

## 6 MITIGATION MONITORING AND REPORTING PROGRAM

This chapter provides a Mitigation Monitoring and Reporting Program (MMRP) for the Vacaville General Plan and Energy Conservation Action Strategy (ECAS). The purpose of the MMRP is to ensure the implementation of mitigation measures identified as part of the environmental review for the project. The MMRP includes the following information:

- ◆ A list of mitigation measures;
- ◆ The party responsible for implementing the mitigation measures;
- ◆ The timing for implementation of the mitigation measure;
- ◆ The agency responsible for monitoring the implementation; and
- ◆ The monitoring action and frequency.

The City of Vacaville must adopt this MMRP, or an equally effective program, if it approves the General Plan and ECAS with the mitigation measures that were adopted or made conditions of project approval.

TABLE 6-1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
<b>BIOLOGICAL RESOURCES</b>					
<p><b>BIO-1:</b> Preservation and restoration of habitat for species identified in Tables 4.4-2 and 4.4-3 of the Draft EIR shall occur in the same level or higher level conservation area as the direct impact occurs (i.e. impacts to habitat in Medium Value Conservation Areas will be mitigated in Medium to High Value Conservation Areas, but impacts to habitat in Low Value Conservation Areas shall be mitigated in either Low or Medium Value Conservation Areas). Compensation for indirect impacts will be assessed on the location/conservation value of the habitat that is indirectly impacted and not the location of project activity (i.e. if a project activity will indirectly impact a habitat for species in a Medium Value Conservation Area but the project is located in a Low Value Conservation Area, compensatory mitigation shall be based on the type of habitat that is being indirectly impacted (in this case Medium Value Conservation Area) rather than the lower value project area. All mitigation ratios are based on impacts as assessed by acreage.</p>	Project applicants	Prior to issuance of grading, construction, or building permits	City of Vacaville Community Development Department and Solano County Water Agency	Plan review and approval	Once per development project prior to construction; annually for two wet seasons after completion of project. Additional monitoring and remedial measures may be required if hydrology is not reestablished
<p>1. <b>Medium Value Conservation Areas</b> (see Subareas 2C, 2D, and 2N in Figure 4.4-3)</p> <p>a. <b>Wetland Component Direct Impacts:</b> Preserve vernal pool and swale habitats at a ratio of 2:1, and restore vernal pool and swale habitats at a ratio of 1:1 if restored habitats are in place and functional at the time of impact or at a 2:1 ratio if habitats are restored concurrent with the impact.</p> <p>b. <b>Wetland Component Indirect Impacts:</b> Preserve vernal pool and swale habitats at a ratio of 1:1 for avoided wetlands within 250 feet of proposed development.</p> <p>c. <b>Upland Component Direct Impacts:</b> In Subarea 2C, preserve upland habitat at a ratio of 3:1. In the remaining subareas, preserve upland habitat at a ratio of 2:1.</p> <p>d. <b>Upland Component Indirect Impacts:</b> Preserve</p>					

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<p>avoided upland habitat at a ratio of 1:1 within 250 feet of proposed development.</p>					
<p>2. <b>Low Value Conservation Areas and Seasonal Wetlands in Agricultural Areas Outside of a Medium Value Conservation Area</b> (See Subarea 3 in Figure 4.4-3)</p>					
<p>a. <b>Wetland Component Direct Impacts:</b> Preserve vernal pool and swale habitats at a ratio of 1:1, and restore vernal pool and swale habitats at a ratio of 1:1 if restored habitats are in place and functional at the time of impact or at a 2:1 ratio if habitats are restored concurrent with the impact.</p>					
<p>b. <b>Wetland Component Indirect Impacts:</b> Preserve vernal pool and swale habitats at a ratio of 1:1 within 100 feet of proposed development.</p>					
<p>3. <b>Mitigation for Temporary Impacts to Seasonal Wetlands and Uplands in all Conservation Areas:</b> Temporary impacts to seasonal wetlands and uplands in all vernal pool conservation areas shall be subject to the mitigation and monitoring requirements described below. Temporary impacts to wetlands shall be calculated for the entire wetland in which the impact occurs and not just the portion disturbed by the temporary impact.</p>					
<p>a. <b>Temporary and Short-Term Impacts:</b> All temporary impacts lasting no more than one growing season to seasonal wetlands and uplands in all vernal pool conservation areas shall be mitigated by restoring the existing wetlands and uplands and providing additional preservation of wetlands and uplands at a 1:1 ratio. Impacts lasting no more than two growing seasons shall be mitigated by restoring the existing habitats and providing additional wetland and upland preservation at a 1.5:1 ratio. Impacts lasting longer than two growing seasons shall be mitigated at the standard Conservation Area ratios described above under conditions BIO-1-1 and BIO-1-2.</p>					
<p>b. <b>Restoration and Monitoring Plan:</b> The applicant</p>					

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<p>shall provide a restoration plan consistent with the requirements in the Solano HCP or standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP, including acceptable financial assurances, for review and approval by the City and other applicable regulatory agencies, to ensure successful implementation of the habitat restoration. All temporarily impacted wetlands shall be monitored for a minimum of two wet seasons to document that hydrology has been restored to pre-project conditions. Additional monitoring and remedial measures may be required if hydrology is not reestablished.</p> <p>The mitigation ratios described above are applicable to all seasonal wetlands (i.e. saturated, seasonally flooded, and areas subject to temporary flooding sufficient to create wetlands). Conservation actions for streams and semi-permanently to permanently flooded wetlands in the valley floor grassland and vernal pool natural community are addressed under Mitigation Measures BIO-5, BIO-6, BIO-7, and BIO-9.</p>	Project applicants	Prior to issuance of grading, construction, or building permits	City of Vacaville Community Development Department and Solano County Water Agency	Plan review and approval	Once per development project
<p><u>BIO-2:</u> All impacted seasonal wetlands shall be characterized according to the types below and mitigated by preservation of the same category of wetland according to the ratios in Mitigation Measure BIO-1.</p> <p>Seasonal wetland categories are as follows:</p> <ul style="list-style-type: none"> <li>◆ <b>Pools:</b> Greater than 1 inch of standing water for more than ten continuous days with short (less than three weeks) to long (more than three weeks) durations of standing water, clear to moderate turbidity, and exhibiting significant vegetation cover.</li> <li>◆ <b>Playa Pools:</b> Greater than 1 inch of standing water for more than ten continuous days with long (more than three weeks) to very long durations of standing water, moderate to high turbidity, and exhibiting sparse vegetation cover (typically</li> </ul>					

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<p>found in association with Pescadero Series Soils; often referred to as playa-type pools).</p> <p>◆ <b>Swales or Mesic Grassland:</b> Shallow, standing water (generally less than 1 inch) present for fewer than ten continuous days.</p> <p>◆ <b>Alkaline Flats and Meadows:</b> Shallow, standing water (generally less than 1 inch) present for fewer than ten continuous days and exhibiting indicators of high alkalinity (salt deposits on soil surface, presence of salt-tolerant plants).</p>					
<p>Deviations in the required mitigation acreage by type or category may be permitted by the City and other applicable regulatory agencies.</p>					
<p>Under Mitigation Measure BIO-1, conservation habitats shall be proportional to impacts to the species and their associations (e.g. impacts to pool-dependent species such as vernal pool fairy shrimp shall not be mitigated by preservation of more abundant swale or mesic grasslands that do not support the species).</p>					
<p><u>BIO-3:</u> All direct impacts to extant stands of Contra Costa goldfields shall be mitigated by establishing new, self-reproducing populations of Contra Costa goldfields at a ratio of 4:1 (acres protected to acres impacted). This restoration requirement may be met by establishing new Contra Costa goldfield populations at a single-project mitigation site or by purchasing credits at an approved mitigation bank authorized to sell credits for this species in an amount equal to the 4:1 mitigation ratio. Guidelines for establishing Contra Costa goldfields and the release schedule for mitigation credits at the commercial mitigation banks will be specified in the bank-enabling agreements. Mitigation at single-project mitigation sites would be subject to the same conditions as the commercial mitigation banks. Establishment criteria shall also adhere to all the following conditions:</p> <ol style="list-style-type: none"> <li>1. Impacted habitat area for which mitigation is required shall be equal to the entire occupied pool/swale area, and shall not just be limited to the area with Contra Costa goldfield cover in the impacted pool.</li> </ol>	Project applicants	Prior to issuance of grading, construction, or building permits	City of Vacaville Community Development Department and Solano County Water Agency	Plan review and approval	Once per development project prior to start of construction; annual monitoring of mitigation site for five years after planting of new population

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<ol style="list-style-type: none"> <li>2. Contra Costa goldfield populations and other species identified in Tables 4.4-2 and 4.4-3 of the Draft EIR (including vernal pool fairy shrimp, conservancy fairy shrimp, vernal pool tadpole shrimp, and mid-valley fairy shrimp) shall be established in constructed, restored, and enhanced wetlands in the known range of these species in Solano County.</li> <li>3. Seed used to establish new populations of Contra Costa goldfields may be obtained from any Core Population Area, as defined in the Solano HCP or in areas identified in standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP. Seed collection shall not affect more than 10 percent of an individual preserved population. Seed and top soils shall be salvaged from occupied vernal pools and other wetlands in an impacted area prior to initiation of ground-disturbing activities.</li> <li>4. Restoration may occur in existing preserved pools currently lacking Contra Costa goldfields or in restored pools and swales in other Core Areas as defined in the Solano HCP or in areas identified in standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP. New populations must be established in currently unoccupied habitat.</li> <li>5. Re-established populations will be considered self-reproducing when:                         <ol style="list-style-type: none"> <li>a. Plants re-establish annually for a minimum of five years with no human intervention such as supplemental seeding, and habitat areas contain an occupied area and flower/plant density comparable to existing occupied habitat areas in similar pool types and Core Areas.</li> </ol> </li> </ol>					
<p>If Contra Costa goldfields cannot be established at the mitigation site within five years according to the conditions above, the</p>					

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<p>preserved wetland restoration acreage shall be increased by 50 percent. The applicant shall provide bonds or other acceptable financial assurances, subject to approval by the City and USFWS to ensure implementation of such measures.</p>					
<p><b>BIO-4:</b> Mitigation shall be required for any impacts in the known or potential range of the California tiger salamander (see Figure 4.4-4). Mitigation shall include preservation, enhancement, and restoration/establishment of suitable upland habitat, and preservation and construction/creation of new breeding habitat consistent with the mitigation requirements specified in Mitigation Measure BIO-1, subject to the following additional requirements.</p>	Project applicants	Prior to issuance of grading, construction, or building permits	City of Vacaville Community Development Department and Solano County Water Agency	Plan review and approval	Once per development project
<p>1. <b>Breeding Habitat Mitigation:</b> Direct and indirect impacts to all suitable California tiger salamander breeding habitat in the known or potential range of the species (Figure 4.4-4) will be mitigated by preserving known breeding habitat at a 3:1 ratio and creating new breeding habitat at a ratio of 2:1 or 0.35 acres, whichever is greater.</p> <p>All preserved and created/established breeding habitat shall be contiguous to at least 350 acres of preserved upland habitat, and created breeding habitat shall be located within 2,100 feet of known breeding habitat.</p> <p>a. All new breeding habitat shall be located within 2,100 feet of a known breeding site and be situated in a contiguous reserve/preserve area of 350 acres or more of suitable habitats. This may include other parcels if the lands are protected by conservation easements and are managed consistent with the Solano HCP Reserve Criteria or standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP. For some existing preserved areas/mitigation sites, this may require that management agreements and endowments be extended to these sites.</p> <p>b. New breeding habitat can consist of multiple sites within 1,300 feet of each other. All new created breed-</p>					

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<p>ing habitats shall be 0.2 acres to 0.35 acres in size unless otherwise approved by the City, USFWS, and CDFW.</p>					
<p>2. <b>Upland Habitat Mitigation:</b> Impacts to uplands and other movement habitats (i.e. seasonal wetland swales and meadows) in the known or potential range of the California tiger salamander (Figure 4.4-4) shall be mitigated at the ratios as described in Mitigation Measure BIO-1 for Subarea 2C (Figure 4.4-3, 2:1 ratio), subject to the following additional conditions:</p> <ul style="list-style-type: none"> <li>a. All upland mitigation preservation shall be within 2,100 feet of known breeding habitat or within 1,300 feet of constructed breeding habitat if the constructed breeding habitat is within 2,100 feet of known breeding habitat.</li> <li>b. New breeding habitat shall be established at a ratio of 0.001 acres per acre of upland directly and indirectly impacted by a project.</li> <li>c. Preserves established for California tiger salamander mitigation shall include measures for restoration of upland mounds, where applicable, in order to provide increased burrowing habitat for fossorial rodents and California tiger salamanders above the shallow, rainy-season water table.</li> </ul>					
<p><b>BIO-5:</b> Mitigation for permanent impacts to riparian, streams and their tributaries, and freshwater marsh habitat associated with riverine systems in the EIR Study Area shall be provided through restoration of in-kind habitat. Restoration of riparian habitat or creation of new habitat must occur either on site, at an approved mitigation bank, or at another high-quality site, and must be capable of supporting similar quality and species as the impacted site. All Riparian Restoration Plans shall be reviewed and approved by the City and CDFW. Restoration and enhancement activities shall be directed toward severely degraded stream segments in Priority Drainages and Watersheds (Figure 4.4-5). Basic mitigation requirements are based on impact area,</p>	Project applicants	Prior to issuance of grading, construction, or building permits	City of Vacaville Community Development Department and Solano County Water Agency	Plan review and approval	Once per development project prior to start of construction; monitoring of mitigation site for five years after planting of new population. Additionally, the five-year

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<p>vegetation replacement, and designated conservation values of the riparian, stream, and freshwater marsh habitat as assessed in the Solano HCP or standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP.</p> <p>1. <b>Vegetation.</b> All native, woody vegetation greater than 1 inch in diameter shall be replaced by planting native woody vegetation to at the following minimum ratios and performance standards:</p>					<p>monitoring period for documenting successful establishment may be extended if the mitigation is not performing adequately. At a minimum, the determination of success monitoring shall require at least two years without significant intervention (e.g. additional plantings or irrigation).</p>																																				
<table border="1"> <thead> <tr> <th>Vegetation Replacement Size (inches)<sup>a</sup></th> <th>Native Species (Except Oaks and Elderberry)<sup>b</sup></th> <th>Oak Species<sup>c</sup></th> <th>Nonnative Species</th> </tr> </thead> <tbody> <tr> <td colspan="4"><b>Priority Drainages</b></td> </tr> <tr> <td>&lt;12</td> <td>3:1</td> <td>5:1</td> <td>1:1</td> </tr> <tr> <td>12–24</td> <td>6:1</td> <td>7:1</td> <td>2:1</td> </tr> <tr> <td>&gt;24</td> <td>10:1</td> <td>12:1</td> <td>3:1</td> </tr> <tr> <td colspan="4"><b>Non-Priority Drainages</b></td> </tr> <tr> <td>&lt;12</td> <td>3:1</td> <td>5:1</td> <td>1:1</td> </tr> <tr> <td>12–24</td> <td>4:1</td> <td>7:1</td> <td>1.5:1</td> </tr> <tr> <td>&gt;24</td> <td>6:1</td> <td>12:1</td> <td>3:1</td> </tr> </tbody> </table>	Vegetation Replacement Size (inches) <sup>a</sup>	Native Species (Except Oaks and Elderberry) <sup>b</sup>	Oak Species <sup>c</sup>	Nonnative Species	<b>Priority Drainages</b>				<12	3:1	5:1	1:1	12–24	6:1	7:1	2:1	>24	10:1	12:1	3:1	<b>Non-Priority Drainages</b>				<12	3:1	5:1	1:1	12–24	4:1	7:1	1.5:1	>24	6:1	12:1	3:1					
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<p><b>Note: Performance Criteria</b> – The number of native riparian plants that become established at the end of the five-year monitoring period shall equal a minimum of 80 percent of total required plantings. Established plants may include natural regeneration and volunteer plants.</p> <p><sup>a</sup> Trees shall be measured at diameter at breast height (dbh); multiple trunked trees shall be reported as the cumulative total of all trunks. Shrubs shall be measured at the midpoint of the main trunk (the ground and the first major branch).</p> <p><sup>b</sup> Elderberry replacement ratios and other associated mitigation requirements are prescribed in Mitigation Measure BIO-9. Tree and shrub replacement requirements under this mitigation measure may be used to fulfill all or contribute to the associated native woody riparian vegetation requirements prescribed under Mitigation Measure BIO-9.</p> <p><sup>c</sup> Because of slow growth rates, oak species require higher replacement ratios. If acorns are used instead of seedlings (at least one year old), planting ratios shall be doubled.</p> <p><sup>d</sup> The five-year monitoring period for documenting successful establishment may be extended if the mitigation is not performing adequately. At a minimum, the determination of success monitoring shall require at least two years without</p>																																									

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<p>significant intervention (e.g. additional plantings or irrigation). Vegetation may need to be planted at higher ratios, depending on site conditions, in order to account for mortality of planted material.</p> <p>The goal of the riparian vegetation replacement is to contribute to the establishment of a multi-story riparian community with a variety of native riparian species appropriate for the mitigation site. Plantings are not required to directly replace impacts on a species-by-species basis.</p> <p>2. <b>Area.</b> Riparian mitigation planting shall also achieve the following area criteria based on whether the mitigation is achieved through enhancement (e.g. supplemental planting of existing riparian habitats) or through establishment of woody riparian habitats (e.g. existing or created channel lacking native woody riparian vegetation):</p> <table border="1" data-bbox="191 862 785 1010"> <thead> <tr> <th></th> <th colspan="2">Priority Drainages</th> <th colspan="2">Non-Priority Drainages</th> </tr> <tr> <th></th> <th>Enhance-ment</th> <th>Created/ Restored</th> <th>Enhance-ment</th> <th>Created/ Restored</th> </tr> </thead> <tbody> <tr> <td>Area Ratios</td> <td>4:1</td> <td>2:1</td> <td>3:1</td> <td>2:1</td> </tr> </tbody> </table>		Priority Drainages		Non-Priority Drainages			Enhance-ment	Created/ Restored	Enhance-ment	Created/ Restored	Area Ratios	4:1	2:1	3:1	2:1					
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<p>3. <b>Hydrological and Biological Connectivity:</b> Mitigation for permanent impacts to third and higher order streams and second order streams with riparian vegetation shall maintain the hydrologic and biological connectivity between downstream and upstream areas. Facilities such as bridges, culverts, outfalls, and grade control structures shall not create cumulative gaps in the channel or riparian corridor greater than 300 feet. Bypass or rerouted channels shall be constructed where necessary to replace impacted habitats and to limit gaps between existing riparian habitats.</p> <p>Note: The intent of requiring mitigation for removal of nonnative trees and shrubs is to protect riparian habitat. It is not intended to require mitigation for the removal of</p>																				

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<p>nonnative trees or shrubs as a part of riparian restoration or enhancement projects.</p> <p>The above measure applies to waterways subject to State regulation under Section 1602 of the Fish and Game Code and Porter-Cologne Water Quality Act and waters of the United States subject to regulation under the federal Clean Water Act.</p>					
<p><u>BIO 6:</u> Mitigation for direct impacts to pond or freshwater marsh habitat not hydrologically connected to streams shall be provided at a 2:1 ratio. This mitigation may be achieved by creating/restoring on-site open space areas with a minimum 100-foot-wide buffer, establishing an endowment or other suitable funding source for long-term management of the mitigation habitat, or purchasing credits at an approved mitigation bank.</p>	Project applicants	Prior to issuance of grading, construction, or building permits	City of Vacaville Community Development Department and Solano County Water Agency	Plan review and approval	Once per development project
<p><u>BIO 7:</u> Mitigation for direct impacts to seasonal wetlands in the Inner Coast Range shall be provided at a 2:1 ratio.</p>	Project applicants	Prior to issuance of grading, construction, or building permits	City of Vacaville Community Development Department and Solano County Water Agency	Plan review and approval	Once per development project
<p><u>BIO-8:</u> Compensatory mitigation for unavoidable impacts to suitable breeding and non-breeding aquatic habitat (e.g., riparian, stream, pond, and freshwater marsh habitats) outside of the California Red-Legged Frog Conservation Area shall be provided through the construction and/or restoration of similar habitats at a prescribed ratio (acres restored to acres impacted) consistent with Mitigation Measure BIO-5, and provide an endowment fund or other approved funding source to implement management plans for preserved lands in perpetuity consistent with the requirements in the Solano HCP or standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP.</p>	Project applicants	Prior to issuance of grading, construction, or building permits	City of Vacaville Community Development Department and Solano County Water Agency	Plan review and approval	Once per development project
<p><u>BIO 9:</u> Where removal of elderberry shrubs or their stems measuring 1 inch in diameter or greater is unavoidable, these impacts shall be mitigated. Removal of elderberry shrubs or stems 1 inch in diameter or greater and associated riparian vege-</p>	Project applicants	Prior to issuance of grading, construction, or building permits. Transplanting shall	City of Vacaville Community Development Department and	Plan review and approval	Once per development project

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<p>tation shall not create gaps in a riparian corridor greater than 300 feet. Mitigation will include salvaging and replanting affected elderberry shrubs and planting additional elderberry shrubs and associated native riparian plants according to the following criteria:</p>		<p>occur between June 15 and March 15.</p>	<p>Solano County Water Agency</p>		
<p>1. <b>Transplanting Removed Elderberry Shrubs.</b> Transplant removed elderberry shrubs to an approved, secure site, such as an approved mitigation bank location in Solano County or non-bank relocation site to be approved by the City and USFWS. All non-bank relocation sites shall meet the minimum reserve standards identified in the Solano HCP or standardized policies developed by the City per proposed General Plan Action COS-A1.1. that shall be based on the principles found in the current working draft of the Solano HCP (e.g. site shall be protected by a conservation easement or other applicable protection measure, and funding shall be provided for long-term monitoring and maintenance). Transplanting shall occur between June 15 and March 15 (November through February is the optimal period for transplanting). Elderberry may not be transplanted between March 16 and June 14 except where isolated bushes are located more than 0.5 miles from other suitable valley elderberry longhorn beetle habitat and no signs of use (e.g. exit holes) have been identified.</p>					
<p>2. <b>Mitigation for Whole Shrub Removal.</b> For each removed elderberry bush, plant a minimum of five elderberry seedlings or rooted cuttings and five associated native, woody riparian plants in the mitigation area, or purchase applicable credits from a mitigation bank approved under the Solano HCP or standardized policies developed by the City per proposed General Plan Action COS-A1.1 (that shall be based on the principles found in the current working draft of the Solano HCP) to sell valley elderberry longhorn beetle credits.</p>					
<p>3. <b>Mitigation for Trimming/Removal of Stems 1 Inch in Diameter or Greater.</b> For every ten elderberry stem 1 inch in diameter or greater that are trimmed/removed, plant two</p>					

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elderberry seedlings and two associated native, woody riparian plant seedlings.					
Mitigation plantings shall occur, to the maximum extent practicable, in areas adjacent to the impact area and/or in existing gaps in riparian corridors. Priority areas for riparian revegetation and planting of elderberry include Alamo and Ulatis Creeks. The requirements for associated native, woody riparian plant establishment may be fulfilled in combination with the woody riparian vegetation replacement requirements prescribed under Mitigation Measure BIO-5.					
<p><b>BIO-10:</b> Long-term impacts to Swainson’s hawk foraging habitat in the irrigated agriculture conservation area (Figure 4.4-6) shall be mitigated through the preservation (conservation easement) and management of foraging habitat at a ratio of 1:1 (mitigation-to-impact). All mitigation areas shall remain in “agricultural production” provided these activities are consistent with the economics of agricultural operations. The following activities shall also be prohibited on the mitigation area in order to promote value for Swainson’s hawk foraging:</p> <ul style="list-style-type: none"> <li>◆ Permanent plantings of orchards and/or vineyards for the production of fruits, nuts, or berries.</li> <li>◆ Cultivation of perennial vegetable crops such as artichokes and asparagus, as well as the annual crops cotton and rice.</li> <li>◆ Commercial feedlots, which are defined as any open or enclosed area where domestic livestock are grouped together for intensive feeding purposes.</li> <li>◆ Horticultural specialties, including sod, nursery stock, ornamental shrubs, ornamental trees, Christmas trees, and flowers.</li> <li>◆ Commercial greenhouses or plant nurseries.</li> <li>◆ Commercial aquaculture of aquatic plants and animals and their byproducts.</li> <li>◆ Commercial wind energy development.</li> </ul>	Project applicants	Prior to issuance of grading, construction, or building permits	City of Vacaville Community Development Department	Plan review and approval	Once per development project
Mitigation shall be provided in the Irrigated Agriculture Potential Reserve Area (as depicted in the Swainson’s Hawk Potential					

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Reserve Areas figure in the Solano HCP) or in areas identified in standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP.					
<u>BIO-11:</u> Long-term impacts to Swainson’s hawk foraging habitat in the valley floor grassland conservation area (Figure 4.4-6) shall be mitigated through the preservation and management of foraging habitat at a ratio of 1:1 (mitigation-to-impact) and subject to species management requirements specified in the Solano HCP or standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP. Mitigation shall be provided in the Irrigated Agriculture or Valley Floor Grassland Potential Reserve Areas (see the Vernal Pool Potential Preserve and Reserve Areas figure in the Solano HCP) or in areas identified in standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP. Preservation of valley floor grassland habitat may be satisfied through Mitigation Measure BIO-1 if the minimum 1:1 ratio for foraging habitat is achieved.	Project applicants	Prior to issuance of grading, construction, or building permits	City of Vacaville Community Development Department	Plan review and approval	Once per development project
<u>BIO-12:</u> Long-term impacts to grassland and oak savanna habitat in the Inner Coast Range conservation area (Figure 4.4-6) shall be mitigated through the preservation and management of foraging habitat at a ratio of 1:1 (mitigation-to-impact) and subject to species management requirements specified in the Solano HCP or standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP. Mitigation shall be provided in the Irrigated Agriculture, Valley Floor Grassland, or Inner Coast Range Potential Reserve Areas (see the Vernal Pool Potential Preserve and Reserve Areas figure in the Solano HCP) or in areas identified in standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP.	Project applicants	Prior to issuance of grading, construction, or building permits	City of Vacaville Community Development Department	Plan review and approval	Once per development project
<i>Exceptions:</i> Impacts that are likely to have minimal effects on the					

TABLE 6-1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
<p>extent and quality of Swainson’s hawk foraging habitat are exempt from Swainson’s hawk foraging habitat mitigation requirements. Such activities include: projects affecting less than one year of forage production, activities related to establishment of natural habitats (e.g. aquatic, riparian, and grassland habitats), construction of infill developments that are less than 5 acres in size and surrounded by urban development and other minor public and private facilities accessed via existing roads or that impact less than 0.5 acres of potential Swainson’s hawk foraging habitat (e.g. pump stations, antennae sites, new irrigation canals, buried pipelines, or utilities).</p>	Project applicants	Prior to issuance of grading, construction, or building permits	City of Vacaville Community Development Department	Plan review and approval	Once per development project
<p><b>BIO-13:</b> Mitigation for the permanent (i.e. more than one season) disturbance, destruction, or conversion of burrowing owl habitat<sup>36</sup> for urban development or other permanent facilities shall be provided at a 1:1 ratio. Project sites that have been occupied during the nesting season at any time during the past three years or found to be nesting at the time of pre-construction surveys will be considered occupied by owls and require additional nesting habitat mitigation (described in the Solano HCP or standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP). All burrowing owl habitat affected either directly, indirectly, or cumulatively by the project will be subject to the compensation requirement. Mitigation lands used to satisfy mitigation measures for other natural communities and/or species identified in Tables 4.4-2 and 4.4-3 of the Draft EIR (i.e. valley floor grassland and vernal pool natural community [excluding the wetland restoration/construction component], coastal marsh natural community, Swainson’s hawk, California red-legged frog, and callippe silverspot butterfly) can be used to satisfy burrowing owl conservation if the reserve area meets the basic burrowing owl reserve management standards and criteria specified in the Solano HCP or standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP.</p>	Project applicants	Prior to issuance of grading, construction, or building permits	City of Vacaville Community Development Department	Plan review and approval	Once per development project

TABLE 6-1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
<p><i>Exemptions:</i> Infill projects less than 5 acres in size and surrounded by urban development would have minimal effects on the extent and quality of burrowing owl habitat and are exempt from burrowing owl foraging habitat mitigation requirements unless a known or active nest is present. Additionally, project proponents are obligated to avoid destruction of active burrowing owl nests and take of burrowing owls in compliance with the federal Migratory Bird Treaty Act (MBTA) and California Fish and Game Code Section 3503.5 and to meet the requirements specified in the Solano HCP or standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP.</p>					
<p><b>BIO-14:</b> If construction of pump stations, antennae sites, new irrigation canals, buried pipelines, or utilities (but excluding restoration and reserve management activities) will result in temporary impacts to occupied burrowing owl habitat (e.g. closure, collapse due to ground disturbance, or disturbance in the construction zone), impacts shall be mitigated according to the following criteria at all times of the year:</p> <p><b>1. Temporary Impacts Less Than or Equal to 1 Acre in Size:</b> Install five burrows within 330 feet of the edge of the construction area if suitable contiguous habitat remains and no more than one pair of owls without eggs or young in the nest is displaced. This condition may be waived if an approved biologist, the City, and CDFW determine that the contiguous area already contains suitable donor burrows. Maintain vegetation height at 6 inches or less around the mitigation burrows to encourage use by owls.</p> <p>a. A monitoring program will be implemented to track and document the use of nearby natural or artificial burrows by evicted owls. Monitoring will be funded by the applicant conducting the project. Monitoring results will be reported to the City and CDFW at the end of the project.</p> <p>b. Artificial burrows will be maintained by the applicant who owns the project that results in burrow or habitat</p>	Project applicants	Prior to issuance of grading, construction, or building permits	City of Vacaville Community Development Department and Solano County Water Agency	Plan review and approval; site inspections	Once before construction begins, annually during construction, and two years following completion of construction. Disturbed areas shall also be monitored the following breeding season to determine if the owls return to the area to nest.

TABLE 6-1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
<p>destruction. Artificial burrows shall be maintained for a minimum of two years following completion of the project that resulted in the temporary impact. The construction site will be monitored annually to ensure that natural burrows have been re-established on the construction site.</p> <p>1) If burrows have not been re-established on the construction site within two years but owls are using other ground squirrel burrows on or adjacent to the site, then the artificial burrows will not require maintenance beyond the two-year period and no additional mitigation will be required.</p> <p>2) If the burrows have not been re-established in the construction area and owls are not using other natural burrows on or adjacent to the construction site within two years, then the impact will be considered permanent and mitigation will be required according to Mitigation Measure BIO-13.</p> <p>c. The disturbed area shall also be monitored the following breeding season to determine if the owls return to the area to nest. If the owls do not return or relocate to a nearby site, the impacts will be required to provide additional mitigation per the Solano HCP or standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP.</p> <p>d. If the above measures cannot be implemented because adequate habitat is not present in surrounding, contiguous lands, impacts shall be mitigated per the requirements of the Solano HCP or standardized policies developed by the City per proposed General Plan Action COS-A1.1 that shall be based on the principles found in the current working draft of the Solano HCP.</p> <p>2. <b>Temporary Impacts Greater Than 1 Acre in Size:</b> Install ten burrows/acre within 330 feet of the construction area if at least 7 acres of contiguous habitat remains and no more</p>					

TABLE 6-1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
<p>than one pair of owls without eggs or young in the nest is displaced. Also maintain vegetation height at 6 inches or less around the mitigation burrows to encourage use by owls. This condition may be waived if an approved biologist, the City, and CDFW determine that the contiguous area already contains suitable donor burrows. A monitoring program will be implemented to track and document the use of nearby natural or artificial burrows by evicted owls. Monitoring will be funded by the applicant conducting the project. Monitoring results will be reported to the City and CDFW at the end of the project.</p> <p>a. Artificial burrows will be maintained by the applicant that owns the project that results in burrow or habitat destruction. Artificial burrows shall be maintained for a minimum of two years following completion of the project that resulted in the temporary impact. The construction site will be monitored annually to ensure that natural burrows have been re-established on the construction site.</p> <p>1) If burrows have not been re-established on the construction site but owls are using other ground squirrel burrows on or adjacent to the site, then the artificial burrows will not require maintenance beyond the two-year period and no additional mitigation will be required.</p> <p>2) If the burrows have not been re-established in the construction area and owls are not using other natural burrows on or adjacent to the construction site within two years, then the impact will be considered permanent and mitigation will be required according to Mitigation Measure BIO-13.</p> <p>b. Temporary impacts that cannot be mitigated with mitigation burrows due to the lack of suitable burrowing owl habitat on a project site or contiguous ownership parcels shall be mitigated by preserving burrowing owl habitat off site at a ratio of 1:1. Sites subject to temporary impacts that are occupied by more than one pair of owls likewise</p>					

TABLE 6-1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
<p>will be mitigated at a 1:1 ratio. All habitat areas disturbed, destroyed, or converted to non-habitat uses directly, indirectly, or cumulatively will be subject to the mitigation requirement.</p> <p>Compliance with this Mitigation Measure does not allow for the destruction or disturbance of an active nest site.</p>					
<b>NOISE</b>					
<p><u>NOI-1:</u> The project applicant shall ensure that the following roadway segments shall be re-surfaced with a quiet pavement, such as Rubberized Hot Mix Asphalt – Open Graded (RHMA-O):</p> <ul style="list-style-type: none"> <li>◆ Vaca Valley Parkway from the Interstate 505 northbound ramps to Leisure Town Road</li> <li>◆ Leisure Town Road from Alamo Drive to Vanden Road</li> <li>◆ Ulatis Drive from Nut Tree Road to Leisure Town Road</li> </ul>	Project applicants with projects affected by identified roadways	Prior to issuance of building permits	City of Vacaville Community Development and Public Works Departments	Project approvals will be conditioned to provide quiet pavement; construction plan review and approval and site inspections shall validate that quiet pavement is specified and provided.	Three times per development project (Conditions, Construction Plans, Inspection)
<b>TRAFFIC AND TRANSPORTATION</b>					
<p><u>TRAF-1:</u> The City of Vacaville shall implement the following measures [for the Alamo Drive at Marshall Road intersection]:</p> <ul style="list-style-type: none"> <li>◆ Southbound approach: Convert the southbound through-right shared lane in order to a through lane and add a southbound right-turn lane to provide an exclusive right-turn lane, a through lane, a left-turn lane.</li> <li>◆ Westbound approach: Add a left-turn lane on the westbound to provide dual left-turn lanes, two through lanes and a through-right shared lane.</li> </ul>	City of Vacaville Public Works Department through implementation of the transportation portion of the Development Impact Fee (DIF) and, as appropriate, project-specific conditions of approval	When LOS falls below mid-D	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing
<p><u>TRAF-2:</u> The City of Vacaville shall implement the following measure [for the Alamo Drive at Merchant Street intersection]:</p> <ul style="list-style-type: none"> <li>◆ Westbound approach: Convert the westbound outer through lane to a through-right shared lane to provide a through lane, a through-right shared lane, a right-turn lane, and two left-turn lanes.</li> </ul>	City of Vacaville Public Works Department through implementation of the transportation portion of the DIF and, as appropriate, project-specific conditions of approval	When LOS falls below mid-D	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing
<p><u>TRAF-3:</u> The City of Vacaville shall implement the following measure [for the Allison Drive at Nut Tree Parkway intersec-</p>	City of Vacaville Public Works Department through	When LOS falls below mid-D	City of Vacaville Public Works	Verification that improvement is	Ongoing

TABLE 6-1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
tion]: <ul style="list-style-type: none"> <li>◆ Northbound approach: Convert the northbound through-right shared lane to a through lane and add a right-turn lane to provide three through lanes and a right-turn lane.</li> <li>◆ Southbound approach: Convert the southbound left-through lane to an exclusive left-turn lane to provide two left-turn lanes and two through lanes.</li> <li>◆ Modify the traffic signal phasing to provide a protected left-turn phase on the southbound approach.</li> </ul>	implementation of the transportation portion of the DIF and, as appropriate, project-specific conditions of approval		Department	constructed	
<u>TRAF-4:</u> The City of Vacaville shall implement the following measure [for the Leisure Town Road at Alamo Drive intersection]: <ul style="list-style-type: none"> <li>◆ Eastbound approach: Add an eastbound left-turn lane to provide dual left-turn lanes, a through lane, and a right-turn lane.</li> </ul>	City of Vacaville Public Works Department as plans and construction of Jepson Parkway improvements are considered, as part of the transportation portion of DIF updates, or as project-specific conditions of approval	When LOS falls below mid-D	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing; as part of planned improvements for Jepson Parkway or as part of the transportation portion of DIF updates
<u>TRAF-5:</u> The City of Vacaville shall implement the following measures [for the Leisure Town Road at Elmira Road intersection]: <ul style="list-style-type: none"> <li>◆ Northbound approach: Add one left-turn lane and one right-turn lane, and convert the through-right shared lane to a through lane to provide two left-turn lanes, two through lanes, and a right-turn lane.</li> <li>◆ Southbound approach: Add one left-turn lane and one right-turn lane, and convert the through-right lane shared to a through lane to provide two left-turn lanes, two through lanes, and a right-turn lane.</li> <li>◆ Eastbound approach: Add a left-turn lane and one through lane, and convert the through-left shared lane to a through lane to provide one left turn lane, two through lanes, and a right-turn lane.</li> <li>◆ Westbound approach: Add a right-turn lane and convert the through-right shared lane to a through lane to provide one left-turn lane, two through lanes, and a right-turn lane.</li> </ul>	City of Vacaville Public Works Department as plans and construction of Jepson Parkway improvements are considered, as part of the transportation portion of DIF updates, or as project-specific conditions of approval	When LOS falls below mid-D	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing; as part of planned improvements for Jepson Parkway or as part of the transportation portion of DIF updates

TABLE 6-1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
<p><u>TRAF-6:</u> The City of Vacaville, in coordination with Caltrans, shall implement the following measure [for the Leisure Town Road at Interstate 80 Eastbound Ramps]:</p> <ul style="list-style-type: none"> <li>◆ Eastbound approach: Add a right-turn lane to the eastbound off-ramp approach to provide a left-turn lane, a left-through shared lane, and a right-turn lane.</li> </ul>	City of Vacaville Public Works Department through implementation of the transportation portion of the DIF and, as appropriate, project-specific conditions of approval; with Caltrans	When LOS falls below mid-D	City of Vacaville as project(s) impact intersection; Caltrans as cumulative impacts warrant	Verification that improvement is constructed	Ongoing
<p><u>TRAF-7:</u> The City of Vacaville shall implement the following measures [for the Leisure Town Road at Orange Drive intersection]:</p> <ul style="list-style-type: none"> <li>◆ Southbound approach: Add a southbound left-turn lane to provide two left-turn lanes, two through lanes, and a right-turn lane; and prohibit the southbound U-turn movement.</li> <li>◆ Westbound approach: Modify the traffic signal to provide overlap right-turn phasing for the westbound right-turn movement.</li> </ul>	City of Vacaville Public Works Department as plans and construction of Jepson Parkway improvements are considered, as part of the transportation portion of DIF updates, or as project-specific conditions of approval	When LOS falls below mid-D	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing; as part of planned improvements for Jepson Parkway or as part of the transportation portion of DIF updates
<p><u>TRAF-8:</u> The City of Vacaville shall implement the following measures [for the Monte Vista Avenue at Allison Drive intersection]:</p> <ul style="list-style-type: none"> <li>◆ Northbound approach: Convert a northbound through lane to a right-turn lane to provide two left-turn lanes, one through lane, and two right-turn lanes; and modify the traffic signal phasing to provide overlap northbound right-turn movement.</li> <li>◆ Westbound approach: Prohibit westbound U-turn movements; convert a westbound through lane to a left-turn lane to provide two left-turn lanes, one shared through-right turn lane.</li> </ul>	City of Vacaville Public Works Department through implementation of the transportation portion of the DIF and, as appropriate, project-specific conditions of approval	When LOS falls below mid-D	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing
<p><u>TRAF-9:</u> The City of Vacaville shall implement the following measure [for the Nut Tree Road at Elmira Road intersection]:</p> <ul style="list-style-type: none"> <li>◆ Southbound approach: Convert a southbound through lane to a left-turn lane to provide two left-turn lanes, one through lane, and one through-right shared lane.</li> </ul>	City of Vacaville Public Works Department through implementation of the transportation portion of the DIF and, as appropriate, project-specific conditions of approval	When LOS falls below mid-D	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing
<p><u>TRAF-10:</u> The City of Vacaville shall implement the following</p>	City of Vacaville Public Works Department through	When LOS falls below mid-D	City of Vacaville Public Works	Verification that improvement is	Ongoing

TABLE 6-1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
measures [for the Orange Drive at Nut Tree Road intersection]: ♦ Northbound approach: Add a northbound right-turn lane and convert the through-right shared lane to a through lane to provide one left-turn lane, two through lanes, and a right-turn lane; provide lagging left-turn signal phasing. ♦ Southbound approach: Add a southbound right-turn lane and convert the through-right shared lane to a through lane to provide two left-turn lanes, two through lanes, and a right-turn lane; provide lagging left-turn signal phasing. ♦ Westbound approach: Convert a westbound through lane to a left-turn lane to provide three left-turn lanes, two through lanes, and one right-turn lane.	implementation of the transportation portion of the DIF and, as appropriate, project-specific conditions of approval		Department	constructed	
<u>TRAF-11:</u> The City of Vacaville shall implement the following measure [for the Peabody Road at Cliffside Drive intersection]: ♦ Eastbound approach: Add an eastbound left-turn lane to provide two-left turn lanes, a through-left shared lane, and a right-turn lane, and modify the lane alignment of the east-west movements.	City of Vacaville Public Works Department through implementation of the transportation portion of the DIF and, as appropriate, project-specific conditions of approval	When LOS falls below mid-D	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing
<u>TRAF-12:</u> The City of Vacaville shall implement the following measures [for the Peabody Road at CSF intersection]: ♦ Southbound approach: Add a southbound right-turn lane and convert the through-right shared lane to a through lane to provide a left-turn lane, a through-left shared lane, and a right-turn lane. ♦ South leg: Add a corresponding receiving lane on the south leg of the intersection.	City of Vacaville Public Works Department through implementation of the transportation portion of the DIF and, as appropriate, project-specific conditions of approval	When LOS falls below mid-D	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing
<u>TRAF-13:</u> The City of Vacaville shall implement the following measures [at the Peabody Road at Elmira Road intersection]: ♦ Eastbound approach: Add an eastbound left-turn lane to provide two left-turn lanes, two through lanes, and one right-turn lane; modify the traffic signal to provide overlap east-bound right-turn phasing. ♦ Northbound approach: Prohibit northbound U-turn movement. ♦ Westbound approach: Convert a through lane to a left-turn	City of Vacaville Public Works Department through implementation of the transportation portion of the DIF and, as appropriate, project-specific conditions of approval	When LOS falls below mid-D	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing

TABLE 6-1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
lane to provide two left-turn lanes, one through lane, and a through-right shared lane.					
<p><b>TRAF-14:</b> The City of Vacaville shall implement the following measure [for the Peabody Road at Foxboro Parkway intersection]:</p> <ul style="list-style-type: none"> <li>◆ Northbound approach: Convert the northbound through-right shared lane to a through lane and add a right-turn lane to provide two through lanes and a right-turn lane.</li> </ul>	City of Vacaville Public Works Department through implementation of the transportation portion of the DIF and, as appropriate, project-specific conditions of approval	When LOS falls below mid-D	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing
<p><b>TRAF-15:</b> The City of Vacaville shall implement the following measures [for the Peabody Road at Hume Way intersection]:</p> <ul style="list-style-type: none"> <li>◆ Eastbound approach: Convert the westbound through lane to a left-through shared lane to provide a left-turn lane, a left-through shared lane, and a right-turn lane; and modify the traffic signal to provide overlap right-turn phasing.</li> <li>◆ Northbound approach: Prohibit northbound U-turn movement.</li> </ul>	City of Vacaville Public Works Department through implementation of the transportation portion of the DIF and, as appropriate, project-specific conditions of approval	When LOS falls below mid-D	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing
<p><b>TRAF-16:</b> The City of Vacaville shall implement the following measure [for the Vaca Valley Road at Crescent Drive intersection]:</p> <ul style="list-style-type: none"> <li>◆ Southbound approach: Convert the through-right shared lane to a left-through-right shared lane to provide a left-turn lane and a left-through-right shared lane; modify the traffic signal to provide split phase operation on the north-south approaches.</li> </ul>	City of Vacaville Public Works Department through implementation of the transportation portion of the DIF and, as appropriate, project-specific conditions of approval	When LOS falls below mid-D	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing
<p><b>TRAF-17:</b> The City of Vacaville shall implement the following measures [for the Vaca Valley Road at East Akerly Drive intersection]:</p> <ul style="list-style-type: none"> <li>◆ Northbound approach: Convert the northbound through lane to a through-right shared lane to provide a left-turn lane, a through-right shared lane, and a right-turn lane; modify the traffic signal to provide split phase operations on the north-south approaches.</li> <li>◆ Westbound approach: Convert the westbound through lane to a left-turn lane to provide two left-turn lanes and a through-right shared lane.</li> </ul>	City of Vacaville Public Works Department through implementation of the transportation portion of the DIF and, as appropriate, project-specific conditions of approval	When LOS falls below mid-D	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing

TABLE 6-1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
<p><b>TRAF-18:</b> The City of Vacaville shall implement the following measures [for the Vaca Valley Road at New Horizons Way intersection]:</p> <ul style="list-style-type: none"> <li>◆ Eastbound approach: Add an eastbound left-turn lane to provide two-left turn lanes, a through lane, and a through-right shared lane.</li> <li>◆ Northbound approach: Convert the northbound through lane to a left-turn lane to provide two left-turn lanes and a through-right shared lane.</li> </ul>	City of Vacaville Public Works Department through implementation of the transportation portion of the DIF and, as appropriate, project-specific conditions of approval	When LOS falls below mid-D	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing
<p><b>TRAF-19:</b> The City of Vacaville shall implement the following measure [for the Leisure Town Road at Midway Road intersection]:</p> <ul style="list-style-type: none"> <li>◆ Install a traffic signal at the intersection as the peak hour traffic signal warrant would be met.</li> </ul>	City of Vacaville Public Works Department through implementation of the transportation portion of the DIF and, as appropriate, project-specific conditions of approval	When LOS falls below mid-D	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing
<p><b>TRAF-20:</b> The City of Vacaville shall implement the following measure [for the Monte Vista Avenue at Airport Road intersection]:</p> <ul style="list-style-type: none"> <li>◆ Install a traffic signal at the intersection as the peak hour traffic signal warrant would be met in the PM peak hour.</li> </ul>	City of Vacaville Public Works Department through implementation of the transportation portion of the DIF and, as appropriate, project-specific conditions of approval	When LOS falls below mid-D	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing
<p><b>TRAF-21:</b> The City of Vacaville, in coordination with Caltrans, shall implement the following measure [for the Cherry Glen Road at Interstate 80 Eastbound Ramp intersection]:</p> <ul style="list-style-type: none"> <li>◆ Install a traffic signal at the intersection as the peak hour traffic signal warrant would be met.</li> </ul>	City of Vacaville Public Works Department through implementation of the transportation portion of the DIF and, as appropriate, project-specific conditions of approval; with Caltrans	When LOS falls below mid-E or the worst approach falls below E	City of Vacaville as project(s) impact intersection; Caltrans as cumulative impacts warrant	Verification that improvement is constructed	Ongoing
<p><b>TRAF-22:</b> The City of Vacaville, in coordination with Caltrans, shall implement the following measure [for the Cherry Glen Road at Interstate 80 Westbound Ramps]:</p> <ul style="list-style-type: none"> <li>◆ Install stop signs on the northbound and southbound approaches to provide all-way stop control at the intersection.</li> </ul>	City of Vacaville Public Works Department through implementation of the transportation portion of the DIF and, as appropriate, project-specific conditions of approval; with Caltrans	When LOS falls below mid-E or the worst approach falls below E	City of Vacaville as project(s) impact intersection; Caltrans as cumulative impacts warrant	Verification that improvement is constructed	Ongoing

TABLE 6-1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
<p><u>TRAF-23:</u> The City of Vacaville shall implement the following measure [for the Leisure Town Road at Gilley Way intersection]:</p> <ul style="list-style-type: none"> <li>◆ Install a traffic signal at the intersection as the peak hour traffic signal warrant would be met.</li> </ul>	City of Vacaville Public Works Department as plans and construction of Jepson Parkway improvements are considered, as part of the transportation portion of DIF updates, or as project-specific conditions of approval	When LOS falls below mid-E or the worst approach falls below E	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing; as part of planned improvements for Jepson Parkway or as part of the transportation portion of DIF updates
<p><u>TRAF-24:</u> The City of Vacaville shall implement the following measure [for the Leisure Town Road at Marshall Road intersection]:</p> <ul style="list-style-type: none"> <li>◆ Install a traffic signal at the intersection as the peak hour traffic signal warrant would be met.</li> </ul>	City of Vacaville Public Works Department as plans and construction of Jepson Parkway improvements are considered, as part of the transportation portion of DIF updates, or as project-specific conditions of approval	When LOS falls below mid-E or the worst approach falls below E	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing; as part of planned improvements for Jepson Parkway or as part of the transportation portion of DIF updates
<p><u>TRAF-25:</u> The City of Vacaville shall implement the following measure [for the Leisure Town Road at North-South Arterial intersection]:</p> <ul style="list-style-type: none"> <li>◆ Provide a storage pocket on the south leg to allow a two-stage, eastbound, left-turning movement.</li> </ul>	City of Vacaville Public Works Department as plans and construction of Jepson Parkway improvements are considered, as part of the transportation portion of DIF updates, or as project-specific conditions of approval	When LOS falls below mid-E or the worst approach falls below E	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing; as part of planned improvements for Jepson Parkway or as part of the transportation portion of DIF updates
<p><u>TRAF-26:</u> The City of Vacaville, in coordination with Caltrans, shall implement the following measures [for the Midway Road at Interstate 505 Northbound Ramp intersection]:</p> <ul style="list-style-type: none"> <li>◆ Install a traffic signal at the intersection as the peak hour traffic signal warrant would be met.</li> <li>◆ Eastbound approach: Convert the eastbound through-left shared lane to a through lane, and add a left-turn lane to provide a left-turn lane and a through lane.</li> </ul>	City of Vacaville Public Works Department through implementation of the transportation portion of the DIF and, as appropriate, project-specific conditions of approval; with Caltrans	When LOS falls below mid-E or the worst approach falls below E	City of Vacaville as project(s) impact intersection; Caltrans as cumulative impacts warrant	Verification that improvement is constructed	Ongoing

TABLE 6-1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
<p><u>TRAF-27:</u> The City of Vacaville, in coordination with Caltrans, shall implement the following measure [for the Midway Road at Interstate 505 Southbound Ramp intersection]:</p> <ul style="list-style-type: none"> <li>◆ Install a traffic signal at the intersection as the peak hour traffic signal warrant would be met.</li> </ul>	City of Vacaville Public Works Department through implementation of the transportation portion of the DIF and, as appropriate, project-specific conditions of approval; with Caltrans	When LOS falls below mid-E or the worst approach falls below E	City of Vacaville as project(s) impact intersection; Caltrans as cumulative impacts warrant	Verification that improvement is constructed	Ongoing
<p><u>TRAF-28:</u> The City of Vacaville shall implement the following measure [for the Nut Tree Road at Burton Drive intersection]:</p> <ul style="list-style-type: none"> <li>◆ Install a traffic signal at the intersection as the peak hour traffic signal warrant would be met.</li> </ul>	City of Vacaville Public Works Department as signal prioritization is updated citywide and as part of project-specific traffic studies for projects impacting this intersection	When LOS falls below mid-E or the worst approach falls below E	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing as signal prioritization and as part of project impact assessments
<p><u>TRAF-29:</u> The City of Vacaville shall implement the following measure [for the Vaca Valley Road at Allison Drive intersection]:</p> <ul style="list-style-type: none"> <li>◆ Install stop signs on the eastbound and westbound approaches to provide all-way stop control at the intersection.</li> </ul>	City of Vacaville Public Works Department to monitor traffic operations for all-way stop warrants and install stop signs as warrants are met	When LOS falls below mid-E or the worst approach falls below E	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing monitoring of traffic operations as volumes by City staff and traffic studies for projects impacting this intersection
<p><u>TRAF-30:</u> The City of Vacaville shall implement the following measures [for the Monte Vista Avenue at Depot Road intersection]:</p> <ul style="list-style-type: none"> <li>◆ Northbound approach: Modify the traffic signal to allow an overlapping right-turn movement.</li> <li>◆ Westbound approach: Prohibit westbound U-turn movements.</li> </ul>	City of Vacaville Public Works Department through implementation of the transportation portion of the DIF and, as appropriate, project-specific conditions of approval	When LOS falls below D	City of Vacaville Public Works Department	Verification that improvement is constructed	Ongoing
<p><u>TRAF-31:</u> The City of Vacaville, in coordination with Caltrans and the City of Fairfield, shall implement the following measures [for the Interstate 80 Eastbound Ramps at North Texas Street intersection]:</p> <ul style="list-style-type: none"> <li>◆ Eastbound approach: Convert the eastbound through-left shared lane to a left-through-right shared lane and add a right</li> </ul>	City of Vacaville Public Works Department as projects are determined to impact this intersection and in support of Fairfield addressing cumulative impacts; with Caltrans and	When LOS falls below D	City of Fairfield and Caltrans	Verification that improvement is constructed	As accomplished by the City of Fairfield and as conditioned for projects impacting this intersection

TABLE 6-1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
lane to provide one left-through-right shared lane, two exclusive right lanes. ♦ Southbound approach: Add one southbound through lane to provide one left-turn lane and two through lanes.	the City of Fairfield				
<u>TRAF-32:</u> The City of Vacaville, in coordination with Caltrans and the City of Fairfield, shall implement the following measure [for the Interstate 80 Westbound Ramps at North Texas Street intersection]: ♦ Northbound approach: Restripe the northbound approach lanes on North Texas Street to provide two right-turn lanes, a through lane, and one left-turn lane.	City of Vacaville Public Works Department as projects are determined to impact this intersection and in support of Fairfield addressing cumulative impacts; with Caltrans and the City of Fairfield	When LOS falls below D	City of Fairfield and Caltrans	Verification that improvement is constructed	As accomplished by the City of Fairfield and as conditioned for projects impacting this intersection
<u>TRAF-33:</u> The City of Vacaville, in coordination with the City of Fairfield, shall implement the following measures [for the Peabody Road at Air Base Parkway intersection]: ♦ Eastbound approach: Add an eastbound left-turn lane to provide three left-turn lanes and two through lanes. ♦ Westbound approach: Add a westbound right-turn lane to provide two right-turn lanes and two through lanes; modify traffic signal to allow right-turn overlap phasing. ♦ Southbound approach: Prohibit southbound U-turn movement.	City of Vacaville Public Works Department as projects are determined to impact this intersection and in support of Fairfield addressing cumulative impacts; with the City of Fairfield	When LOS falls below D	City of Fairfield	Verification that improvement is constructed	As accomplished by the City of Fairfield and as conditioned for projects impacting this intersection
<u>TRAF-34:</u> The City of Vacaville, in coordination with the City of Fairfield, shall implement the following measures [for the Peabody Road at Jepson Parkway intersection]: ♦ Northbound approach: Add one northbound left-turn lane, one through lane, and one right-turn lane to provide two left-turn lanes, three through lanes, and two right-turn lanes. ♦ Southbound approach: Add two southbound through lanes and one right-turn lane to provide one left-turn lane, three through lanes and two right-turn lanes. ♦ Eastbound approach: Add one eastbound left-turn lane, one through lane, and one right-turn lane, and convert the through-right shared lane to an exclusive right-turn lane to provide two left-turn lanes, three through lanes, and two right-turn lanes.	City of Vacaville Public Works Department as projects are determined to impact this intersection, in support of Fairfield addressing cumulative impacts and regional efforts to support Jepson Parkway improvements; with the City of Fairfield	When LOS falls below D	City of Fairfield	Verification that improvement is constructed	As accomplished by the City of Fairfield and as conditioned for projects impacting this intersection

TABLE 6-1 MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring	Monitoring Action	Monitoring Frequency
<ul style="list-style-type: none"> <li>◆ Westbound approach: Add one westbound left-turn lane and one through lane to provide two left-turn lanes, two through lanes, and one through-right shared lane.</li> </ul>					