilities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Affected Environment

The RFD provides fire protection for the City. In addition to the 14 stations, the Riverside County Fire Department (RCFD) provides service to unincorporated territory within the City’s SOI.

The Riverside Police Department (RPD) provides police protection services to the City. Three RPD stations and one aviation support site are located in Riverside. The RPD does not use a formula for calculating the number of officers per capita. Instead, staffing for the RPD is based on business and residential growth and evaluated on a project-by-project basis.

The City is served by two public school districts, the Riverside Unified School District (RUSD) and the Alvord Unified School District (AUSD). RUSD’s 47 schools include 30 elementary schools, one special-education preschool, six middle schools (grades 7–8), five comprehensive high schools, two continuation high schools, two alternative schools, and the Riverside Virtual School. AUSD includes 14 elementary schools, four middle schools, three comprehensive high schools, one continuation high school, and one alternative education center. Approximately 42,000 students are enrolled in grades K–12 at RUSD, and 20,000 students are enrolled at AUSD. In addition, RUSD has nearly 7,000 adult education students enrolled in its district (City of Riverside 2021a, 2021b).

The Riverside Public Library system provides library service to the City. Eight existing libraries serve the City and the Main Library replacement will be open in 2021. . The libraries offer books and e-media, wi-fi and internet access, printing services, home delivery for books and audiovisual materials, technology and literacy programs, reference and research services, public meeting rooms, and community programs. The Main Library will house 60,000 books and other materials, a community room, a bookstore space, a 100-seat community room, a 2-story City archive, and an outdoor arcade space for community events such as youth performances, farmers markets, concerts, and family festivals. Construction on the new Main Library is expected to be complete in late 2021.

Library service needs and standards are determined by the following methods: volumes by population; community need/service gaps, including services provided/not provided by other area departments and agencies; customer requests; and the innovation/success of pilot projects. The City does not collect assessed development impact fees on the library's behalf. Library funding sources include the general fund, trust funds, gift funds/donations, and grants. In addition, voters approved the Riverside Library Parcel Tax (Measure I) in November 2011 to fund library services through June 2022.

The City has many different types of parks, including population-based parks, both neighborhood and community; resource-based parks that include natural or man-made resources to serve the citywide population; and open space parks that allow public access to undeveloped natural spaces. The City has 68 parks and additional open space areas with 2,940.61 acres of City-owned parkland (City of Riverside 2020); however, only 2,595.07 acres of existing parkland is counted in the totals below (refer to Section XVI, *Recreation*). According to the City of Riverside's Comprehensive Park, Recreation, and Community Services Master Plan, adopted on February 4, 2020, the City plans to create seven new park sites in underserved areas of the City and revitalize existing parks (City of Riverside 2020).

The City currently funds the operation of nine community centers, three senior citizen centers, and two service centers. As part of the Riverside Renaissance Initiative, the Bobby Bonds Youth Opportunity Center, the Orange Terrace Community Center, and the Bordwell Childcare Center were opened.

The City is the steward of the Museum of Riverside, which is a department within the City that oversees the trust of artifacts, archives, and historic sites owned by the City. The Museum of Riverside is responsible for three historic sites, and houses more than 200,000 artifacts in its collections. The Museum also offers educational programs, special cultural events, and school programs.

Discussion

a. Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities or a need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the following public services:

Fire protection?

Potentially Significant Impact. The proposed Project could result in an increase in population of approximately 99,000 persons, which is 20.61 percent of what was anticipated under the typical growth scenario through 2045. This increase in population would result in a permanent increase in demand for fire protection services in areas served by the RFD. Significant impacts on service ratios, response times, and other performance objectives of fire protection could occur. This topic will be analyzed in the forthcoming EIR.

Police protection?

Potentially Significant Impact. The proposed Project would result in an increase in population up to approximately 99,000 persons, which is 20.61 percent of what was anticipated under the typical growth scenario through 2045. This increase in population would result in a permanent increase in demand for police protection services in areas served by the RPD. Significant impacts on service ratios, response times, performance, and other performance objectives of police protection could occur. This topic will be analyzed in the forthcoming EIR.

Schools?

Potentially Significant Impact. Future development and population growth, consistent with the proposed Project, would increase the demand for RUSD and AUSD school facilities and services over time. However, future residential development would comply with Riverside Municipal Code Chapter 16.56, School Development Fee, which establishes coordination between the City and the applicable school district to develop a school development fee for mitigating the impact of residential development on local school districts. In addition, legislation allows school districts to collect impact fees from developers of new residential and commercial uses. Pursuant to Government Code Section 65996, school fees imposed through the Education Code are deemed to be full mitigation for new development projects; the City cannot impose additional mitigation measures. School impact fees would be imposed on future development within the RUSD and AUSD services areas. Compliance with the established regulatory framework, which requires payment of school impact fees, would offset the cost of providing service for any additional students generated by new development; however, there would still be the potential for impacts.

Future development must also comply with GP 2025 Policies ED-1.1 and ED-3.1. GP 2025 Policy ED-1.1 requires an adequate level of infrastructure and services to be provided to accommodate campus growth at all educational levels. GP 2025 Policy ED-3.1 requires educational institutions to accommodate the needs of City residents. Even with compliance with the abovementioned regulatory framework, there could still be temporary or permanent capacity issues that could result in inadequate educational facilities would be available to serve the projected growth in population. As such, impacts related to schools would be potentially significant and this topic will be analyzed in detail in the EIR.

Parks?

Potentially Significant Impact. The existing parkland-to-resident ratio is 7.91 acres per 1,000 residents. Implementation of the proposed Project would increase the population by approximately 99,000, resulting in a population of 427,065 and decreasing the ratio to 6.08 acres per 1,000 residents. Although the parkland-to-resident ratio could be lowered with implementation of the proposed Project, the projected parkland-to-resident ratio would remain compliant with both the current standard of 3 acres per 1,000 residents and the suggested standard of 5 acres per 1,000 residents (City of Riverside 2020). In addition, the City would continue to meet the ratio for developed and natural parks and would not experience a parkland deficiency. Impacts from the proposed Project related to the demand for parks would be less than significant. The proposed Project would allow build-out of up to 30,190 dwelling units, which would result, if all units were constructed and all were occupied by residents new to the City, in a population increase of up to 99,000 persons. While the parks-to-resident ratio may still meet City goals, deterioration of existing parks and recreational facilities may occur in localized areas. In addition, the increase in population may result in the need for construction of new parks or recreation facilities, the construction of which could result in significant environmental impacts. Impacts related to parks will be analyzed in detail in the EIR.

Other public facilities?

Potentially Significant Impact. As discussed in Section XIV, *Population and Housing*, estimated population growth from the proposed Project, including rezoning, has the potential to increase the City's population by approximately 99,000, which is 20.61 percent of protected population growth for 2045. This increase in population would permanently increase the demand for other public services, such as libraries, community centers, and museums. Significant impacts could occur due to the demand for additional public facilities or services. This topic will be analyzed in the forthcoming EIR.

XVI. Recreation

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Would the proposed Project:				
a. Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Affected Environment

The City has 68 parks and additional open space areas with approximately 2,940.61 acres of City-owned parkland (City of Riverside 2020). According to the City’s Comprehensive Park, Recreation, and Community Services Master Plan, adopted on February 4, 2020, the City plans to create seven new park sites in underserved areas of the City and revitalize existing parks (City of Riverside 2020). The City is currently preparing a Trails Master Plan update that will be used to address and guide development of new trails in the City.

The City’s Comprehensive Park, Recreation, and Community Services Master Plan defines parks as areas that are “intended as public green space where City dwellers can escape from the rush of urban life.” The City categorizes its parks into three categories: Developed Parks, Natural Parks, and Miscellaneous Facilities (City of Riverside 2020).

Discussion

a. Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

Potentially Significant Impact. The City currently has 2,940.61 acres of existing parkland; however, spaces categorized as Undeveloped City-owned Property cannot be included in the parkland-to-resident ratio analysis, as determined by the City’s Comprehensive Park, Recreation, and Community Services Master Plan (City of Riverside 2020). Approximately 345.54 acres of parkland in the City is categorized as Undeveloped City-owned Property. For the purposes of the parkland-to-resident ratio analysis, the City currently has 2,595.07 acres of existing parkland. Implementation of the proposed Project would not add any open space or parkland in the City. The City has limited or eliminated opportunity sites that were designated as open space as well as any areas that contain a sensitive habitat or species.

The Parks and Recreation Element of GP 2025 currently has an adopted standard of 3 acres per 1,000 residents (City of Riverside 2012). This is further broken down to 2 acres of neighborhood park land per 1,000 persons and 1 acre of community park land per 1,000 residents (City of Riverside 2012). The City of Riverside’s Comprehensive Park, Recreation, and Community Services Master Plan recommends increasing this standard to 5 acres per 1,000 residents (City of Riverside 2020).

The City of Riverside parkland ratio goals versus parkland ratios with implementation of the proposed Project would decrease the parkland-to-resident ratio. The 2020 City population was approximately 328,155 (Department of Finance 2020). The existing parkland-to-resident ratio is 7.91 acres per 1,000 residents. Although the parkland-to-resident ratio could be lowered with implementation of the proposed Project, the projected parkland-to-resident ratio would remain compliant with both the current standard of 3 acres per 1,000 residents and the suggested standard of 5 acres per 1,000 residents. The City would continue to meet the ratio for developed and natural parks with implementation of the proposed Project. While the parks-to-resident ratio may still meet City goals, deterioration of existing parks and recreational facilities may occur in localized areas. Significant impacts could occur due to this demand for existing recreational facilities in the City if all units were constructed and all were occupied by residents new to the City. This topic will be analyzed in the forthcoming EIR.

b. Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?

Potentially Significant Impact. The proposed Project does not propose recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment. However, the proposed Project would facilitate the development and redevelopment of housing and mixed-use development throughout the City, and new residents would increase the demand for parks and recreational facilities in the areas of the opportunity sites. Although the parkland-to-resident ratio could be lowered with implementation of the proposed Project, the projected parkland-to-resident ratio would remain compliant with both the current standard of 3 acres per 1,000 residents and the suggested standard of 5 acres per 1,000 residents. While the parks-to-resident ratio may still meet City goals, the need to construct or expand additional parks in potentially new areas of the City could occur if all units were constructed and all were occupied by residents new to the City. In addition, the increase in population may result in the need for construction of other new recreation facilities, including playgrounds, ballfields, and/or community centers, the construction of which could result in significant environmental impacts. Significant impacts could occur as the construction or expansion of new recreational facilities could result in adverse physical effects on the environment. This topic will be analyzed in the forthcoming EIR.

XVII. Transportation

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Would the proposed Project:				
a. Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Conflict or be inconsistent with State CEQA Guidelines section 15064.3, subdivision (b)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Substantially increase hazards because of a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. Result in inadequate emergency access?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Affected Environment

The existing roadway network, bikeways, local transit services, and planned roadway, bikeway, and transit improvements in the area are described in GP 2025, Circulation and Community Mobility Element. The regional road network within the City includes Interstate 215, State Route 91, and State Route 60. The major arterial street layout for the City forms a grid pattern. The City has an active Neighborhood Traffic Management Program⁷ to minimize and/or prevent the intrusion of cut-through traffic into residential neighborhoods. Transit services are provided by the Riverside Transit Agency, Sunlight Transit Agency, Metrolink, and Amtrak. The City has four park-and-ride facilities for commuters as well as bicycle and pedestrian facilities, such as bike lanes, bike routes, trails, sidewalks and paths, trails, crossing facilities, and curb treatments throughout the City.

Vehicle-miles-traveled (VMT) data from the Riverside Traffic Analysis Model (RIVTAM) show that:

- Riverside VMT per service population is 6 percent lower than the average for western Riverside County, and
- Total VMT per household (i.e., total VMT in the City divided by the number of households) is higher than that of the region. The higher VMT per household is likely an indication that Riverside attracts people from the surrounding region more so than other jurisdictions, generating VMT from visitors and employees at a higher rate than other cities. This could be due to the City's robust downtown, multiple university campuses, employment areas, and commercial uses that attract regional trips.

The VMT summary for the City is provided in Table 1.

⁷ City of Riverside, Public Works Department. n.d. *Neighborhood Traffic Management Program*. Available: <https://riversideca.gov/publicworks/traffic/pdf/NeighborhoodTrafficManagement.pdf>.

Table 1. Riverside VMT Summary

Total VMT	City of Riverside	Riverside County	Western Riverside County	SCAG Region
VMT per Service Population	27.8	29.3	29.8	24.3
VMT per Household	130.1	120.9	126.4	106.4

Source: Fehr & Peers, 2021;RIVTAM Base Year (2012).

The City of Riverside Active Transportation Plan is currently being developed to integrate walking, bicycling, and other transportation modes into a single plan that includes policies, infrastructure recommendations, and supporting programs and implementation strategies to improve mobility and congestion. In addition to the GP 2025, other city plans related to transportation and traffic include Pedestrian Target Safeguarding Plan, Active Transportation Plan, the Complete Streets Ordinance, and the Trails Master Plan (PACT).

Discussion

a. Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?

Potentially Significant Impact. The proposed Project would not directly result in any activities that would conflict with a program, plan, ordinance, or policy regarding the circulation system, including transit, roadway, bicycle, and pedestrian facilities. Future development would be subject to individual review to determine consistency with applicable programs, plans, ordinances, and policies and determine if any additional analysis and project-specific mitigation measures are needed. However, construction of up to 30,190 housing units and up to 11,501,959 sf of other uses per the Housing Element update, would result in additional vehicles on the existing roadway network. Although adding housing and increasing the number of vehicles would not necessarily conflict with programs, plans, ordinances, or policies, the proposed Project could prohibit future programs, plans, ordinances, or policies (i.e., GP 2025, Trails Master Plan, Bicycle Master Plan, etc.). As such, this impact is potentially significant, and further analysis will be provided in the forthcoming EIR.

b. Conflict or be inconsistent with State CEQA Guidelines section 15064.3, subdivision (b)?

Potentially Significant Impact. State CEQA Guidelines Section 15064.3(b) requires CEQA documents for land use and transportation projects to evaluate impacts of projects on VMT. The proposed Project would not directly result in any activities that would conflict with or be inconsistent with State CEQA Guidelines. However, construction of an additional 30,190 housing units, or more, and other nonresidential development in the City, per the Housing Element update, would result in additional VMT over the 8-year period. This impact is potentially significant, and further analysis will be provided in the forthcoming EIR.

c. Substantially increase hazards because of a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

Less-than-Significant Impact. The proposed Project would not directly result in any activities that would substantially increase hazards because of a geometric design feature through implementation of policy changes and updates. Although construction of an additional 30,190 housing units to be facilitated by the proposed Project as well as other nonresidential development in the City would not necessarily result in direct traffic hazards (i.e., vehicle, bicyclist, pedestrian accidents), the proposed Project would be policy based; as such, projects may not yet be designed that could lead to traffic

hazards, although further review is required. However, future roadways would be designed in compliance with City of Riverside codes and standards (chapter 19.102), which would be verified in design review and plan check on a project-by-project basis. This impact would be less than significant.

d. Result in inadequate emergency access?

Potentially Significant Impact. The proposed Project would not directly result in any activities that would result in inadequate emergency access. Construction of up to approximately 30,190 housing units and other nonresidential development, per the Housing Element update, could require additional public services for future residents. The proposed Project is not expected to impair emergency access because opportunity sites are proposed near essential services. GP 2025 contains policies to encourage development of safe transportation systems and ensure that development does not conflict with emergency response or access during project operations. The updates to the Public Safety Element as part of the proposed Project would also address emergency preparedness and response, including the provision of high-quality and responsive emergency management services to all residents and businesses in the City. During construction, traffic in the surrounding areas is anticipated to be minimal and limited to on-site construction-related equipment entering and exiting the individual project areas. Once construction activities are completed, all roadways would be restored to their previous condition or be improved to accommodate growth in compliance with City requirements for individual development projects. However, each project will require evaluation for emergency access, since site plans are unknown, and implementation of the proposed Project could result in inadequate access for any emergency response entities. Impacts would be potentially significant and the topic will be evaluated in detail in the EIR.

XVIII. Tribal Cultural Resources

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Would the proposed Project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
a. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Affected Environment

A Tribal Cultural Resource (TCR) is a site, feature, place, cultural landscape, sacred place, or object that is of cultural value to a recognized Native American tribe. The resource may be in or eligible for listing in CRHR or a local historic register, or a lead agency may choose to treat a resource as a TCR. The City is located near an ethnographic transition zone between the Gabrielino/Tongva, Serrano, Luiseño, and Cahuilla Native American tribes. All four groups are speakers of Tatic languages, which are part of the Uto-Aztecan linguistic stock. Detailed ethnohistoric discussions will be provided in the forthcoming EIR.

CEQA requires public agencies to evaluate the implications of their project(s) on the environment and include significant historic resources as part of the environment. According to the California Code of Regulations, Title 14, Section 15064.5, public agencies must treat any cultural resource as significant, unless the preponderance of evidence demonstrates that it is not historically or culturally significant. On September 25, 2014, California Governor Jerry Brown signed into law AB 52, which amended PRC Section 5097.94 and added Sections 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2, and 21084.3 to establish a new category of environmental resources that must be considered under CEQA, TCRs. For projects with applications filed on or after July 1, 2015, lead agencies are also required to consult with California Native American tribes that are traditionally and culturally affiliated with the geographic area of a future development facilitated by the proposed Project if the tribe requested to the lead agency, in writing, to be informed by the lead agency of proposed projects in the geographic area and the tribe requests consultation prior to determining whether a negative declaration, mitigated negative declaration, or EIR is required for a project.

SB 18, California Government Code Section 65352.3, enacted in 2004, requires local governments to consult with Native American tribes at the earliest point in the local government land use planning process. It establishes responsibilities for local governments to contact, refer plans to, and consult with California Native American tribes as part of adoption or amendment of any general or specific plan proposed on or after March 1, 2005. SB 18 requires public notice to be sent to tribes listed on the NAHC's SB 18 Tribal Consultation List within the geographical areas affected by proposed changes. Tribes must respond to the CEQA lead agency within 90 days and indicate whether they want to consult. Consultations are for the purpose of establishing meaningful dialogue regarding preserving or mitigating impacts on places, features, and objects described in Sections 5097.9 and 5097.993 of the PRC that may be affected by the proposed adoption of or amendment to a general or specific plan.

Discussion

a. Would the proposed Project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?

Potentially Significant Impact. Although efforts will be made by the City to exclude any areas of known tribal cultural resources from proposed development, as-yet unknown tribal cultural resources on vacant lots or other opportunity sites may be present. It is possible that such resources would be eligible for listing in the CRHR or a local register of historic resources, as defined in PRC Section 5020.1(k). As defined in PRC Section 5020.1(k), a local register of historical resources means a list of properties officially designated or recognized as historically significant by a local government, pursuant to a local ordinance or resolution. Because the City will screen proposed locations for development, it is not likely that locations identified on local registers would be selected. For future proposed locations of development, a cultural resources records search and consultation with affiliated Native American tribes will determine whether locally registered historic resources would be adversely affected.

Because future development facilitated by the proposed Project has the potential to affect tribal cultural resources, defined in PRC Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, this potential impact will be analyzed in the forthcoming EIR. The results of consultation with traditionally and culturally affiliated tribes will also be incorporated into the forthcoming EIR.

b. Would the proposed Project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1?

Potentially Significant Impact. In compliance with AB 52, the City will conduct a Sacred Lands File search through the NAHC to determine if Native American traditional sites or places are within proposed development areas. In addition, the City will conduct consultation with Native American tribes that have requested to be consulted, per the guidelines set forth in AB 52.

Because the proposed Project would involve amendments to the GP 2025 and seven specific plans, per SB 18, the City will send project notification/consultation letters to the tribes listed on the NAHC Tribal Consultation List. The City will consult with those tribes requesting consultation to determine if significant Native American traditional sites or places are within proposed development areas. Because future developments have the potential to affect tribal cultural resources, defined in PRC Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe and determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of PRC Section 5024.1, this potential impact will be analyzed in the forthcoming EIR. The results of consultation with traditionally and culturally affiliated tribes, per AB 52 and SB 18, will also be incorporated into the EIR.

XIX. Utilities and Service Systems

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Would the proposed Project:				
a. Require or result in the relocation or construction of new or expanded water, wastewater treatment, stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Have sufficient water supplies available to serve the proposed Project and reasonably foreseeable future development during normal, dry, and multiple dry years?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Result in a determination by the wastewater treatment provider that serves or may serve the proposed Project that it has adequate capacity to serve the proposed Project's projected demand in addition to the provider's existing commitments?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Affected Environment

Water is provided mainly by RPU in the City, which supplied 74,928 acre-feet (AF), or 24,415 million gallons, of water to 295,000 people within its service area in 2015. The 2015 Urban Water Management Plan projects that RPU will supply 124,703 AF (40,634 million gallons) of water by 2040 to meet increasing demand under anticipated buildout from GP 2025. In 2015, RPU received 75,126 AF of water from two sources. Approximately 99 percent (74,926 AF) was local groundwater; less than 1 percent (200 AF) was recycled water from the Regional Water Quality Control Plant (City of Riverside Public Utilities Department 2016).

The Western Municipal Water District also provides water in an approximately 10-square-mile area in the southeast part of the City. In 2015, the Western Municipal Water District received 78,852 AF of water from three sources. Approximately 82 percent (64,371 AF) was imported and purchased from the Metropolitan Water District or the Meeks and Daley Water Company; approximately 11 percent (8,481 AF) was from the Western Municipal Water District's existing desalter system, groundwater, and recycled supplies; and approximately 8 percent (6,000 AF) was banked water from extraordinary supplies; refer to the Western Municipal Water District Urban Water Management Plan, Chapter 6, System Supplies (City of Riverside Public Utilities Department 2016).

The City of Riverside Public Works Department provides for the collection, treatment, and disposal of nearly all wastewater generated within the City through its Riverside Regional Water Quality Treatment Plant and complies with state and federal requirements governing the treatment and discharge of wastewater. According to the City's Wastewater Collection and Treatment Facilities Integrated Master Plan (Integrated Master Plan), the City's wastewater service area includes more than 800 miles of sewer gravity mains, ranging in diameter from 6 to 48 inches. The City also operates 18 wastewater pump stations, which range in size from 100 gallons per minute (gpm) to 2,000 gpm (City of Riverside 2008). Small areas of the City are served by septic systems.

The City of Riverside Public Works Department is responsible for the collection and disposal of approximately 70 percent of the City's residential solid waste. The remainder of the City's solid waste disposal needs are met by a private contractor, Burrtec Waste. Non-hazardous waste is processed through the County of Riverside-owned Robert A. Nelson Transfer Station under a 20-year contract (California Integrated Waste Management Board 2002). Waste is then transferred to the Badlands Landfill for disposal. In addition, the Riverside County Department of Waste Resources operates four other landfills that also serve the City, Blythe, Desert Center, Lamb Canyon, and Oasis landfills. The City is also served by the El Sobrante Landfill, which is operated by Waste Management, Inc. All landfills are Class III disposal sites. The Riverside County Department of Waste Resources operates the Agua Mansa Permanent Household Hazardous Waste Facility, which provides the City a location for hazardous household waste disposal.

The California Integrated Waste Management Act, under the PRC, required local jurisdictions to divert at least 50 percent of all solid waste by January 1, 2000. The City is currently achieving a 69 percent diversion rate, well above state requirements. In addition, CALGreen required all developments to divert 50 percent of nonhazardous construction and demolition debris and 100 percent of excavated soil and debris from land clearing associated with all nonresidential projects beginning January 1, 2011 (California Legislative Information 2021).

Discussion

a. Require or result in the relocation or construction of new or expanded water, wastewater treatment, stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

Potentially Significant Impact. Development and population growth facilitated by the proposed Project would require the installation of water, wastewater, electrical, natural gas, and telecommunication connections to existing utilities outside development boundaries. Development and redevelopment would also require stormwater drainage improvements. The potential exists for significant environmental impacts from the installation of these connections. This topic will be evaluated in the forthcoming EIR.

b. Have sufficient water supplies available to serve the proposed Project and reasonably foreseeable future development during normal, dry, and multiple dry years?

Potentially Significant Impact. Development and population growth facilitated by the proposed Project would result in increased demand for potable and nonpotable water. As described above, the City receives water mainly from RPU; however, southeast Riverside receives water from the Western Municipal Water District. With the addition of up to 30,190 housing units and as much as 11,501,959 square feet of non-residential uses, future development would result in additional water demands compared with existing conditions. The proposed Project would have the potential to result in significant impacts on water supplies, and this topic will be further analyzed in the forthcoming EIR.

c. Result in a determination by the wastewater treatment provider that serves or may serve the proposed Project that it has adequate capacity to serve the proposed Project's projected demand in addition to the provider's existing commitments?

Potentially Significant Impact. Development and population growth facilitated by the proposed Project would result in additional demand for wastewater treatment from the City's wastewater treatment provider. This increase could exceed the treatment capacity of wastewater treatment facilities that serve the City. As the proposed Project has the potential to result in significant impacts on water treatment demand, this topic will be further analyzed in the forthcoming EIR.

d. Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Potentially Significant Impact. Development and population growth facilitated by the proposed Project would result in a permanent increase in solid waste disposal demands compared with existing conditions. Future development would also involve temporary construction-related solid waste demands. This increase in solid waste flow could exceed the permitted capacity of landfills that serve the City. The potential exists for significant impacts from an increase in solid waste disposal demands, and this topic will be further analyzed in the forthcoming EIR.

e. Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

Less-than-Significant Impact. Development and redevelopment facilitated by the proposed Project would comply with City waste disposal requirements as well as CALGreen requirements; as such, the proposed Project would not conflict with any federal, state, or local regulations related to solid waste. The impact would be less than significant.

XX. Wildfire

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the proposed Project:				
a. Substantially impair an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Due to slope, prevailing winds, and other factors, exacerbate wildfire risks of, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines, or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Affected Environment

This section describes the existing wildfire conditions within the City, identifies associated regulatory requirements, and evaluates potential impacts related to implementation of the proposed Project.

No part of the City is immune to fire danger. Structural and automobile fires represent the most common types of fire in urban areas and can be caused by a variety of human, mechanical, and natural factors. Urban fires have the potential to spread to other structures or areas, particularly if not quickly extinguished. Proactive efforts, such as fire sprinkler systems, fire alarms, fire-resistant roofing, and construction methods, can collectively lessen the likelihood and reduce the severity of urban fires. Areas of dense, dry vegetation, particularly in canyon areas and on hillsides, pose the greatest potential for wildfire risks. Development in and near these natural landscapes would increase potential risks related to fire for people and personal property. In case of fire, the City would be served by the RFD.

According to the California Fire Hazard Severity Zone Viewer, portions of the City are in areas classified as Very High Fire Hazard Severity Zones (California Department of Forestry and Fire Protection 2020).

Discussion

a. Substantially impair an adopted emergency response plan or emergency evacuation plan?

Less-than-Significant Impact. According to the GP 2025 Public Safety Element (City of Riverside 2018), the major urban/rural interface areas with a high-fire risk include Mount Rubidoux, the Santa Ana River Basin, Lake Hills, Mockingbird Canyon/Monroe Hills, Sycamore Canyon, Box Springs Mountain, and La Sierra/Norco Hills. The introduction of residential and non-residential development into this natural landscape would increase potential risks related to fire for people and property.

As discussed in Section IX, *Hazards and Hazardous Materials*, the RFD ensures multi-jurisdictional cooperation and communication for emergency planning and response management through activation of the SEMS. Also, the City and Riverside County prepared the Riverside County Operational Area Multi-Jurisdictional Local Hazard Mitigation Plan (LHMP - most recent iteration was prepared in July 2018). The purpose of the LHMP is to identify Riverside County's hazards (including those within the City), review and assess past disaster occurrences, estimate the probability of future occurrences, and set goals to mitigate potential risks and reduce or eliminate long-term risks for people and property from natural and man-made hazards (County of Riverside 2018).

GP 2025 includes several policies related to emergency plan implementation. Policies PS-9.1 and PS-9.3 require the City to maintain and test the City's Emergency Operations Plan. Policy PS-9.5 ensures that the City will provide information to the public regarding disaster preparedness. Policy PS-9.7 and PS-9.8 require the City to identify actions to reduce the severity and risk to the community from hazards. Policy PS-10.3 ensures that public safety infrastructure and staff resources will keep pace with new development. Policy PS-10.4 ensures that development will have adequate ingress and egress. Policy PS-10.5 requires coordination to educate people about hazard safety. Policy PS-10.6 ensures coordination between the City and public safety departments. Policy PS-10.7 and Policy PS-10.8 encourage funding for emergency response programs. Policy PS-10.9 requires the City to maintain the Emergency Operations Center and allow for expansion (City of Riverside 2018).

The updates to the Public Safety Element, as part of the proposed Project, would also proactively address wildfire hazards by minimizing the risks and consequences associated with natural and man-made hazards within Riverside through the development of goals, policies, and actions. In addition, as discussed in Section XVII, *Transportation*, the proposed Project would not directly result in any activities that would result in inadequate emergency access. Construction of an additional 30,190 housing units plus other non-residential development, per the Housing Element update, could require additional public services for future residents. The proposed Project is not expected to impair emergency access because opportunity sites are proposed near essential services.

The proposed Project represent a policy-level planned effort that facilitates but does not directly implement development proposals. Future development within the City would be required to comply with local regulations, including the general plan and development code. Also, the opportunity sites identified for rezoning are in developed areas of the City or on vacant lots and not designated as open space. Impacts related to impairing an adopted emergency response or evacuation plan would be less than significant.

b. Due to slope, prevailing winds, and other factors, exacerbate wildfire risks of, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

Less-than-Significant Impact. Three primary factors are used in assessing wildfire hazards, topography, weather, and fuel. Future development facilitated by the proposed Project could be affected by weather conditions. The proposed Project would not include housing and non-residential development within wildfire hazard areas. The proposed Project is a policy-level planning effort that does not identify specific development proposals. Future development would be required to comply with local regulations, including GP 2025 and municipal code. Also, the opportunity sites identified for rezoning are largely in developed areas of the City. Impacts related to exacerbating wildfire risks would be less than significant.

c. Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines, or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts on the environment?

Less-than-Significant Impact. Future development may require new public infrastructure and utilities, which would be installed to meet fire service requirements. However, the proposed Project is a policy-level planning effort that does not provide site-specific development or design proposals. All improvements would be subject to City development standards and verified as part of either a building permit or construction approval process. As part of the standard development review process, the City's Development Review Committee, which includes the fire and building departments, evaluates developments in high fire-risk areas to ensure that improvements meet their requirements. This coordination is independent of the CEQA process; it would be unaffected by the proposed Project. Impacts related to fire risk due to the installation or maintenance of associated infrastructure would be less than significant.

d. Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

Less-than-Significant Impact. The creation of additional impermeable surfaces in association with the proposed Project could exacerbate an existing flooding issue. However, the proposed Project is a policy-level planned effort that does not provide site-specific development or design proposals. All future development would be subject to City development standards and verified as part of either a building permit or construction approval process. Impacts related to downstream flooding and drainage changes would be less than significant.

Development associated with the proposed Project would not be susceptible to landslides. Grading and construction would be completed in compliance with 2019 CBC regulations, County of Riverside ordinances, and Riverside Municipal Codes related to grading, thereby reducing the potential for slope instability to occur. Also, opportunity sites are not proposed on the steepest slopes or within flood hazard areas. In addition, implementation of the proposed Project would not directly or indirectly result in substantial adverse effects, including the risk of loss, injury, or death involving landslides. The potential for downstream flooding, as well as changes in drainage patterns, would be lessened through regulations. Given the lack of landslide evidence, compliance with CBC regulations, County of Riverside ordinances, and Riverside Municipal Codes would ensure that potential impacts associated with post-fire flooding, runoff, or slope instability would be less than significant.

XXI. Mandatory Findings of Significance

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a. Does the proposed Project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Does the proposed Project have impacts that are individually limited but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Does the proposed Project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Affected Environment

CEQA provides that an EIR shall focus on the significant effects on the environment, discussing the effects with emphasis in proportion to their severity and probability of occurrence. Pursuant to CEQA Guidelines Section 15065, an EIR must be prepared if a project may have a significant effect on the environment where any of the conditions below occur.

Discussion

a. Does the proposed Project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?

Potentially Significant Impact. A significant impact would occur only if the proposed Project would have an identified potentially significant impact on a fish or wildlife species, a plant or animal community, or historical, archeological, or paleontological resources. As discussed in Section IV, *Biological Resources*, project impacts could be potentially significant and may require mitigation. The proposed Project’s potential to adversely affect biological resources will be analyzed in the forthcoming EIR. As discussed in Section V, *Cultural Resources*, project impacts could be potentially significant and may require mitigation. The proposed Project’s potential to adversely affect cultural resources will be analyzed in the forthcoming EIR.

The proposed Project could degrade the quality of the environment, reduce, or threaten fish or wildlife species (endangered or otherwise), or eliminate important examples of the major periods of California history or pre-history. Impacts from the proposed Project are potentially significant and will be analyzed in the forthcoming EIR.

b. Does the proposed Project have impacts that are individually limited but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)

Potentially Significant Impact. The effects of the proposed Project, when combined with the effects of past, present, current, pending, and reasonably foreseeable future projects in the area, would not result in cumulatively considerable impacts for the topics found to be less-than-significant in this Initial Study.

The potential for cumulative impacts occurs when the independent impacts of the proposed Project are combined with impacts from other development in the surrounding area and result in impacts that are greater than the impacts of the proposed project alone. Current and reasonably foreseeable projects are located within the City and vicinity whose development, in conjunction with that of the proposed Project, may result in cumulative impacts. Impacts of the proposed Project on both an individual and cumulative basis will be addressed in the forthcoming EIR for the following subject areas: aesthetics, air quality, biological resources, cultural resources, GHG emissions, hazards and hazardous waste, land use and planning, noise, population and housing, public services, transportation, tribal cultural resources, and utilities and service systems.

c. Does the proposed Project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?

Potentially Significant Impact. As indicated by the analyses provided in this Initial Study, the proposed Project could produce potentially significant impacts with regard to aesthetics, air quality, biological resources, cultural resources, GHG emissions, hazards and hazardous waste, land use and planning, noise, population and housing, public services, transportation, tribal cultural resources, and utilities and service systems. As a result, these potential effects will be analyzed in the forthcoming EIR.

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XXI. Mandatory Findings of Significance

None