

Appendix A
Initial Study

**CEQA GUIDELINES APPENDIX G
ENVIRONMENTAL CHECKLIST FORM**

1. Project Title: Replacement of the Farad Diversion Dam
2. Lead Agency Name and Address: State Water Resources Control Board
Division of Water Rights
901 P Street
Mail: PO Box 2000
Sacramento, CA 95812-2000
3. Contact Persons, Phone Numbers, and E- Mail: Jim Canaday, Environmental Specialist
(916) 657-2208, jcanaday@waterrights.swrcb.ca.gov
Russ Kanz, Environmental Specialist
(916)657-1971, rkanz@waterrights.swrcb.ca.gov
4. Project Location: The project site is within and along the Truckee River near Floriston, California. The site is shown in Section 30, T18N, R18E on the Boca, Calif.-Nev. 7½ Minute USGS Topographic Quadrangle.
5. Project Sponsor's Name and Address: Sierra Pacific Power Company
6100 Neil Road
Mail: PO Box 10100
Reno, NV 89520-0024
6. General Plan Designation: River: Open Space
Surrounding Area: Forest Recreation
7. Zoning: River: Open Space
Surrounding Area: Forest Recreation, 160-acre min. parcel size
8. Description of Project: (Describe the whole action involved, including but not limited to later phases of the project, and any secondary, support, or off-site features necessary for its implementation. (Attach additional sheets if necessary))

Sierra Pacific Power Company proposes to construct a diversion structure to replace the storm damaged Farad Diversion Weir, and thereby divert water to the Farad Power Plant. The proposed structure would generally consist of grouted rock and boulders. The low-water water bypass will be maintained by a chute with an adjustable crest. The proposed structure has been specifically designed to create suitable conditions for fish and boat passage at various river levels. In order to achieve these secondary objectives, the proposed location of the structure is approximately 600 feet upstream of the former location and immediately downstream of the Interstate 80 overcrossing. Shifting the structure to this location is proposed to maintain sufficient elevation for the water diversion while reducing the "drop" on the downstream face thus allowing the envisioned fish and boat passage. This location is within the reach of the river specified by the diversion entitlement and would not require modification of the existing entitlement. A water intake would be constructed on the river-left side of the diversion structure, and a 750± foot long conveyance structure is proposed from the water intake to the existing downstream off-channel canal. The conveyance structure would be constructed of 10-foot by 10-foot concrete box conduit with a wall thickness of approximately 18 to 24 inches. The structure would be founded on bedrock or on caissons drilled to bedrock and covered by approximately two to four feet of rock to protect it from rock slides originating on adjacent slopes. The existing off-channel canal will be restored to provide a low-velocity pool before water enters the flume. A fish screen running the length of this pool will direct fish away from the flume and to a discharge back to the river. Please refer to the attached Initial Study for greater detail.

9. Surrounding Land Uses and Setting: Briefly describe the project's surroundings:

The proposed project site is located at an elevation of approximately 5,300 feet in rural Nevada County, California, near the unincorporated community of Floriston. The Farad Diversion Dam is part of the uppermost of four hydroelectric projects on the Truckee River. The diversion site is bounded by a canyon wall on the west and Interstate 80 on the east. The site is adjacent and visible to the interstate. The community of Floriston is located east of Interstate 80 and the Union Pacific Railroad tracks. An investigation in 1999 revealed no cultural resources within the project boundaries. The site is vegetated by plant communities that most closely conform to Big Sagebrush Scrub and Montane Black Cottonwood Riparian Forest, along with introduced mesic and xeric plant species. No special-status plants or animals were observed during a field survey of the site. Aquatic species that may occur in the river include Lahontan Cutthroat Trout, Rainbow Trout, German Brown Trout, Mountain Whitefish, Tahoe Mountain Suckers, and Mountain Yellow-Legged Frog. Lahontan Cutthroat Trout are not known to occur presently in this stretch of the river. Suitable habitat does occur for Mountain Yellow-Legged Frog along the river at the proposed dam site.

10. Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement.)

The following agencies are expected to use the EIR as the primary environmental documentation for issuance of the identified permits. The USACE will reference the EIR during preparation of a NEPA Environmental Assessment prior to issuance of Nationwide Permits (wetlands) under Section 404 of the Clean Water Act. The following list is subject to revision based on information obtained during preparation of the EIR and/or comments received during the environmental review process:

- Nevada County – Grading Permit and Building Permit
- California Department of Fish and Game – Streambed Alteration Agreement
- California Regional Water Quality Control Board, Lahontan Region – Waste Discharge Requirements
- California State Water Resources Control Board – Clean Water Act Section 401 Certification
- California Department of Transportation – Caltrans Encroachment Permit (temporary and permanent)
- US Army Corps of Engineers – Clean Water Act Section 404: NWP3 NWP27, and NWP 33
- US Fish and Wildlife Service – Notification required. No permits identified at this time.
- US Forest Service – unknown permitting requirement. The slope above the project site is within the national forest. Some level of authorization is likely required to allow the stabilization actions on that slope.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

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| <input type="checkbox"/> Aesthetics | <input type="checkbox"/> Agriculture Resources | <input type="checkbox"/> Air Quality |
| <input checked="" type="checkbox"/> Biological Resources | <input type="checkbox"/> Cultural Resources | <input checked="" type="checkbox"/> Geology/Soils |
| <input checked="" type="checkbox"/> Hazards and Hazardous Materials | <input checked="" type="checkbox"/> Hydrology/Water Quality | <input type="checkbox"/> Land Use/Planning |
| <input type="checkbox"/> Mineral Resources | <input type="checkbox"/> Noise | <input type="checkbox"/> Population/Housing |
| <input type="checkbox"/> Public Services | <input checked="" type="checkbox"/> Recreation | <input checked="" type="checkbox"/> Transportation/Planning |
| <input type="checkbox"/> Utilities/Service Systems | <input checked="" type="checkbox"/> Mandatory Findings of Significance | |

DETERMINATION (To be completed by the Lead Agency.)

On the basis of this initial evaluation:

- I find the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect on this case because the mitigation measures described on the attached pages have been added to the project. A NEGATIVE DECLARATION will be prepared.
- I find the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- I find that although the proposed project could have a significant effect on the environment, there WIL NOT be a significant effect in this case because all potentially significant effects (a) have been analyzed adequately in an earlier EIR pursuant to applicable standards and (b) have been avoided or mitigated pursuant to that earlier EIR, including revisions or mitigation measures that are imposed upon the proposed project.

Signature

Date

Printed Name

For

Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
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I. AESTHETICS. Would the project:

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| a) Have a substantial adverse effect on a scenic vista?
<i>The project site is within the Sierra Nevada adjacent to Interstate 80. The visual background is dominated by the views of the Truckee River canyon. The project will produce short-term construction disturbance. Unlike the previous weir, the proposed diversion structure has been designed to resemble a natural feature. The face of the structure will be grouted rock. The project includes restoration and revegetation of the stream banks.</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?
<i>See Ia above.</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c) Substantially degrade the existing visual character or quality of the site and its surroundings?
<i>See Ia above.</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?
<i>The proposed structures will have minimal lighting. The vicinity is impacted by lights from the adjoining highway. The project will not introduce a significant lighting impact.</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

II. AGRICULTURAL RESOURCES: In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of conservation as an optional model to use in assessing impacts on agriculture and farmland. Would the project:

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| a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?
<i>The project will not impact agricultural resources.</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?
<i>The project will not impact agricultural resources.</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use?
<i>The project will not impact agricultural resources.</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

III. AIR QUALITY. Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan? <i>The potential air quality impacts of the project are limited to short-term construction generated emissions, notably vehicle emissions and dust. As such, the project does not conflict with or obstruct implementation of the air quality plan.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation? <i>The potential air quality impacts of the project are limited to short-term construction generated emissions, notably vehicle emissions and dust. Construction will be implemented in accordance with the adopted requirements of the Nevada County APCD.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)? <i>Short-term construction is not expected to contribute to any violation of the adopted ambient air quality standards.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Expose sensitive receptors to substantial pollutant concentrations? <i>There are no sensitive receptors in proximity to the project site. The nearest residential structures to the diversion site are located in Floriston, approximately 800 feet west of the site, across both I-80 and the UP railroad tracks</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Create objectionable odors affecting a substantial number of people? <i>There are no sensitive receptors in proximity to the project site. The nearest residential structures to the diversion site are located in Floriston, approximately 800 feet west of the site, across both I-80 and the UP railroad tracks.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

IV. BIOLOGICAL RESOURCES. Would the project:

a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or US Fish and Wildlife Service? <i>The project vicinity is potential habitat for protected plant and wildlife species. Biological survey of the site did not identify the presence of any of those species. The biological impacts of the project will be examined in the EIR.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
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b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service.

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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The project site supports Big Sagebrush Scrub and Montane Black Cottonwood Riparian Woodland. Impacts from construction and bypass flow releases to these communities will be addressed in the EIR.

c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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The project entails in-stream construction and disturbance of the river bank environment. Potential impacts to federally protected wetland resources will be addressed in the EIR.

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

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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The project will include a fish passage structure to allow movement and migration of fish in the Truckee River. The passage structure may not allow for movement of all fish species. Bypass flows below the dam may not provide adequate flows for fish passage and/or adequate flows to maintain water quality for aquatic species. These issues will be addressed in the EIR.

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

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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The project is located within the unincorporated area of Nevada County and will not conflict with local policies or ordinances.

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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The project site is not located with an adopted HCP, NCCP, or other approved local, regional, or state habitat conservation plan areas. The project site is not located with an adopted HCP, NCCP, or other approved local, regional, or state habitat conservation plan areas.

V. CULTURAL RESOURCES. Would the project:

a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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A cultural survey of the diversion site must be completed. Eligibility under the National Register of Historic Places must be determined. This will be addressed in the EIR.

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

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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See V.a) above.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
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c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Fossil resources have not been observed on the project site. Significant fossils are not known to occur in the geologic material that occurs at this location. This will be addressed in the EIR.

d) Disturb any human remains, including those interred outside of formal cemeteries?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Archaeological survey of the site to identify evidence of historic or prehistoric activities must be completed. Human remains are not known to exist on the project site. This will be addressed in the EIR.

VI. GEOLOGY AND SOILS. Would the project:

a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:

i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issues by the State Geologist for the area of based on other substantial evidence of a known fault? Refer to Div. of Mines and Geology Special Publication 42.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Implementation of the project would not expose people to substantial seismic risk. A Richter magnitude 6+ event was recorded in 1966 on an unnamed fault in the vicinity of the Dog Valley fault, approximately five miles west of the project site.

ii. Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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It is probable that the project would be exposed to seismic groundshaking during its life. As described below, such groundshaking could contribute to slope failure above the project.

iii. Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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The project site is at a location beneath an unstable slope. Failure of that slope would likely destroy the structure and block the river. The project includes measures to stabilize the slope, but it is not feasible to eliminate the potential for significant slippage. The project is a diversion structure with no human habitation and minimal water storage. Consequently, exposure to ground failure or liquefaction from above is not considered a significant adverse environmental impact.

iv. Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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The diversion site is located beneath a potentially unstable slope. The structure would be exposed to debris discharge and potential failure of the adjoining slope. However, the project is replacement of a diversion structure and does not introduce human habitation or significant water storage. Consequently, exposure to ground failure or liquefaction from above would not be considered a significant adverse impact.

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
b) Result in substantial soil erosion or the loss of topsoil? <i>The project will entail construction within the riparian and stream zone. Without mitigation, significant erosion and sedimentation impacts could occur. This issue will be addressed in the EIR.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse? <i>The diversion site is located beneath an unstable slope. Failure of that slope could destroy the structure, obstruct the river, and/or damage the Interstate. The project includes measures to reduce debris load and stabilize the slope, but it is not feasible to eliminate the potential for future slope failure. Construction and blasting could contribute to slope failure. This issue will be addressed in the EIR.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property? <i>The proposed structure will be anchored to bedrock.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water? <i>The project would not produce waste water.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VII. HAZARDS AND HAZARDOUS MATERIALS. Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials? <i>Except for construction materials, the project will not require the transport or use of hazardous materials. Typical construction-related materials, such as fuel, oil, grease will be used during construction. Grouting material is highly basic and an acid will be required to neutralize any water entering the construction zone. The project will use these materials in accordance with adopted safety practices. An emergency response and spill containment plan is proposed.</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? <i>See VII.a) above.</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? <i>There is no school within one-quarter mile of the project site.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
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d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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The site is not on a list of hazardous materials sites.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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The project site is not within an airport land use plan or within two miles of an airport.

f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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The project site is not in the vicinity of a private airstrip.

g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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The project would not interfere with an adopted emergency response plan or emergency evacuation plan.

h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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The project structure would not be inhabited and is located in an area with minimal forest cover. As such, the site would not be exposed to significant wildland fire risk.

VIII. HYDROLOGY AND WATER QUALITY. Would the project:

a) Violate any water quality standards or waste discharge requirements?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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The project will divert water from the Truckee River which may impact water quality downstream of the dam in the bypass reach. The project will require construction within the Truckee River, potentially violating Lahontan RWQCB standards. These issues will be addressed in the EIR.

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
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b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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The project would not use groundwater.

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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The project will require short-term diversion of the Truckee River around the diversion site. This activity could contribute to elevated erosion. This issue will be addressed in the EIR.

d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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The project would not alter the drainage and would not contribute to flooding.

e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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The project does not include or require a storm water drainage system.

f) Otherwise substantially degrade water quality?

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Aside from construction impacts (identified in VIIIa above), the project will not contribute to water quality degradation.

g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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The project does not include housing.

h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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The project is a diversion structure that would impede and redirect flows. However, the design and location of the structure would not contribute to flooding.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
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i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?

The project is a diversion structure that would impede and redirect flows. The structure is designed with a minimal amount of drop (2-3 feet) and would not pose a significant flood catastrophe in the event of failure.

j) Inundation by seiche, tsunami, or mudflow?

The project would not pose significant exposure to seiche, tsunami, or mudflow.

IX. LAND USE AND PLANNING. Would the project:

a) Physically divide an established community?

The project is not within an established community.

b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?

The project site is located in the unincorporated area of Nevada County and does not conflict with the adopted General Plan and zoning.

c) Conflict with any applicable habitat conservation plan or natural community conservation plan?

The project site is not located with an adopted HCP, NCCP, or other approved local, regional, or state habitat conservation plan areas.

X. MINERAL RESOURCES. Would the project:

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

The project site does not support mineral resources.

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

The project site does not support mineral resources.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
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XI. NOISE. Would the project result in:

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| a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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Construction would be expected to generate short-term elevation of noise levels. However, sounds would be typical of those normally associated with construction activities. Blasting could produce instantaneous noise levels in excess of 100dB at 50 feet, but would not violate community noise standards in the rural area. The closest residential receptor is located approximately 800 feet from the project site.

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| b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Construction may require blasting, producing sudden and instantaneous vibration events. However, there are no sensitive receptors in the project vicinity.

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| c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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The project would not produce a permanent increase in ambient noise levels.

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|--|--------------------------|--------------------------|-------------------------------------|--------------------------|
| d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Project construction would produce short-term noise in excess of existing conditions. However, there are no nearby sensitive receptors that would be exposed to unacceptable noise levels.

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|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|

The project site is not located within an airport land use plan or within two miles of a public airport.

- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|

The project is not in the vicinity of a private airstrip.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
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XII. POPULATION AND HOUSING. Would the project:

- | | | | | |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|

The project would not induce population growth.

- | | | | | |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|

The project will not displace any housing.

- | | | | | |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|

The project will not displace any housing.

XIII. PUBLIC SERVICES

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

Fire protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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The project will not increase the need for fire protection.

Police protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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The project will not substantially increase the need for law enforcement services. It is possible that incidental requests for law enforcement could be required for such things as vandalism, trespass, etc. However, this would not be any different than that which exists at other diversions in the area or existed at the previous diversion that the proposed structure would replace.

Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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The project would not impact schools.

Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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The project would not impact parks.

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
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Other public facilities?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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The project will not adversely impact other public facilities, and through the generation of hydroelectric power would benefit local utilities services.

XIV. RECREATION

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

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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The project would not increase the use of existing parks.

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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The proposed diversion will be a barrier to navigation. However, a design is being proposed that will allow the downstream passage of kayaks, canoes, and rafts.

XV. TRANSPORTATION/TRAFFIC. Would the project:

a) Cause an increase in traffic which is substantial in relation to the existing traffic load and capacity of the street system (i.e., result in a substantial increase in either the number of vehicle trips, the volume to capacity ratio on roads, or congestion at intersections)?

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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The project would not result in any substantial long term increase in traffic. At most there will be a short-term increase in traffic due to construction vehicles.

b) Exceed, either individually or cumulatively, a level of service standard established by the county congestion management agency for designated roads or highways?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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The project would not result in any long term increase in traffic and would not exceed any level of service standard. At the most, there will be a short-term impact on traffic caused by construction vehicles.

c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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The project would not affect air traffic patterns.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
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D) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

The project would require construction access to/from Interstate 80. Such access would be in accordance with Caltrans requirements for safe ingress/egress. This issue will be addressed in the EIR.

e) Result in inadequate emergency access?

The project would not introduce residents or reasons to provide increased emergency access. The project includes development of maintenance access that would provide additional access to the river that could be used by emergency vehicles.

f) Result in inadequate parking capacity?

The project does not require nor propose permanent parking.

g) Conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks)?

The project is neither a residential or employment generating land use, and there is no need for alternative transportation facilities.

XVI. UTILITIES AND SERVICE SYSTEMS. Would the project:

a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?

The project would not generate wastewater.

b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

The project would not generate wastewater.

c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

The project does not require storm water drainage facilities.

d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?

The project would not require treated water service.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
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- e) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

The project would not require wastewater treatment services.

- f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

With the exception of incidental debris during construction, the project would not generate solid waste and would not impact a landfill.

- g) Comply with federal, state, and local statutes and regulations related to solid waste?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

With the exception of incidental debris generated during construction, the project would not generate solid waste.

XVII. MANDATORY FINDINGS OF SIGNIFICANCE

- a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?
- | | | | |
|-------------------------------------|--------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|-------------------------------------|--------------------------|--------------------------|--------------------------|

The project will include a fish passage structure to allow movement and migration of fish in the Truckee River. The structure may not allow for movement of all fish species. Bypass flows below the dam may not provide adequate flows for fish passage and/or adequate flows to maintain water quality for aquatic species See VII.a; IV.a, b, c, d; VIII.a, c

- b) Does the project have impacts that are individually limited, but cumulatively considerable? ("cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?
- | | | | |
|-------------------------------------|--------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|-------------------------------------|--------------------------|--------------------------|--------------------------|

In light of other projects on the river, the construction of this dam and diversion of water may have potential significant impacts. The California Department of Transportation is proposing to rehabilitate a section of highway 80 adjacent to the Farad Dam. This will include replacement of the Floristan Bridge. There will be temporary impact to 1.2 acres of water below the bridge. This issue will be addressed in the EIR.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
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- c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

The project will not expose people to substantial flooding, noise or air quality impacts, or health and safety risks. Accordingly, the project is not expected to cause adverse impacts on humans.

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