

<b>MITIGATION MONITORING AND REPORTING</b>				
IMPACT	MITIGATION MEASURE	IMPLEMENTATION	MONITORING	OUTSIDE AGENCY COORDINATION
	stabilizing disturbed areas; erosion controls; proper management of construction materials; waste management; aggressive litter control; and sediment controls.			
<b>GEOLOGY/SOIL/SEISMICITY</b>				
<p><b>Surface Fault Rupture and Ground Shaking:</b> The potential for surface ground shaking from distant earthquakes exists. Additionally, a known fault, the Eagle Rock Fault, passes under La Loma Bridge roughly between bridge piers 4 and 5. According to the Geotechnical Evaluation, the Verdugo Fault is the appropriate analog for the maximum earthquake magnitude on the Eagle Rock Fault, that is, 6.0 to 6.8. In addition to the Eagle Rock Fault, field observations indicated that another fault lies just north of the mapped Eagle Rock Fault. Nothing further is known to date regarding this as yet unnamed fault.</p>	<p><b>GS-1</b> Construction and design of the proposed project shall be built in compliance with current construction and seismic codes and standards, which would reduce potential seismic hazard risks to acceptable levels. In addition, the new fault located at La Loma Bridge shall be subject to further study and geotechnical analysis. Specific design and construction measures recommended in subsequent geotechnical studies to reduce geologic or seismic hazards shall be implemented.</p>	<p><b>Responsible Party(s)</b> Design Engineer Construction Contractor</p> <p><b>Phase</b> Design Construction</p>	<p><b>Responsible Party(s)</b> City Project Manager</p> <p><b>Activity</b> (1) Check that geotechnical studies are completed. (2) Check that appropriate seismic standards are incorporated into the construction plans and specifications. (3) Inspect construction for compliance with plans.</p> <p><b>Monitoring Period</b> (1) Design (2) Pre-construction (3) Construction</p> <p><b>Frequency</b> (1) Once during design. (2) Once during pre-construction. (3) As necessary during construction.</p>	N/A

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<p><b>PALEONTOLOGICAL RESOURCES</b></p> <p>There is a high probability that unique paleontological resources are present on the project site. If resources are encountered, they could be destroyed during project-related, ground-disturbing construction-period activities.</p>	<p><b>PR-1</b> Excavation shall be monitored by a qualified paleontologic monitor in areas (i.e., Topanga Formation, older alluvium) identified as likely to contain paleontologic resources. The monitor shall be equipped to salvage fossils and samples of sediments as they are unearthed to avoid construction delays. The resident engineer shall temporarily halt or divert equipment to allow removal of abundant or large specimens. Monitoring may be reduced if the potentially fossiliferous units, previously described, are not found to be present or, if present, are determined by qualified paleontologic personnel to have a low potential to contain fossil resources.</p>	<p><b>Responsible Party(s)</b>                      Qualified Paleontologic Monitor                      Resident Engineer                      Construction Contractor</p> <p><b>Phase</b>                      Construction</p>	<p><b>Responsible Party(s)</b>                      City Project Manager</p> <p><b>Activity</b>                      Check that a qualified paleontologic monitor is under contract and is onsite to monitor excavation.</p> <p><b>Monitoring Period</b>                      Construction</p> <p><b>Frequency</b>                      As necessary during construction.</p>	<p>N/A</p>
	<p>If paleontological resources are uncovered during construction of the proposed project, the following measures shall be implemented:</p> <p><b>PR-2</b> Recovered specimens shall be prepared to a point of identification and permanent preservation, including washing of sediments to recover small invertebrates and vertebrates. Identification shall include an assessment by a qualified paleontologist to determine if a recovered specimen qualifies for protection as a unique or "historical resource" under Section 15064.5 of the Public Resources Code.</p> <p><b>PR-3</b> Unique specimens worthy of preservation shall be curated into a professional, accredited museum repository with permanent retrievable storage.</p> <p><b>PR-4</b> A report of findings, with an appended, itemized inventory of specimens, shall be prepared. The report and</p>	<p><b>Responsible Party(s)</b>                      Qualified Paleontologist                      City Project Manager</p> <p><b>Phase</b>                      Construction and Post-construction</p>	<p><b>Responsible Party(s)</b>                      City Project Manager</p> <p><b>Activity</b>                      Check that recovered specimens are properly prepared, analyzed, and curated. Check that a report of findings is prepared.</p> <p><b>Monitoring Period</b>                      Construction and Post-construction</p> <p><b>Frequency</b>                      As necessary during construction and post-construction.</p>	<p>An accredited museum</p>

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	inventory, when submitted to the City, would signify completion of the program to mitigate impacts to paleontologic resources.			
<b>HAZARDOUS WASTEMATERIALS</b>				
<p><b>Contaminated Soil:</b> No significant sources of hazardous materials contamination have been identified in the immediate area, consequently, there is a low potential to encounter previously unknown sources of soil or groundwater contamination during construction.</p>	<p><b>HM-1</b> During excavation for the proposed structures, the contractor shall observe the exposed soil for visual evidence of contamination. If visual contamination indicators are observed during excavation or grading activities, all work shall stop and an investigation shall be designed and performed to verify the presence and extent of contamination at the site. A qualified and approved environmental consultant shall perform the review and investigation. Results shall be reviewed and approved by the Los Angeles County Fire Department (LACFD) Health Hazardous Materials Division or California Department of Toxic Substances Control (DTSC) prior to construction. The investigation shall include collecting samples for laboratory analysis and quantifying contaminant levels within the proposed excavation and surface disturbance areas. Subsurface investigation shall determine appropriate worker protection and hazardous material handling and disposal procedures appropriate for the subject site.</p>	<p><b>Responsible Party(s)</b>                      City Project Manager                      Construction Contractor                      Qualified Environmental Consultant  <b>Phase</b>                      Construction</p>	<p><b>Responsible Party(s)</b>                      City Project Manager  <b>Activity</b>                      (1) Check that excavation/grading activities are halted if soil contamination is observed.                      (2) Check that qualified environmental consultant performs site investigation.                      (3) Check that results of site investigation are reviewed/approved by either the LACFD or DTSC.  <b>Monitoring Period</b>                      (1) Construction                      (2) Construction                      (3) Construction  <b>Frequency</b>                      (1) As necessary during construction.                      (2) Once during construction.                      (3) Once during construction.</p>	<p>Los Angeles County Fire Department                      Health Hazardous Materials Division or California Department of Toxic Substances Control (DTSC).</p>

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	<p><b>HM-2</b> Areas with contaminated soil determined to be hazardous waste shall be excavated by personnel who have been trained through the Occupational Safety and Health Administration (OSHA) recommended 40-hour safety program (29CFR1910.120), with an approved plan for excavation, control of contaminant releases to the air, and off-site transport or on-site treatment. Health and safety plans prepared by a qualified and approved industrial hygienist shall be developed to protect the public and all workers in the construction area. Health and safety plans shall be reviewed and approved by the appropriate agencies, such as the Los Angeles County Fire Department Health Hazardous Materials Division or DTSC.</p>	<p><b>Responsible Party(s)</b>                      OSHA-trained hazardous waste consultant/contractor</p> <p><b>Phase</b>                      Construction</p>	<p><b>Responsible Party(s)</b>                      City Project Manager</p> <p><b>Activity</b>                      If contaminated soils are encountered, check that approved plans for excavation, control, and transport of contaminated soil have been developed and implemented by OSHA-trained personnel.</p> <p><b>Monitoring Period</b>                      Construction</p> <p><b>Frequency</b>                      As necessary during construction.</p>	<p>Los Angeles County Fire Department Health Hazardous Materials Division or California Department of Toxic Substances Control (DTSC).</p>

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	<p>Although no there is no evidence that groundwater in the vicinity of the bridge contains high levels of contaminants or hazardous materials, the following measure shall be implemented:</p> <p><b>HM-3</b> Excavations below the elevations of groundwater could experience strong seepage and require dewatering. The contractor should observe the groundwater for visual evidence of contamination or unusual odors. The contractor shall comply with all applicable regulations and permit requirements for construction dewatering. This may include laboratory testing, treatment of contaminated groundwater, or other disposal options.</p>	<p><b>Responsible Party(s)</b> Construction Contractor <b>Phase</b> Construction</p>	<p><b>Responsible Party(s)</b> City Project Manager <b>Activity</b> (1) Check that contractor properly handles, tests, and treats any contaminated groundwater that may be encountered. (2) Check that contractor is following appropriate procedures and permitting for dewatering, if needed. <b>Monitoring Period</b> (1) Construction (2) Construction <b>Frequency</b> (1) As necessary during construction. (2) As necessary during construction.</p>	<p>Los Angeles County Fire Department Health Hazardous Materials Division or California Department of Toxic Substances Control (DTSC). Regional Water Quality Control Board.</p>

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<p><b>Asbestos-containing material:</b> Based on the age of the bridge, there is a potential that asbestos-containing material and lead-based paint may be present in the aggregate material of the existing bridge structure, pipe coverings, and/or in the pavement paint. Demolition and Rehabilitation of the bridge could potentially result in exposure and mobilization of asbestos-containing material and/or lead-based paint contaminants.</p>	<p>The following measure shall be implemented to ensure that any lead-based paint or asbestos-containing material present within or on the bridge does not pose a substantial hazard to workers or the public. <b>HM-4</b> Abatement of asbestos and lead paint shall be conducted in accordance with Southern California Air Quality Management District Rule 1403 prior to any demolition or bridge rehabilitation activities.</p>	<p><b>Responsible Party(s)</b> Hazardous Waste Contractor <b>Phase</b> Construction</p>	<p><b>Responsible Party(s)</b> City Project Manager <b>Activity</b> (1) Check that asbestos and lead based paint abatement procedures are included in construction plans and specifications. (2) Check that contractor follows appropriate procedures if such material is encountered. <b>Monitoring Period</b> (1) Pre-construction (2) Construction <b>Frequency</b> (1) Once during pre-construction. (2) As necessary during construction.</p>	

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<b>AIR QUALITY</b>				
<p><b>Emissions of Criteria Pollutants:</b> Construction activities would generate an estimated 110 pounds of volatile organic compounds (VOC), 693 pounds of nitrogen oxides (NO<sub>x</sub>), and 175 pounds of Particulate Matter (PM<sub>10</sub>) on the peak day, which would exceed the South Coast Air Quality Management District (SCAQMD) recommended significance thresholds of 75, 100, and 150 pounds/day, respectively.</p>	<p>To ensure significant adverse impacts from fugitive dust are reduced to a less-than-significant level during construction, the following measures shall be implemented:  <b>AQ-1</b> Water exposed surfaces three times a day.  <b>AQ-2</b> Apply soil stabilizers to inactive areas.  <b>AQ-3</b> Replace vegetative ground cover in inactive areas quickly, using perennials where possible.  <b>AQ-4</b> Cover all stockpiles with tarps.  <b>AQ-5</b> Install particulate filters on all diesel haul trucks.  <b>AQ-6</b> Use tarps to cover loads on all haul trucks.</p>	<p><b>Responsible Party(s)</b> Construction Contractor  <b>Phase</b> Construction</p>	<p><b>Responsible Party(s)</b> City Project Manager  <b>Activity</b> Inspect construction site for compliance with air quality mitigation measures.  <b>Monitoring Period</b> Construction  <b>Frequency</b> As necessary during construction.</p>	

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<p><b>NOISE</b></p> <p>During construction, a temporary increase in local noise levels in the neighborhoods near the bridge would occur. The use of hoe rams and sandblasting during construction would result in noise levels above the City's standard of 85 dBA.</p>	<p>As part of the construction contract, the contractor shall be required to follow the noise specifications in Section 7 of Caltrans Standard Specifications for Construction of Local Streets and Road (July 2002). The mitigation measures related to noise to be included in the construction contract are:</p> <p><b>N-1</b> The contractor shall comply with all local sound control and noise level rules, regulations, and ordinances, which apply to any work performed pursuant to the contract.</p>	<p><b>Responsible Party(s)</b> Construction Contractor</p> <p><b>Phase</b> Construction</p>	<p><b>Responsible Party(s)</b> City Project Manager</p> <p><b>Activity</b> Inspect construction activities to ensure compliance City noise regulations.</p> <p><b>Monitoring Period</b> Construction</p> <p><b>Frequency</b> As necessary during construction.</p>	<p>N/A</p>
<p></p>	<p><b>N-2</b> Each internal combustion engine, used for any purpose on the job or related to the job, shall be equipped with a muffler of a type recommended by the manufacturer. No internal combustion engine shall be operated on the project without a muffler.</p>	<p><b>Responsible Party(s)</b> Construction Contractor</p> <p><b>Phase</b> Construction</p>	<p><b>Responsible Party(s)</b> City Project Manager</p> <p><b>Activity</b> Check that equipment with internal combustion engines have mufflers.</p> <p><b>Monitoring Period</b> Construction</p> <p><b>Frequency</b> As necessary during construction.</p>	<p></p>



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	<p>Pursuant to Section 9.36.120 of the City of Pasadena Municipal Code, the contractor would be required to ensure that no equipment exceeds 85 dBA measured at 100 feet. In order to demonstrate that this level would not be exceeded, the following measure shall also be included in the construction contract:</p> <p><b>N-3</b> The contractor shall be required to provide the City with documentation prior to the start of construction demonstrating that each piece of heavy equipment that will be used on the construction site for more than 16 hours conforms to Section 9.36.120 of the City of Pasadena Municipal Code.</p>	<p><b>Responsible Party(s)</b> Construction Contractor</p> <p><b>Phase</b> Construction</p>	<p><b>Responsible Party(s)</b> City Project Manager</p> <p><b>Activity</b> (1) Check that mitigation measure is included in construction contract. (2) Check that documentation demonstrating compliance of equipment with City code is provided by the construction contractor.</p> <p><b>Monitoring Period</b> (1) Pre-construction (2) Pre-construction</p> <p><b>Frequency</b> (1) Once during pre-construction. (2) Once during pre-construction.</p>	

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	<p>As the hoe ram and sandblasting are likely to generate noise levels in excess of the 85 dBA standard at 100 feet, additional mitigation is recommended:</p> <p><b>N-4</b> Wherever feasible, the construction contractor shall do the following in order to reduce noise from hoe rams and sandblasting:</p> <p><u>Hoe Ram</u></p> <ol style="list-style-type: none"> <li>1. Use alternate methods for demolition and breaking concrete such as saw cutting.</li> <li>2. Shorten the duration of phase 3 by adding extra equipment and workers or by working extended days (but still within the hours allowed by the Municipal Code).</li> <li>3. Provide notice to local homeowners in advance of phase 3 construction activities (this will not decrease sound levels but is more of a courtesy).</li> </ol> <p><u>Sandblasting</u></p> <ol style="list-style-type: none"> <li>4. Enclose sandblasting activities with acoustical curtains or temporary, portable sound barriers.</li> <li>5. Adjust the pressure and abrasive mix levels to the lowest possible levels.</li> </ol>	<p><b>Responsible Party(s)</b> Construction Contractor</p> <p><b>Phase</b> Construction</p>	<p><b>Responsible Party(s)</b> City Project Manager</p> <p><b>Activity</b> Inspect construction site for compliance with mitigation measures.</p> <p><b>Monitoring Period</b> Construction</p> <p><b>Frequency</b> As necessary during construction.</p>	

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<p><b>BIOLOGICAL RESOURCES</b></p>				
<p><b>Wetlands and Other Waters of the US:</b> The proposed bridge alternatives do not include placement of bridge piling, arches, or other components within areas that would be defined by the Army Corps of Engineers (ACOE) as wetlands or waters of the United States or defined by California Department of Fish and Game (CDFG) as State streambeds, no direct impacts on jurisdictional habitat is expected. Best management practices would be implemented to ensure no construction materials or debris would be discharged into the channel or drainage ditch. Consequently, a Section 404 permit from ACOE will not be required, and a Streambed Alterations Agreement from CDFG is not anticipated.</p>	<p><b>BRW-1</b> The City shall comply with Section 402 of the Clean Water Act and National Pollutant Discharge Elimination System (NPDES) standards during and following construction to ensure that dirt, construction materials, pollutants, or other human-associated materials are not discharged from the project area. A certification from the Regional Water Quality Control Board will be required prior to project construction.</p>	<p><b>Responsible Party(s)</b> Construction Contractor</p> <p><b>Phase</b> Pre-construction Construction</p>	<p><b>Responsible Party(s)</b> City Project Manager</p> <p><b>Activity</b> (1) Check that certification is obtained from the Regional Water Quality Control Board. (2) Inspect construction site for compliance with NPDES requirements.</p> <p><b>Monitoring Period</b> (1) Pre-construction (2) Construction</p> <p><b>Frequency</b> (1) Once during pre-construction. (2) As necessary during construction.</p>	<p>N/A</p>

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<p><b>Vegetation:</b> The Bridge Retrofit and Rehabilitation Alternative would remove native and ruderal vegetation, including several oak and other trees. Additionally, Coast live oak trees and ruderal vegetation in the vicinity of construction activity may experience temporary indirect impacts due to dust generated from the construction area.</p>	<p><b>BRV-1</b> The City shall comply with the provisions of its Tree Protection Ordinance, including preparation of tree report by a certified arborist, and obtain necessary permits or approvals if any trees protected by the ordinance are to be removed or damaged during construction. If any native trees are removed, replacement trees shall be planted on-site or at an adjacent site along the Arroyo Seco.</p>	<p><b>Responsible Party(s)</b> City Project Manager Construction Contractor</p> <p><b>Phase</b> Pre-construction Construction</p>	<p><b>Responsible Party(s)</b> City Project Manager</p> <p><b>Activity</b> (1) Check that a tree report is prepared in compliance with the City's Tree Protection Ordinance. (2) Check that replacement trees are planted.</p> <p><b>Monitoring Period</b> (1) Pre-construction (2) Construction</p> <p><b>Frequency</b> (1) Once during pre-construction. (2) As necessary during construction.</p>	

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	BRV-2 If new landscaping is provided as part of the project, planting of invasive species shall be avoided.	<p><b>Responsible Party(s)</b> Construction Contractor</p> <p><b>Phase</b> Construction</p>	<p><b>Responsible Party(s)</b> City Project Manager</p> <p><b>Activity</b> (1) Check to landscaping plans to ensure they do not include invasive species. (2) Inspect installation of landscaping to ensure invasive species are not planted.</p> <p><b>Monitoring Period</b> (1) Design (2) Construction</p> <p><b>Frequency</b> (1) Once during design. (2) As necessary during construction.</p>	

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<p><b>Wildlife:</b> Removal or destruction of one or more active nests of native birds, whether nest damage due to tree removal, bridge demolition, repair, or other construction activities, would be considered a violation of the Migratory Bird Treaty Act.</p>	<p><b>BWL-1</b> In order to avoid or minimize the potential to remove or destroy occupied nests of native birds, percussive activities and demolition of the bridge structure and construction activities that result in grading or in the removal of shrubs or trees shall be conducted during the non-breeding season for birds (approximately September 1 through February 15). This would avoid violations of the MBTA and CDFG Code Sections 3503, 3503.5 and 3513. If construction activities cannot avoid the bird nesting season, the City of Pasadena (City) shall exclude birds from their nesting places on the bridge using netting or other effective measures to prevent birds from establishing nests on the bridge during the work period. The City of Pasadena shall retain the services of a qualified ornithologist to identify potential nesting areas and then retain the services of a qualified bird-netting installer to ensure that the correct netting is used and that it is installed correctly and does not trap birds or other wildlife. All excluded areas shall be inspected by a qualified biologist and certified to be free of animals before netting is installed. Additionally, the City of Pasadena shall retain the services of a qualified ornithologist to conduct a survey of the construction zone adjacent to and below the bridge. The ornithological survey shall occur not more than 2 days prior to the initiation of those construction activities to minimize the potential that bird nests are not initiated after the survey and prior to construction. If the ornithologist detects any occupied nests of native birds within the construction zone, the City shall conspicuously flag off the area(s) supporting bird nests and provide a minimum buffer of 100 feet between the nest and the limits of construction. The construction crew shall be instructed to avoid any activities in this zone until the bird nest(s) is/are no longer occupied per a subsequent survey by the qualified</p>	<p><b>Responsible Party(s)</b> City Project Manager Construction Contractor Qualified Ornithologist</p> <p><b>Phase</b> Construction</p>	<p><b>Responsible Party(s)</b> City Project Manager</p> <p><b>Activity</b> (1) Check whether grading and removal of vegetation and trees occurs during the non-breeding season. (2) If grading and grubbing occurs during bird breeding season, check that services of an ornithologist are retained. (3) Check that netting is installed on the bridge to prevent birds from nesting. (4) Check that ornithologist conducts bird survey of construction zone. (5) Check that bird nesting areas are properly buffered and flagged and that construction avoids the flagged areas.</p> <p><b>Monitoring Period</b> (1) through (5) Pre-construction</p> <p><b>Frequency</b> (1) through (5) Once during pre-construction.</p>	<p>USFWS</p>

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	<p>ornithologist. Alternatively, consultation shall occur, as appropriate, with the U.S. Fish and Wildlife Service (USFWS) to discuss the potential loss of nests of native birds covered by the MBTA to obtain, if necessary per the USFWS, a permit authorizing activities that may otherwise result in MBTA violations. Coordination with USFWS and CDFG shall also occur to determine an appropriate response if nests occupied by birds protected by the MBTA are discovered during the nesting bird survey.</p>			
<p><b>Special-Status Species:</b> Construction could result in removal of roosting locations for bat species of special concern that may forage in the area and use the bridge for roosting</p>	<p><b>BSS-1</b> A bat specialist shall survey the bridge in the early summer, prior to construction, to assess the potential for its use as a maternity roost. In addition, the bat specialist would be contacted regarding recommended timing for construction to avoid impacts on roosting bats should they be present at the bridge; normally, the fall and winter seasons are best to avoid impacts on roosting bats. If construction cannot be conducted during the period recommended by a bat specialist, the specialist shall conduct a preconstruction survey to determine whether roosting bats are present and shall be present during construction in the event that a bat colony is discovered to provide recommendations regarding construction activities and timing to minimize impacts on roosting bats.</p>	<p><b>Responsible Party(s)</b>                      Bat Specialist  <b>Phase</b>                      Pre-construction</p>	<p><b>Responsible Party(s)</b>                      City Project Manager  <b>Activity</b>                      (1) Check that a bat specialist is retained to conduct a pre-construction survey.                      (2) Check that survey is completed.                      (3) If presence of a roosting bat colony is confirmed, check to confirm that bat specialist is present during construction to provide recommendations to minimize construction impacts on roosting bats.  <b>Monitoring Period</b>                      (1) Pre-construction                      (2) Pre-construction                      (3) Construction.</p>	

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			<b>Frequency</b> (1) and (2) Once during pre-construction. (2) As necessary during construction.	



# **APPENDIX A**

## ***SAMPLE COMPLIANCE FORM***

**LA LOMA BRIDGE REHABILITATION REPLACEMENT PROJECT  
MITIGATION MEASURE MONITORING COMPLIANCE FORM**

Reporting Period:  Pre-Construction     Construction     Post-Construction

Report Date: \_\_\_\_\_

Mitigation Measure:

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Has the Mitigation Measure been implemented?

Yes             No

Notes:

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Is further action or monitoring required?

Yes             No

If yes, describe:

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Is consultation with outside agencies required?

Yes             No

If yes, identify agency: \_\_\_\_\_

Has consultation with outside agency been completed?

Yes             No

Monitoring Verified By: \_\_\_\_\_ Date: \_\_\_\_\_