
MITIGATION MONITORING AND REPORTING PROGRAM

This Mitigation Monitoring and Reporting Program (MMRP) lists mitigation measures recommended in the General Plan PEIR and identifies mitigation monitoring requirements, and is intended to ensure compliance during implementation of the project.

The MMRP is organized in a matrix format. The first column identifies the mitigation measure. The second column, entitled “Mitigation Responsibility,” refers to the party responsible for implementing the mitigation measure. The third column, entitled “Monitoring/Reporting Agency,” refers to the agency responsible for oversight or ensuring that the mitigation measure is implemented. The fourth column, entitled “Monitoring Timing/Schedule,” refers to when monitoring will occur to ensure that the mitigating action is completed.

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Table A: PEIR Mitigation Monitoring and Reporting Program

Mitigation Measures	Mitigation Responsibility	Monitoring/ Reporting Agency	Monitoring Timing/Schedule
AESTHETICS			
AES-4.1: Lighting for Street and Parking Areas. Lighting systems for street and parking areas shall include shields to direct light to the roadway surfaces and parking areas. Vertical shields on the light fixtures shall also be used to direct light away from adjacent light sensitive land uses such as residences.	Project Applicant and project architect	Public Works Department (PW) and Planning and Development Department	Lighting systems to be confirmed during plan check, prior to issuance of building permits
AES-4.2: Lighting for Public Facilities. Lighting systems for public facilities such as active play areas shall provide adequate illumination for the activity; however, low intensity light fixtures and shields shall be used to minimize spillover light onto adjacent properties.	Project Applicant and project architect	PW and Planning and Development Department	Lighting systems to be confirmed during plan check, prior to issuance of building permits
AES-4.3: Lighting for Non-Residential Uses. Lighting systems for non-residential uses, not including public facilities, shall provide shields on the light fixtures and orient the lighting system away from adjacent properties. Low intensity light fixtures shall also be used if excessive spillover light onto adjacent properties will occur.	Project Applicant and project architect	PW and Planning and Development Department	Lighting systems to be confirmed during plan check, prior to issuance of building permits
AES-4.4: Signage Lighting. Lighting systems for freestanding signs shall not exceed 100 foot Lamberts (FT-L) when adjacent to streets which have an average light intensity of less than 2.0 horizontal footcandles and shall not exceed 500 FT-L when adjacent to streets which have an average light intensity of 2.0 horizontal footcandles or greater.	Project Applicant and project architect	PW and Planning and Development Department	Lighting systems to be confirmed during plan check, prior to issuance of building permits
AES-4.5: Use of Non-Reflective Materials. Materials used on building facades shall be non-reflective.	Project Applicant and project architect	PW and Planning and Development Department	Building materials to be used confirmed during plan check, prior to issuance of building permits.

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AGRICULTURE AND FORESTRY			
<p>AG-1.1: Consistent with Policy RC-9-c of the approved General Plan, the City, in coordination with regional partners or independently, shall establish a Farmland Preservation Program by 2025. The intent of the Farmland Preservation Program would be that, when Prime Farmland, Unique Farmland, or Farmland of Statewide Importance are proposed for development and converted to urban uses within the Sphere of Influence outside City limits, this program would require that the developer of such a project mitigate the loss of farmland consistent with the requirements of CEQA. The Farmland Preservation Program shall establish thresholds of significance and provide several mitigation options that may include, but are not limited to, the following:</p> <ul style="list-style-type: none"> • Restrictive Covenants or Deeds • In Lieu Fees • Mitigation Banks • Fee Title Acquisition • Conservation Easements • Land Use Regulations <p>The Farmland Preservation Program may be modeled after some or all of the programs described by the California Council of Land Trusts.</p> <p>Prior to the adoption of the Farmland Preservation Program, projects shall be required to comply with CEQA to address potential environmental impacts on an individual basis.</p>	<p>Planning and Development Department</p>	<p>Planning and Development Department</p>	<p>Ongoing. Development of the Farmland Preservation Program to be initiated immediately to be completed by 2025.</p>

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AIR QUALITY			
<p>AIR-2.1: Prior to future discretionary project approval, development project applicants shall prepare and submit to the Director of the City Planning and Development Department, or designee, a technical assessment evaluating potential project construction phase-related air quality impacts. The evaluation shall be prepared in conformance with SJVAPCD methodology for assessing construction impacts. If construction related air pollutants are determined to have the potential to exceed the SJVAPCD adopted threshold of significance, the Planning and Development Department shall require that applicants for new development projects incorporate mitigation measures into construction plans to reduce air pollutant emissions during construction activities. The identified measures shall be included as part of the Project Conditions of Approval. Possible mitigation measures to reduce construction emissions include but are not limited to:</p> <ul style="list-style-type: none"> • Install temporary construction power supply meters on site and use these to provide power to electric power tools whenever feasible. If temporary electric power is available on site, forbid the use of portable gasoline- or diesel-fueled electric generators. • Use of diesel oxidation catalysts and/or catalyzed diesel particulate traps on diesel equipment, as feasible. • Maintain equipment according to manufacturers’ specifications. • Restrict idling of equipment and trucks to a maximum of 5 minutes (per California Air Resources Board [CARB] regulation). • Phase grading operations to reduce disturbed areas and times of exposure. • Avoid excavation and grading during wet weather. • Limit on-site construction routes and stabilize construction entrance(s). • Remove existing vegetation only when absolutely necessary. • Sweep up spilled dry materials (e.g., cement, mortar, or dirt track-out) immediately. Never attempt to wash them away with water. Use only minimal water for dust control. • Store stockpiled materials and wastes under a temporary roof or secured plastic sheeting or tarp. 	<p>Project Applicant and qualified air quality consultant</p>	<p>Planning and Development Department</p>	<p>Assessments completed in conformance with SJVAPCD methodology to be completed during environmental review and prior to approval of discretionary project. The City shall ensure that project-specific mitigation is incorporated into project plans for approval prior to issuance of any grading or construction permits.</p>

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Mitigation Measures	Mitigation Responsibility	Monitoring/ Reporting Agency	Monitoring Timing/Schedule
<p>AIR-2.2: Prior to future discretionary project approval, development project applicants shall prepare and submit to the Director of the City Planning and Development Department, or designee, a technical assessment evaluating potential project operation-related air quality impacts. The evaluation shall be prepared in conformance with SJVAPCD methodology in assessing air quality impacts. If operation-related air pollutants are determined to have the potential to exceed the SJVAPCD-adopted thresholds of significance, the Planning and Development Department shall require that applicants for new development projects incorporate mitigation measures to reduce air pollutant emissions during operational activities. The identified measures shall be included as part of the Project Conditions of Approval. Possible mitigation measures to reduce long-term emissions include but are not limited to:</p> <ul style="list-style-type: none"> • For site-specific development that requires refrigerated vehicles, the construction documents shall demonstrate an adequate number of electrical service connections at loading docks for plugging in the anticipated number of refrigerated trailers to reduce idling time and emissions. • Applicants for manufacturing and light industrial uses shall consider energy storage (i.e., battery) and combined heat and power (CHP, also known as cogeneration) in appropriate applications to optimize renewable energy generation systems and avoid peak energy use. • Site-specific developments with truck delivery and loading areas and truck parking spaces shall include signage as a reminder to limit idling of vehicles while parked for loading/unloading in accordance with CARB Rule 2845 (13 California Code of Regulations [CCR] Chapter 10, Section 2485). • Require that 240-volt electrical outlets or Level 3 chargers be installed in parking lots that would enable charging of neighborhood electric vehicles (NEVs) and/or battery powered vehicles. • Maximize use of solar energy including solar panels; installing the maximum possible number of solar energy arrays on building roofs throughout the city to generate solar energy. • Maximize the planting of trees in landscaping and parking lots. • Use light-colored paving and roofing materials. • Require use of electric or alternatively fueled street-sweepers with HEPA filters. • Require use of electric lawn mowers and leaf blowers. • Utilize only Energy Star heating, cooling, and lighting devices, and appliances. • Use of water-based or low volatile organic compound (VOC) cleaning products. 	<p>Project Applicant and qualified air quality consultant</p>	<p>Planning and Development Department</p>	<p>Assessments completed in conformance with SJVAPCD methodology to be completed during environmental review and prior to approval of discretionary project. The City shall ensure that project-specific mitigation is incorporated into project plans for approval prior to issuance of any grading or construction permits.</p>

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<p>AIR-3.1: Prior to future discretionary approval for projects that require environmental evaluation under CEQA, the City of Fresno shall evaluate new development proposals for new industrial or warehousing land uses that: (1) have the potential to generate 100 or more truck trips per day or have 40 or more trucks with operating diesel-powered transport refrigeration units, and (2) are within 1,000 feet of a sensitive land use (e.g., residential, schools, hospitals, or nursing homes), as measured from the property line of the project to the property line of the nearest sensitive use. Such projects shall submit a Health Risk Assessment (HRA) to the City Planning and Development Department. The HRA shall be prepared in accordance with policies and procedures of the most current State Office of Environmental Health Hazard Assessment (OEHHA) and the SJVAPCD. If the HRA shows that the incremental health risks exceed their respective thresholds, as established by the SJVAPCD at the time a project is considered, the Applicant will be required to identify and demonstrate that best available control technologies for toxics (T-BACTs), including appropriate enforcement mechanisms to reduce risks to an acceptable level. T-BACTs may include, but are not limited to:</p> <ul style="list-style-type: none"> • Restricting idling on site or electrifying warehousing docks to reduce diesel particulate matter; • Requiring use of newer equipment and/or vehicles; • Provide charging infrastructure for: electric forklifts, electric yard trucks, local drayage trucks, last mile delivery trucks, electric and fuel-cell heavy duty trucks; and/or • Install solar panels, zero-emission backup electricity generators, and energy storage to minimize emissions associated with electricity generation at the project site. <p>T-BACTs identified in the HRA shall be identified as mitigation measures in the environmental document and/or incorporated into the site plan.</p>	<p>Project Applicant and qualified air quality consultant</p>	<p>Planning and Development Department</p>	<p>HRA to be completed during environmental review and prior to approval of discretionary project. The City shall ensure that project-specific mitigation is incorporated into project plans for approval prior to issuance of any grading or construction permits.</p>
<p>AIR-3.2: Locate sensitive land uses (e.g., residences, schools, and daycare centers) to avoid incompatibilities with recommended buffer distances identified in the most current version of the CARB Air Quality and Land Use Handbook: A Community Health Perspective (CARB Handbook). Sensitive land uses that are within the recommended buffer distances listed in the CARB Handbook shall provide enhanced filtration units or submit a Health Risk Assessment (HRA) to the City. If the HRA shows that the project would exceed the applicable SJVAPCD thresholds, mitigation measures capable of reducing potential impacts to an acceptable level must be identified and approved by the City.</p>	<p>Project Applicant and qualified air quality consultant</p>	<p>Planning and Development Department</p>	<p>HRA to be completed during environmental review and prior to approval of discretionary project. The City shall ensure that project-specific mitigation is incorporated into project plans for approval prior to issuance of any grading or construction permits.</p>

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<p>AIR-4.1: Require developers of projects with the potential to generate significant odor impacts as determined through review of SJVAPCD odor complaint history for similar facilities and consultation with the SJVAPCD, to prepare an odor impact assessment and to implement odor control measures recommended by the SJVAPCD or the City as needed to reduce the impact to a level deemed acceptable by the SJVAPCD. The City’s Planning and Development Department shall verify that all odor control measures have been incorporated into the project design specifications prior to issuing a permit to operate.</p>	<p>Project Applicant and qualified air quality consultant</p>	<p>Planning and Development Department</p>	<p>Odor impact assessment to be completed during environmental review of and prior to approval of discretionary project. The City shall ensure that project-specific mitigation is incorporated into project plans for approval prior to issuance of occupancy permits or permits to operate.</p>
<p>BIOLOGICAL RESOURCES</p>			
<p>BIO-1.1: Construction of a proposed project shall avoid, where possible, vegetation communities that provide suitable habitat for a special-status species known to occur within the Planning Area. If construction within potentially suitable habitat must occur, the presence/absence of any special-status plant or wildlife species must be determined prior to construction, to determine if the habitat supports any special-status species. If a special-status species are determined to occupy any portion of a project site, avoidance and minimization measures shall be incorporated into the construction phase of a project to avoid direct or incidental take of a listed species to the greatest extent feasible. Specific mitigation measures for direct or incidental impacts to special-status species shall be determined on a case-by-case basis through agency consultation during the review process for discretionary projects, and shall be consistent with survey protocols and mitigations measures recommended by the agency at the time of consultation.</p>	<p>Project Applicant and qualified biologist</p>	<p>Planning and Development Department</p>	<p>Biological Resources Assessment to be completed during environmental review and prior to approval of discretionary project. The City shall ensure that project-specific mitigation is incorporated into project plans for approval prior to issuance of any grading or construction permits.</p>
<p>BIO-1.2: Direct or incidental take of any state or federally listed species shall be avoided to the greatest extent feasible. If construction of a proposed project will result in the direct or incidental take of a listed species, consultation with the resources agencies and/or additional permitting may be required. Agency consultation through the CDFW 2081 and USFWS Section 7 or Section 10 permitting processes shall take place prior to any action that may result in the direct or incidental take of a listed species. Specific mitigation measures for direct or incidental impacts to special-status species shall be determined on a case-by-case basis through agency consultation during the review process for discretionary projects, and shall be consistent with survey protocols and mitigations measures recommended by the agency at the time of consultation.</p>	<p>Project Applicant and qualified biologist</p>	<p>Planning and Development Department, California Department of Fish and Wildlife (CDFW), U.S. Fish and Wildlife Service (USFWS)</p>	<p>Biological Resources Assessment to be completed during environmental review of project and prior to approval of discretionary project. The City shall ensure that environmental review and agency consultation is completed prior to issuance of any grading or construction permits. Specifications regarding timing of surveys shall be determined by project-specific mitigation measures.</p>

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<p>BIO-1.3: Development within the Planning Area shall avoid, where possible, special-status natural communities and vegetation communities that provide suitable habitat for special-status species. If a proposed project will result in the loss of a special-status natural community or suitable habitat for special-status species, compensatory habitat-based mitigation is required under CEQA and CESA. Mitigation shall consist of preserving on-site habitat, restoring similar habitat or purchasing off-site credits from an approved mitigation bank. Compensatory mitigation shall be determined through consultation with the City and/or resource agencies. An appropriate mitigation strategy and ratio shall be agreed upon by the developer and lead agency to reduce project impacts to special-status natural communities to a less than significant level. Agreed-upon mitigation ratios shall depend on the quality of the habitat and presence/absence of a special-status species. Specific mitigation measures for direct or incidental impacts to special-status natural communities and vegetation communities shall be determined on a case-by-case basis through agency consultation during the review process for discretionary projects, and shall be consistent with survey protocols and mitigations measures recommended by the agency at the time of consultation.</p>	<p>Project Applicant and qualified biologist</p>	<p>Planning and Development Department, CDFW</p>	<p>Biological Resources Assessment to be completed during environmental review of project and prior to approval of discretionary project. The City shall ensure that any required compensatory mitigation is determined prior to project approval.</p>

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<p>BIO-1.4: Proposed projects within the Planning Area should avoid, if possible, construction within the general nesting season of February through August for avian species protected under Fish and Game Code 3500 and the Migratory Bird Treaty Act (MBTA), if it is determined that suitable nesting habitat occurs on a project site. If construction cannot avoid the nesting season, a pre-construction clearance survey shall be conducted by a qualified biologist to determine if any nesting birds or nesting activity is observed on or within 500-feet of a project site. If an active nest is observed during the survey, a biological monitor shall be on site to ensure that no proposed project activities would impact the active nest. A suitable buffer shall be established around the active nest until the nestlings have fledged and the nest is no longer active. Project activities may continue in the vicinity of the nest only at the discretion of the biological monitor. Prior to commencement of grading activities and issuance of any building permits, the Director of the City of Fresno Planning and Development Department, or designee, shall verify that all proposed project grading and construction plans include specific documentation regarding the requirements of the Migratory Bird Treaty Act (MBTA) and California Fish and Game Code Section 3503, that preconstruction surveys have been completed and the results reviewed by staff, and that the appropriate buffers (if needed) are noted on the plans and established in the field. Specific mitigation measures for direct or incidental impacts to avian species protected under Fish and Game Code 3500 and the Migratory Bird Treaty Act (MBTA) shall be determined on a case-by-case basis through agency consultation during the review process for discretionary projects, and shall be consistent with survey protocols and mitigations measures recommended by the agency at the time of consultation.</p>	<p>Project Applicant and qualified biologist</p>	<p>Planning and Development Department, CDFW</p>	<p>Biological Resources Assessment to be completed during environmental review of project and prior to approval of discretionary project. The City shall ensure that pre-construction surveys are conducted within 3 days prior to construction activities, or within a timeframe recommended by a qualified biologist and consistent with applicable regulatory requirements and/or recommendations.</p>
<p>BIO-2.1: A pre-construction clearance survey, following current CDFW protocols, shall be conducted by a qualified biologist to determine if a proposed project will result in the removal or impact to any riparian habitat and/or a special-status natural community with potential to occur in the Planning Area, compensatory habitat-based mitigation shall be required to reduce project impacts. Compensatory mitigation must involve the preservation or restoration or the purchase of off-site mitigation credits for impacts to riparian habitat and/or a special-status natural community. Mitigation must be conducted in-kind or within an approved mitigation bank in the region. The specific mitigation ratio for habitat-based mitigation shall be determined through consultation with the appropriate agency (i.e., CDFW or USFWS) on a case-by-case basis. The project applicant/developer for a proposed project shall develop and implement appropriate mitigation regarding impacts on their respective jurisdictions.</p>	<p>Project Applicant and qualified biologist</p>	<p>Planning and Development Department, CDFW, USFWS</p>	<p>Pre-construction clearance survey to be completed during environmental review of project and prior to approval of discretionary project. The City shall ensure that any required compensatory mitigation is determined prior to project approval.</p>

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<p>BIO-2.2: A pre-construction clearance survey, following current CDFW protocols, shall be conducted by a qualified biologist to determine if a proposed project will result in significant impacts to streambeds or waterways protected under Section 1600 of Fish and Wildlife Code and Section 404 of the CWA. The project applicant/developer for a proposed project shall consult with partner agencies such as CDFW and/or USACE to develop and implement appropriate mitigation regarding impacts on their respective jurisdictions, determination of mitigation strategy, and regulatory permitting to reduce impacts, as required for projects that remove riparian habitat and/or alter a streambed or waterway. The project applicant/developer shall implement mitigation as directed by the agency with jurisdiction over the particular impact identified.</p>	<p>Project Applicant and qualified biologist</p>	<p>Planning and Development Department, CDFW</p>	<p>Pre-construction clearance survey to be completed during environmental review of project and prior to approval of discretionary project. The City shall ensure that project-specific mitigation is incorporated into project plans prior to project approval.</p>
<p>BIO-2.3: Prior to project approval, a pre-construction clearance survey, following current CDFW protocols, shall be conducted by a qualified biologist to determine if a proposed project will result in project-related impacts to riparian habitat or a special-status natural community or if it may result in direct or incidental impacts to special-status species associated with riparian or wetland habitats. The project applicant/developer for a proposed project shall be obligated to address project-specific impacts to special-status species associated with riparian habitat through agency consultation, development of a mitigation strategy, and/or issuing incidental take permits for the specific special-status species, as determined by the CDFW and/or USFWS.</p>	<p>Project Applicant and qualified biologist</p>	<p>Planning and Development Department, CDFW</p>	<p>Pre-construction clearance survey to be completed during environmental review of project and prior to approval of discretionary project. The City shall ensure that project-specific mitigation is incorporated into project plans prior to project approval.</p>
<p>BIO-3.1: If a proposed project will result in the significant alteration or fill of a federally protected wetland, a formal wetland delineation conducted according to USACE accepted methodology is required for each project to determine the extent of wetlands on a project site. The delineation shall be used to determine if federal permitting and mitigation strategy are required to reduce project impacts. Acquisition of permits from USACE for the fill of wetlands and USACE approval of a wetland mitigation plan would ensure a “no net loss” of wetland habitat within the Planning Area. Appropriate wetland mitigation/creation shall be implemented in a ratio according to the size of the impacted wetland.</p>	<p>Project Applicant and qualified biologist</p>	<p>Planning and Development Department, CDFW</p>	<p>Wetland delineation to be completed during environmental review of project and prior to approval of discretionary project. The City shall ensure that project-specific mitigation is incorporated into project plans prior to project approval.</p>
<p>BIO-3.2: In addition to regulatory agency permitting, Best Management Practices identified from a list provided by the USACE shall be incorporated into the design and construction phase of the project to ensure that no pollutants or siltation drain into a federally protected wetland. Project design features such as fencing, appropriate drainage and incorporating detention basins shall assist in ensuring project-related impacts to wetland habitat are minimized to the greatest extent feasible.</p>	<p>Project Applicant and qualified biologist</p>	<p>Planning and Development Department, CDFW</p>	<p>Biological Resources Assessment to be completed during environmental review of project and prior to approval of discretionary project. The City shall ensure that project-specific BMPs are incorporated into project plans prior to issuance of any grading or construction permits.</p>

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CULTURAL RESOURCES			
<p>CUL-1.1: If previously unknown resources are encountered before or during grading activities, construction shall stop in the immediate vicinity of the find and a qualified historical resources specialist shall be consulted to determine whether the resource requires further study. The qualified historical resources specialist shall make recommendations to the City on the measures that shall be implemented to protect the discovered resources, including but not limited to excavation of the finds and evaluation of the finds in accordance with Section 15064.5 of the CEQA Guidelines and the City’s Historic Preservation Ordinance. If the resources are determined to be unique historical resources as defined under Section 15064.5 of the CEQA Guidelines, measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds.</p> <p>No further grading shall occur in the area of the discovery until the Lead Agency approves the measures to protect these resources. Any historical artifacts recovered as a result of mitigation shall be provided to a City-approved institution or person who is capable of providing long-term preservation to allow future scientific study.</p>	<p>Project Applicant and qualified historical resources specialist</p>	<p>Planning and Development Department</p>	<p>Planning and Development Department to review contract specifications to ensure inclusion of provisions included in project-specific mitigation measure.</p> <p>Following discovery of previously unknown resource, a qualified historical resources specialist shall prepare recommendations and submit to the Planning and Development Department. Timing for recommendations shall be established by project-specific mitigation measure.</p>
<p>CUL-1.2: Prior to approval of any discretionary project that could result in an adverse change to a potential historic and/or cultural resource, the City shall require a site-specific evaluation of historic and/or cultural resources by a professional who meets the Secretary of Interior’s Qualifications. The evaluation shall provide recommendations to mitigate potential impacts to historic and/or cultural resources and shall be approved by the Director of Planning and Development.</p>	<p>Project Applicant and qualified historical resources specialist</p>	<p>Planning and Development Department</p>	<p>Cultural resources study to be completed during environmental review and prior to approval of discretionary project. The City shall ensure that project-specific mitigation is incorporated into project plans prior to project approval.</p>

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<p>CUL-2: Subsequent to a preliminary City review of the project grading plans, if there is evidence that a project will include excavation or construction activities within previously undisturbed soils, a field survey and literature search for prehistoric archaeological resources shall be conducted. The following procedures shall be followed.</p> <ul style="list-style-type: none"> If prehistoric resources are not found during either the field survey or literature search, excavation and/or construction activities can commence. In the event that buried prehistoric archaeological resources are discovered during excavation and/or construction activities, construction shall stop in the immediate vicinity of the find and a qualified archaeologist shall be consulted to determine whether the resource requires further study. The qualified archaeologist shall make recommendations to the City on the measures that shall be implemented to protect the discovered resources, including but not limited to excavation of the finds and evaluation of the finds in accordance with Section 15064.5 of the CEQA Guidelines. If the resources are determined to be unique prehistoric archaeological resources as defined under Section 15064.5 of the CEQA Guidelines, mitigation measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds. No further grading shall occur in the area of the discovery until the Lead Agency approves the measures to protect these resources. Any prehistoric archaeological artifacts recovered as a result of mitigation shall be provided to a City-approved institution or person who is capable of providing long-term preservation to allow future scientific study. If prehistoric resources are found during the field survey or literature review, the resources shall be inventoried using appropriate State record forms and submit the forms to the Southern San Joaquin Valley Information Center. The resources shall be evaluated for significance. If the resources are found to be significant, measures shall be identified by the qualified archaeologist. Similar to above, appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds. In addition, appropriate mitigation for excavation and construction activities in the vicinity of the resources found during the field survey or literature review shall include an archaeological monitor. The monitoring period shall be determined by the qualified archaeologist. If additional prehistoric archaeological resources are found during excavation and/or construction activities, the procedure identified above for the discovery of unknown resources shall be followed. 	<p>Project Applicant and qualified historical resources specialist</p>	<p>Planning and Development Department</p>	<p>Cultural resources study to be completed during environmental review and prior to approval of discretionary project. The City shall ensure that project-specific mitigation is incorporated into project plans prior to project approval.</p>

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<p>CUL-3: In the event that human remains are unearthed during excavation and grading activities of any future development project, all activity shall cease immediately. Pursuant to Health and Safety Code (HSC) Section 7050.5, no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to PRC Section 5097.98(a). If the remains are determined to be of Native American descent, the coroner shall within 24 hours notify the Native American Heritage Commission (NAHC). The NAHC shall then contact the most likely descendent of the deceased Native American, who shall then serve as the consultant on how to proceed with the remains. Pursuant to PRC Section 5097.98(b), upon the discovery of Native American remains, the landowner shall ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located is not damaged or disturbed by further development activity until the landowner has discussed and conferred with the most likely descendants regarding their recommendations, if applicable, taking into account the possibility of multiple human remains. The landowner shall discuss and confer with the descendants all reasonable options regarding the descendants' preferences for treatment.</p>	<p>Project Applicant and qualified historical resources specialist</p>	<p>Planning and Development Department</p>	<p>Planning and Development Department to review construction specifications to ensure inclusion of provisions included in mitigation measure.</p>

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GEOLOGY AND SOILS			
<p>GEO-6.1: Subsequent to a preliminary City review of the project grading plans, if there is evidence that a project will include excavation or construction activities within previously undisturbed soils, a field survey and literature search for unique paleontological/geological resources shall be conducted. The following procedures shall be followed:</p> <ul style="list-style-type: none"> • If unique paleontological/geological resources are not found during either the field survey or literature search, excavation and/or construction activities can commence. In the event that unique paleontological/geological resources are discovered during excavation and/or construction activities, construction shall stop in the immediate vicinity of the find and a qualified paleontologist shall be consulted to determine whether the resource requires further study. The qualified paleontologist shall make recommendations to the City on the measures that shall be implemented to protect the discovered resources, including but not limited to, excavation of the finds and evaluation of the finds. If the resources are determined to be significant, mitigation measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds. No further grading shall occur in the area of the discovery until the Lead Agency approves the measures to protect these resources. Any paleontological/geological resources recovered as a result of mitigation shall be provided to a City-approved institution or person who is capable of providing long-term preservation to allow future scientific study. • If unique paleontological/geological resources are found during the field survey or literature review, the resources shall be inventoried and evaluated for significance. If the resources are found to be significant, mitigation measures shall be identified by the qualified paleontologist. Similar to above, appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds. In addition, appropriate mitigation for excavation and construction activities in the vicinity of the resources found during the field survey or literature review shall include a paleontological monitor. The monitoring period shall be determined by the qualified paleontologist. If additional paleontological/geological resources are found during excavation and/or construction activities, the procedure identified above for the discovery of unknown resources shall be followed. 	<p>Planning and Development Department</p>	<p>Planning and Development Department</p>	<p>City shall review preliminary grading plans prior to issuance of grading permits. If needed, a field survey or literature review shall occur prior to start of grading activities. Additional monitoring of project site during construction period shall be determined by a qualified paleontologist and consistent with project-specific mitigation measure.</p>

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GREENHOUSE GAS EMISSIONS			
GHG-1.1: Prior to the City’s approval of subsequent discretionary projects, the Director of the City Planning and Development Department, or designee, shall confirm that development projects are consistent with the Recirculated GHG Reduction Plan Update (2021) and shall implement all measures deemed applicable to the project through the GHG Reduction Plan Update-Project Consistency Checklist (Appendix B to the GHG Reduction Plan Update).	Planning and Development Department	Planning and Development Department	Planning and Development Department shall review project plans during environmental review of proposed project, and shall review construction specifications to ensure inclusion of applicable measures.
HAZARDS AND HAZARDOUS MATERIALS			
HAZ-6.1: The City shall establish an alternative Emergency Operations Center in the event the current Emergency Operations Center is under redevelopment or inaccessible.	Fresno Fire Department and Mayor/ City Manager’s Office	Fresno Fire Department and Mayor/ City Manager’s Office	Planning and Development Department to establish alternative Emergency Operations Center prior to commencement of redevelopment or inaccessibility of existing Emergency Operations Center.
HYDROLOGY AND WATER QUALITY			
HYD-2.1: The City shall continue to be an active participant in the North Kings Groundwater Sustainability Agency and the implementation of the North Kings Groundwater Sustainability Plan in order to ensure that the Kings Subbasin has balanced levels of pumping and recharge.	Department of Public Utilities (DPU)	Planning and Development Department	Ongoing. DPU to continue to coordinate with North Kings Groundwater Sustainability Agency as established by a Joint Powers Agreement with member agencies and the City of Fresno as adopted in January 2017.

Table A: PEIR Mitigation Monitoring and Reporting Program

Mitigation Measures	Mitigation Responsibility	Monitoring/ Reporting Agency	Monitoring Timing/Schedule
<p>HYD-3.1: The City shall implement the following measures to reduce the impacts on the capacity of existing or planned SDFCMP collection systems:</p> <ul style="list-style-type: none"> • Coordinate with FMFCD to implement the existing Storm Drainage and Flood Control Master Plan (SDFCMP) for collection systems in drainage areas where the amount of imperviousness is unaffected by the change in land uses. • Coordinate with FMFCD to update the SDFCMP in those drainage areas where the amount of imperviousness increased due to the change in land uses to determine the changes in the collection systems that would need to occur to provide adequate capacity for the stormwater runoff from the increased imperviousness. • As development is proposed, implement current SDFCMP to provide stormwater collection systems that have sufficient capacity to convey the peak runoff rates from the areas of increased imperviousness. • Require developments that increase site imperviousness to install, operate, and maintain FMFCD approved on-site detention systems to reduce the peak runoff rates resulting from the increased imperviousness to the peak runoff rates that will not exceed the capacity of the existing stormwater collection systems. 	<p>Fresno Metropolitan Flood Control District (FMFCD), Planning and Development Department, and PW</p>	<p>Fresno Metropolitan Flood Control District (FMFCD), Planning and Development Department, and PW</p>	<p>Ongoing. City and partnering agencies to ensure plans are approved consistent with existing Memorandum of Understanding prior to exceedance of capacity of existing stormwater drainage facilities.</p>
<p>HYD-3.2: The City shall implement the following measures to reduce the impacts on the capacity of existing or planned SDFCMP retention basins: Prior to approval of development projects, coordinate with FMFCD to analyze the impacts to existing and planned retention basins to determine remedial measures required to reduce the impact on retention basin capacity to less than significant. Remedial measures would include:</p> <ol style="list-style-type: none"> 1. Increase the size of the retention basin through the purchase of more land or deepening the basin or a combination for planned retention basins. 2. Require developments that increase runoff volume to install, operate, and maintain, Low Impact Development (LID) measures to reduce runoff volume to the runoff volume that will not exceed the capacity of the existing retention basins. 	<p>FMFCD, Planning and Development Department, and PW</p>	<p>FMFCD, Planning and Development Department, and PW</p>	<p>Ongoing. City and partnering agencies to ensure plans are approved consistent with existing Memorandum of Understanding prior to exceedance of capacity of existing retention basin facilities.</p>

Table A: PEIR Mitigation Monitoring and Reporting Program

Mitigation Measures	Mitigation Responsibility	Monitoring/ Reporting Agency	Monitoring Timing/Schedule
<p>HYD-3.3: The City shall implement the following measures to reduce the impacts on the capacity of existing or planned SDFCMP urban detention (stormwater quality) basins: Prior to approval of development projects, coordinate with FMFCD to determine the impacts to the urban detention basin weir overflow rates and determine remedial measures required to reduce the impact on the detention basin capacity to less than significant. Remedial measures would include:</p> <ol style="list-style-type: none"> 1. Modify overflow weir to maintain the suspended solids removal rates adopted by the FMFCD Board of Directors. 2. Increase the size of the urban detention basin to increase residence time by purchasing more land. The existing detention basins are already at the adopted design depth. 3. Require developments that increase runoff volume to install, operate, and maintain, Low Impact Development (LID) measures to reduce peak runoff rates and runoff volume to the runoff rates and volumes that will not exceed the weir overflow rates of the existing urban detention basins. 	<p>FMFCD, Planning and Development Department, and PW</p>	<p>FMFCD, Planning and Development Department, and PW</p>	<p>Ongoing. City and partnering agencies to ensure plans are approved consistent with existing Memorandum of Understanding prior to exceedance of capacity of existing urban detention basin (stormwater quality) facilities.</p>
<p>HYD-3.4: The City shall implement the following measures to reduce the impacts on the capacity of existing or planned SDFCMP pump disposal systems:</p> <ol style="list-style-type: none"> 1. Prior to approval of development projects, coordinate with FMFCD to determine the extent and degree to which the capacity of the existing pump system will be exceeded. 2. Require new developments to install, operate, and maintain on-site detention facilities, consistent with FMFCD design standards, to reduce peak stormwater runoff rates to existing planned peak runoff rates. 3. Provide additional pump system capacity to maximum allowed by existing permitting to increase the capacity to match or exceed the peak runoff rates determined by the SDFCMP. 	<p>FMFCD, Planning and Development Department, and PW</p>	<p>FMFCD, Planning and Development Department, and PW</p>	<p>Ongoing. City and partnering agencies to ensure storm drainage plans are approved consistent with existing Memorandum of Understanding prior to exceedance of capacity of existing pump disposal systems.</p>
<p>HYD-3.5: The City shall coordinate with FMFCD to develop and adopt a storm drainage update to the SDFCMP for the Southeast Development Area that is designed to collect, convey and dispose of runoff rates and volumes based on the planned land uses of the approved General Plan.</p>	<p>FMFCD, Planning and Development Department, and PW</p>	<p>Planning and Development Department</p>	<p>Ongoing. City and partnering agencies to ensure storm drainage updates are approved consistent with existing Memorandum of Understanding prior to development approvals in the Southeast Development Area.</p>

Table A: PEIR Mitigation Monitoring and Reporting Program

Mitigation Measures	Mitigation Responsibility	Monitoring/ Reporting Agency	Monitoring Timing/Schedule
NOISE			
NOI-2: Construction Vibration. The use of heavy construction equipment within 25 feet of existing structures shall be prohibited.	Project Applicant and Planning and Development Department	Planning and Development Department	Prior to issuance of any grading or construction permits, the Planning and Development Department shall ensure that project construction specifications prohibit heavy construction within 25 feet of existing structures.
PUBLIC SERVICES			
PSR-1.1: As future fire facilities are planned, environmental review of proposed facilities shall be completed to meet the requirements of CEQA. Typical impacts from fire facilities include air quality/greenhouse gas emissions, noise, traffic, and lighting.	Fresno Fire Department (FFD), Planning and Development Department	Planning and Development Department	Analysis of air quality/greenhouse gas emissions, noise, traffic, and lighting to be completed during environmental review of future fire facilities. The City shall ensure that project-specific mitigation is incorporated into project plans prior to project approval.
PSR-1.2: As future police facilities are planned, environmental review of proposed facilities shall be completed to meet the requirements of CEQA. Typical impacts from police facilities include air quality/greenhouse gas emissions, noise, traffic, and lighting.	Fresno Police Department (PFD), Planning and Development Department	Planning and Development Department	Analysis of air quality/greenhouse gas emissions, noise, traffic, and lighting to be completed during environmental review of future police facilities. The City shall ensure that project-specific mitigation is incorporated into project plans prior to project approval.
PSR-1.3: As future parks and recreational facilities are planned, environmental review of proposed facilities shall be completed to meet the requirements of CEQA. Typical impacts from park facilities include air quality/greenhouse gas emissions, noise, traffic, and lighting.	Parks, After School, Recreation and Community Services Department (PARCS), Planning and Development Department	Planning and Development Department	Analysis of air quality/greenhouse gas emissions, noise, traffic, and lighting to be completed during environmental review of future park and recreational facilities. The City shall ensure that project-specific mitigation is incorporated into project plans prior to project approval.

Table A: PEIR Mitigation Monitoring and Reporting Program

Mitigation Measures	Mitigation Responsibility	Monitoring/ Reporting Agency	Monitoring Timing/Schedule
<p>PSR-1.4: As future public facilities are planned by the City of Fresno (e.g., court, library, and hospital facilities), environmental review of the proposed facilities shall be completed to meet the requirements of CEQA. Typical impacts from public facilities include air quality/greenhouse gas emissions, noise, traffic, and lighting.</p>	<p>For City projects: Planning and Development Department</p>	<p>Planning and Development Department</p>	<p>As lead agency the City will require analysis of air quality/greenhouse gas emissions, noise, traffic, and lighting to be completed during environmental review of proposed public City facility projects. The City shall ensure that project-specific mitigation is incorporated into project plans prior to project approval.</p>
<p>UTILITIES AND SERVICE SYSTEMS</p>			
<p>UTL-1.1.1: The City shall evaluate the water conveyance system and, at the time that discretionary projects are submitted for approval by the City, the City shall not approve development that would demand additional water and exceed the capacity of a facility until additional capacity is provided. The following capacity improvements shall be evaluated for potential environmental impacts and constructed by the City by approximately 2025.</p> <ul style="list-style-type: none"> • Construct 65 new groundwater wells, in accordance with Chapter 9 and Figure 9-1 of the 2014 Metro Plan Update. • Construct a 2.0 million gallon potable water reservoir (Reservoir T2) near the intersection of Clovis and California Avenues, in accordance with Chapter 9 and Figure 9-1 of the 2014 Metro Plan Update. • Construct a 4.0 million gallon potable water reservoir (Reservoir T5) near the intersection of Ashlan and Chestnut Avenues, in accordance with Chapter 9 and Figure 9-1 of the 2014 Metro Plan Update. • Construct a 4.0 million gallon potable water reservoir (Reservoir T6) near the intersection of Ashlan Avenue and Highway 99, in accordance with Chapter 9 and Figure 9-1 of the 2014 Metro Plan Update. • Construct 50.3 miles of regional water transmission mains ranging in size from 24- inch to 48-inch, in accordance with Chapter 9 and Figure 9-1 of the 2014 Metro Plan Update. • Construct 95.9 miles of 16-inch transmission grid mains, in accordance with Chapter 9 and Figure 9-1 of the 2014 Metro Plan Update. <p>Prior to initiating construction of any of the capacity improvement projects identified above, the City shall conduct appropriate environmental analyses for each project to determine whether environmental impacts would occur.</p>	<p>DPU</p>	<p>Planning and Development Department</p>	<p>City to ensure that sufficient capacity exists within the existing water conveyance facilities prior to approving discretionary projects.</p>

Table A: PEIR Mitigation Monitoring and Reporting Program

Mitigation Measures	Mitigation Responsibility	Monitoring/ Reporting Agency	Monitoring Timing/Schedule
<p>UTL-1.1.2: The City shall evaluate the water conveyance system at the time discretionary projects are submitted and shall not approve development that would demand additional water and exceed the capacity of a facility until additional capacity is provided. The following capacity improvements shall be evaluated for potential environmental impacts and constructed by the City after approximately the year 2035 and additional water conveyance facilities shall be provided prior to exceedance of capacity within the water conveyance facilities to accommodate full buildout of the approved General Plan.</p> <ul style="list-style-type: none"> • Construct a 4.0 million gallon potable water reservoir (SEDA Reservoir 1) within the northern part of the Southeast Development Area. • Construct a 4.0 million gallon potable water reservoir (SEDA Reservoir 2) within the southern part of the Southeast Development Area. 	DPU	Planning and Development Department	City to ensure that sufficient capacity exists within the existing water conveyance facilities prior to approving 23discretionary projects.
<p>UTL-1.2.1: The City shall evaluate the water supply system at the time discretionary projects are submitted and shall not approve development that would demand additional water until additional capacity is provided. By approximately the year 2025, the following capacity improvements shall be evaluated for potential environmental impacts and constructed by the City.</p> <ul style="list-style-type: none"> • Construct an approximately 30 mgd expansion of the existing northeast surface water treatment facility for a total capacity of 60 mgd, in accordance with Chapter 9 and Figure 9-1 of the 2014 Metro Plan Update. • Construct an approximately 20 mgd surface water treatment facility in the southwest portion of the City, in accordance with Chapter 9 and Figure 9-1 of the 2014 Metro Plan Update. • Construct a 25,000 AF/year recycled water facility as an expansion to the RWRF in accordance with the January 2014 City of Fresno Metropolitan Water Resources Management Plan. This improvement is required after the year 2025. 	DPU	Planning and Development Department	City to ensure that sufficient water supply capacity exists prior to approving discretionary projects.
<p>UTL-1.3.1: The City shall evaluate the wastewater system at the time discretionary projects are submitted and shall not approve development that contributes wastewater to the wastewater treatment facility that could exceed capacity until additional capacity is provided. By approximately the year 2025, the City shall evaluate the potential environmental impacts and construct the following improvements.</p> <ul style="list-style-type: none"> • Construct an approximately 70 mgd expansion of the Regional Wastewater Treatment Facility prior to flows reaching 80 percent of rated capacity, and obtain revised waste discharge permits as the generation of wastewater is increased. • Construct an approximately 0.49 mgd expansion of the North Facility and obtain revised waste discharge permits as the generation of wastewater is increased. 	DPU	Planning and Development Department	City to ensure sufficient wastewater treatment capacity exists prior to approving discretionary projects.

Table A: PEIR Mitigation Monitoring and Reporting Program

Mitigation Measures	Mitigation Responsibility	Monitoring/ Reporting Agency	Monitoring Timing/Schedule
<p>UTL-1.3.2: The City shall evaluate the wastewater system at the time discretionary projects are submitted and shall not approve development that contributes wastewater to the wastewater treatment facility that could exceed capacity until additional capacity is provided. After approximately the year 2025, the City shall evaluate the potential environmental impacts of, and construct the following improvements.</p> <ul style="list-style-type: none"> Construct an approximately 24 mgd Wastewater Treatment Facility within the Southeast Development Area and obtain revised waste discharge permits as the generation of wastewater is increased. <p>Construct an approximately 9.6 mgd expansion of the Regional Wastewater Treatment Facility and obtain revised waste discharge permits as the generation of wastewater is increased.</p>	DPU	Planning and Development Department	City to ensure sufficient wastewater treatment capacity exists prior to approving discretionary projects.
<p>UTL-1.4.1: Consistent with the Sewer System Management Plan, the City shall evaluate the wastewater collection system at the time discretionary projects are submitted, and shall not approve development that would generate additional wastewater and exceed the capacity of a facility until additional capacity is provided.</p>	DPU	Planning and Development Department	City to ensure sufficient wastewater collection system facilities and capacity exists prior to approving discretionary projects.
<p>UTL-1.5.1: At the time discretionary projects are submitted, the City shall require project-specific environmental evaluations for the expansion or relocation of electric, natural gas, or telecommunication facilities be completed prior to project approval.</p>	DPU and Planning and Development Department	DPU and Planning and Development Department	Project-specific environmental evaluations to occur prior to approval of discretionary projects.
<p>UTL-4.1: The City shall evaluate additional landfill locations at the time discretionary projects are submitted, and shall not approve development that could contribute solid waste to a landfill that is at capacity until additional capacity is provided.</p>	DPU and Planning and Development Department	DPU and Planning and Development Department	Ongoing. City to evaluate additional landfill locations prior to exceeding landfill capacity.

Source: LSA (2020).