Appendix B

Lake Fordyce Dam Seepage Mitigation Project Mitigation Monitoring and Reporting Program

The State Water Resources Control Board (State Water Board) is the lead agency under the California Environmental Quality Act (CEQA) for the Fordyce Dam Seepage Mitigation Project (Proposed Project). In conjunction with approval of this Proposed Project, the State Water Board adopts this Mitigation Monitoring and Reporting Program (MMRP) for implementation of mitigation measures (MMs) for the Proposed Project to comply with Public Resources Code section 21081.6, subdivision (a), and State CEQA Guidelines sections 15091, subdivision (d), and 15097.

PURPOSE

It is important that significant impacts from the Proposed Project are mitigated to the maximum extent feasible. The purpose of an MMRP is to ensure compliance and implementation of MMs; this MMRP shall be used as a working guide for implementation, monitoring, and reporting for the Proposed Project MMs.

ENFORCEMENT AND COMPLIANCE

The State Water Board is responsible for enforcing this MMRP. The Project Applicant is responsible for the successful implementation of and compliance with the MMs identified in this MMRP. This includes all field personnel and contractors working for the Applicant.

MONITORING

The State Water Board staff may delegate duties and responsibilities for monitoring to other environmental monitors or consultants as necessary. Some monitoring responsibilities may be assumed by other agencies, such as affected jurisdictions. The State Water Board and/or its designee shall ensure that qualified environmental monitors are assigned to the Proposed Project.

Environmental Monitors. To ensure implementation and success of the MMs, an environmental monitor must be on-site during all Proposed Project activities that have the potential to create significant environmental impacts or impacts for which mitigation is required. Along with State Water Board staff, the environmental monitor(s) are responsible for:

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 Ensuring that the Applicant has obtained all applicable agency reviews and approvals;

- Coordinating with the Applicant to integrate the mitigation monitoring procedures during Project implementation; and
- Ensuring that the MMRP is followed.

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The environmental monitor shall immediately report any deviation from the procedures identified in this MMRP to State Water Board staff or its designee. State Water Board staff or its designee shall approve any deviation and its correction.

Workforce Personnel. Implementation of the MMRP requires the full cooperation of Proposed Project personnel and supervisors. Many of the MMs require action from site supervisors and their crews. The following actions shall be taken to ensure successful implementation.

 Relevant mitigation procedures shall be written into contracts between the Applicant and any contractors.

General Reporting Procedures. A monitoring record form shall be submitted to the Applicant, and once the Proposed Project is complete, a compilation of all the logs shall be submitted to the State Water Board staff. State Water Board staff or its designated environmental monitor shall develop a checklist to track all procedures required for each MM and shall ensure that the timing specified for the procedures is followed. The environmental monitor shall note any issues that may occur and take appropriate action to resolve them.

Public Access to Records. Records and reports are open to the public and would be provided upon request.

MITIGATION MONITORING TABLE

This section presents the mitigation monitoring table (Table B-1) for the following environmental disciplines: Aesthetics, Air Quality, Biological Resources, Cultural Resources, Geology and Soils, Hazards and Hazardous Materials, Hydrology and Water Quality, Tribal Cultural Resources, and Wildfire. All other environmental disciplines were found to have less than significant or no impacts and are, therefore, not included below. The table lists the following information by column:

- Potential Impact;
- Mitigation Measure (full text of the measure);
- Location (where impact occurs and MM should be applied);
- Monitoring/Reporting Action (action to be taken by monitor or lead agency);
- Timing (before, during, or after construction; during operation, etc.);
- Responsible Party; and
- Effectiveness Criteria (how the agency can know if the measure is effective).

Table B-1. Mitigation Monitoring and Reporting Program

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria			
Aesthetics									
Create a new	MM AES-1: Minimize Nighttime	Fordyce	Observe	Throughout	Applicant and	Off-site light			
source of	Lighting Effects. Night-lighting during	Dam Work	nighttime	construction	State Water	spillage			
substantial light	project construction will be shielded and	Area	lighting		Board	minimized			
or glare	directed downward, toward the work		positioning for						
	area, to minimize light trespass to		compliance						
	adjacent areas.								

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
1 Otential impact	witigation measure (wild)			Tilling	raity	Officeria
criteria pollutant increases	MM AQ-1: Mitigations for Use during Project Design and Construction. i) Alternatives to open burning of vegetative material will be used unless otherwise deemed infeasible by the District. Among suitable alternatives are chipping, mulching, or conversion to biomass fuel. ii) Temporary traffic control shall be provided during all phases of the	Air Quality Fordyce Dam Work Area	Observe during construction for compliance		Applicant and State Water Board	Reduction in construction-related emissions is achieved
	provided during all phases of the construction to improve traffic flow as deemed appropriate by local transportation agencies and/or Caltrans. iii) Construction activities shall be scheduled to direct traffic flow to offpeak hours as much as practicable					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	MM AQ-2: Recommended Dust	Fordyce	Observe during	Throughout	Applicant and	Reduction in
	Control Plan Conditions.	Dam Work	construction for	construction	State Water	fugitive dust
	 i) The applicant would be responsible for ensuring that all adequate dust control measures are implemented in a timely manner during all phases of project development and construction. ii) All material excavated, stockpiled, or graded would be sufficiently watered, treated, or covered to prevent fugitive dust from leaving the property boundaries and causing a public nuisance or a violation of an ambient air standard. Watering should occur at least twice daily, with complete site coverage. iii) All areas with vehicle traffic would be watered or have dust palliative applied as necessary for regular stabilization of dust emissions. 	Area	compliance		Board	generation is achieved

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	iv) All on-site vehicle traffic would be limited to a speed of 15 mph on unpaved roads.					
	v) All land clearing, grading, earth moving, or excavation activities on a project would be suspended as necessary to prevent excessive windblown dust when winds are expected to exceed 20 mph.					
	vi) All inactive portions of the development site would be covered, seeded, or watered until a suitable cover is established. Alternatively, the applicant may apply County-approved nontoxic soil stabilizers (according to manufacturers' specifications) to all inactive construction areas (previously graded areas which remain inactive for 96 hours) in accordance with the local grading ordinance.					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	vii) All material transported off-site would be either sufficiently watered or securely covered to prevent public nuisance, and there must be a minimum of 6 inches of freeboard in the bed of the transport vehicle. viii) Paved streets adjacent to the project would be swept or washed at the end of each day, or more frequently if necessary, to remove excessive or visibly raised accumulations of dirt and/or mud which may have resulted from activities at the project site. ix) Prior to the completion of construction activities, the applicant would re-establish ground cover on the site through seeding and watering in accordance with the local grading ordinance.					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	Bio	logical Reso	urces			
Potential	MM BIO-1: Avoid Impacts on	Fordyce	Project	Prior to	Applicant and	Avoid special-
disturbance/	Special-Status Plants. A qualified	Dam Work	schedule/	construction	State Water	status plants
impacts to any	botanist will conduct focused botanical	Area	Document site		Board	by scheduling
species	surveys in the areas at seven locations,		visit/Review			pre-
identified as a	including three culvert extensions and		and confirm			construction
candidate,	four drainage dips that were not covered		Survey			surveys
sensitive, or	by 2019 surveys during the appropriate					Stockpile top
special status	phenotypic period. If any special-status					6 inches/
species	plant species are identified during these					collect seeds
	surveys, the following measures will be					of applicable
	implemented:					species or set
	a) If ground disturbance is planned to					up flagging if
	occur in areas documented as					present
	containing populations of special-					
	status species, the top 6 inches of					
	soil in these areas will be stockpiled					
	during construction and replaced					
	following construction.					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	 b) If it is not feasible to retain the top 6 inches of soil in areas where sensitive plant species will be affected, then qualified biologists will collect seeds of the applicable sensitive species during the appropriate blooming season, for reseeding temporarily affected areas as part of site restoration. c) If feasible, work activities in habitats occupied by special-status plants will occur before germination or following special-status plant species seed production, to allow maximum seed set and avoidance of direct mortality. Work in habitats occupied by special-status plants will not occur from germination through seed set, based on the special-status species present in the project area. 					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	d) In the event that construction cannot avoid populations of special-status plant species during the growing/ blooming season, special-status plant populations will be flagged before construction. The timing of the flagging efforts will correspond with the blooming period when the species is most conspicuous and easily recognizable.					
	·	Fordyce Dam Work Area	Incorporation of Best Management Practices	During construction	Applicant and State Water Board	Impacts to species are further avoided with incorporation of Best Management Practices

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	 b) Vehicular speeds will be limited to 15 miles per hour on unpaved roads. c) Control measures for erosion, excessive sedimentation, and sources of turbidity will be implemented and in place prior to the commencement of, during, and after any ground clearing activities, excavation, or any other Project activities that could result in erosion or sediment discharges to surface water. d) Caution will be used when handling and or storing chemicals (e.g., fuel, hydraulic fluid) near waterways. The Proposed Project will comply with any and all applicable laws and regulations related to the handling and storage of chemicals. Appropriate materials will be on site to prevent and manage spills. 					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	e) When not in use, equipment will be stored in upland areas outside the boundaries of waterways. f) All construction equipment will be inspected for leaks before being brought on site. All equipment will be well maintained and inspected daily while on site to prevent leaks of fuels, lubricants, or other fluids into waters of the United States or waters of the state. Stationary equipment (e.g., generators) within 100 feet of aquatic habitat will be parked over secondary containment. g) Service and refueling procedures will be conducted in a designated area, where no potential exists for fuel spills to seep or wash into waterways.					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	 h) Stockpiles will be located outside of riparian habitat and protected with appropriate stock pile management BMPs. If more than 0.25 inch of rain is forecasted during construction, all spoil piles will be covered with plastic and surrounded with sediment control technologies or berms to prevent sediment run-off. i) No pets, hunting, open fires (such as barbecues), or firearms will be permitted in the work area. j) During Proposed Project construction, all trash that may attract predators will be properly contained in covered garbage receptacles and removed from the project area daily. After construction, all trash and construction debris will be removed from the project area. 					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	MM BIO-3: Implement Standard	Fordyce	Document	Prior to	Applicant and	Avoid impacts
	Avoidance and Minimization	Dam Work	environmental	construction/	State Water	by scheduling
	Measures for Wildlife. The following	Area	training	During	Board	environmental
	avoidance and minimization measures		program/	construction		training
	(AMMs) will be implemented:		Incorporation of			program
	a) A qualified biologist will develop an		Avoidance and			Impacts to
	environmental training program and		Minimization			wildlife are
	present this training to all		Measures			further
	construction workers before they					avoided with
	begin work on the Proposed Project.					incorporation
	The training will include a description					of Avoidance
	of special-species with potential to					and
	occur, life history and habitat					Minimization
	associations, general measures that					Measures
	are being implemented to conserve					
	the species as they relate to the					
	Proposed Project; the terms and					
	conditions of project permits,					
	approvals, and certifications;					
	penalties for non-compliance; and					
	the boundaries of the work area and					
	project area. A handout will be					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	provided to all participants, and at least one copy of this information will be kept on site, in the job packet, during construction activities. Upon completion of the training, attendees will sign a form stating that they have participated in the training and understand the AMMs					
	b) All construction workers will check visually for wildlife beneath vehicles and construction equipment before moving or operating them.					
	c) If animals are observed in the work area or the immediate vicinity, work will stop until the animal leaves the area of its own volition. The animal will not be harried or harassed into leaving the area. If the animal does not leave of its own accord, the PG&E biologist will be contacted, who in turn will report such observations to the appropriate					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	agency. If this involves a listed or sensitive species, PG&E, in consultation with the appropriate agencies, will develop a plan to relocate that animal. d) Grading and vegetation removal along roads and construction work areas will be minimized to the extent feasible. PG&E will trim, clear, or remove vegetation only as necessary to establish the access routes and allow equipment use. e) Only tightly woven netting or similar material will be used for all geosynthetic erosion control materials, such as coir rolls and geotextiles. No plastic monofilament matting will be used.					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	MM BIO-4: Implement Specific	Fordyce	Document site	Prior to	Applicant and	Avoid Sierra
	Avoidance and Minimization	Dam Work	visit/	construction/	State Water	Nevada
	Measures for Sierra Nevada Yellow-	Area	Incorporation of	During	Board	yellow-legged
	legged Frog. The following		Avoidance and	construction		frog by
	modifications will be implemented within		Minimization			scheduling
	suitable habitat for Sierra Nevada		Measures			pre-
	yellow-legged frog habitat specifically to					construction
	avoid or minimize potential effects on					surveys
	Sierra Nevada yellow-legged frog:					Impacts to
	a) A qualified biologist shall conduct					Sierra Nevada
	preconstruction surveys at work sites					yellow-legged
	that contain suitable aquatic habitat					frog are
	for the frog (e.g., staging areas or					further
	road work within or adjacent to					avoided with
	streams). Surveys shall be					incorporation
	conducted within 24 hours prior to					of Avoidance
	the start of work at that location. If					and
	work will occur at a location over					Minimization
	multiple years, the work site shall be					Measures
	resurveyed each year prior to					
	resuming construction.					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	 b) A USFWS-approved monitor shall be present during roadwork activities (i.e., culvert modifications or construction of low water crossings) with suitable frog habitat when water is present in the work site. c) Staging areas along Magonigal Road will not be used for helicopter operations. Measures will be designated in the Stormwater Pollution Prevention Plan (SWPPP) at these areas to limit sediment of construction materials from cascading downslope to protect known occurrences of the frog in Rattlesnake Creek. d) If a frog is encountered, the general procedure is to leave the animal alone. If a frog is encountered in an active area of the Proposed Project, the first priority is to stop all activities in the surrounding area that may 					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	e) All excavations will be inspected before being backfilled or graded, to ensure that no listed species are trapped within them.					
	f) All open ends of pipes will be covered at the end of each work day. If this is not possible, all ends of pipes will be elevated to a minimum of 3 feet above the ground.					
	g) All excavations will be inspected before being backfilled or graded, to ensure that no listed species are trapped within them.					
	h) All open ends of pipes will be covered at the end of each work day. If this is not possible, all ends of pipes will be elevated to a minimum of 3 feet above the ground.					

			Monitoring/ Reporting		Responsible	Effectiveness
Potential Impact	Mitigation Measure (MM)	Location	Action	Timing	Party	Criteria
	MM BIO 5: Implement Specific	Fordyce	Document site	Prior to	Applicant and	Avoid Nesting
	Measures for Nesting Birds. A	Dam Work	visit/	construction/	State Water	Birds by
	qualified biologist will implement a	Area	Incorporation of	During	Board	scheduling
	nesting bird management plan to ensure		mitigation	construction		pre-
	that construction, including blasting and		strategies			construction
	helicopter use will not result in					surveys
	significant impacts to nesting birds or					Impacts to
	nest abandonment by sensitive or					Nesting Birds
	special status bird species. The nesting					are further
	bird management plan will include the					avoided with
	following components:					incorporation
	a) Complete preconstruction surveys					of mitigation
	for active nests within a timeframe					strategies
	prior to construction that is suitable					
	for detection of recently established					
	nests and no more than 14 days					
	prior to activity commencement					
	within pre-determined buffer zones,					
	or if there is a lapse in construction					
	activity in a buffer zone of more than					
	14 days. The surveys will determine					
	nesting bird presence and identify					

			Monitoring/ Reporting		•	Effectiveness
Potential Impact	Mitigation Measure (MM)	Location	Action	Timing	Party	Criteria
	the need to implement or adjust					
	construction buffers. Where suitable					
	nesting habitat is present, the buffer					
	to survey for bald eagle will be at					
	least ½ mile for project activities					
	including blasting locations and					
	helicopter landing zones or zones					
	where helicopter operations will be					
	below 1,000 feet above the tree					
	canopy Where nesting suitable					
	habitat is present, the buffer to					
	survey for active nests of California					
	spotted owl and northern goshawk					
	will be at least 0.25 mile for project					
	activities including blasting locations					
	and helicopter landing zones or					
	zones where helicopter operations					
	will be below 1,000 feet above the					
	tree. The surveys will:					
	 Document habitat types present at the site that are suitable for nesting birds. 					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	Document nesting birds that are present on or adjacent to the site. Nesting pairs or nests will be recorded using a GPS unit to record the location of the observed nest, the species, and the estimated distance from the planned activities. All nesting birds encountered during the surveys will be recorded					
	 Assign and document the appropriate buffers distance based on activity types. 					
	 Provide recommendations and guidelines for nesting avoidance and minimization measures or nesting deterrence, including review of helicopter flight paths prior to each construction season. Recommendations may include alterations to helicopter flight paths based on observed raptors, the use of other rock removal activities during roadway improvements if 					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	nests are found to be within the appropriate buffers of planned blasting areas, the need for additional nest surveys to discover any nests established during the construction season, and a biological monitor to monitor nesting behaviors if active nests are found within the planned buffer areas. • Buffer distances will be provided to the PG&E Environmental Lead and communicated to the foreman. b) PG&E will apply buffers and other					
	applicable nesting bird avoidance and minimization measures around active nests based on the biologist's recommendations to avoid and minimize impacts to birds that nest or may nest in the vicinity of project activities. If the buffer will constrain a planned construction activity, the biologist will consider the following to					

			Monitoring/ Reporting		_	Effectiveness
Potential Impact	Mitigation Measure (MM)	Location	Action	Timing	Party	Criteria
	determine whether a "reduced					
	buffer" is appropriate:					
	 Activity disturbance type 					
	 Existing conditions 					
	 Nest concealment 					
	 The natural history, 					
	behavior, and nest					
	chronology of the species					
	 Habituation 					
	 Environmental conditions 					
	c) The biologist will ensure an					
	appropriate buffer for high intensity					
	activities before such activities					
	occur. High intensity activities					
	include blasting and helicopter					
	operations. The appropriate buffer for these activities will be developed					
	by the biologist on a case-by-case					
	basis.					
	d) A biological monitor shall be present					
	for activities with "reduced					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	buffers." The biological monitor will					
	implement the established buffer,					
	monitor adjacent construction					
	activity, and document active nest					
	status. The biological monitor will					
	observe nesting behavior to					
	determine whether reduced buffers					
	need to be increased. The potential					
	effects of disturbance will be					
	considered by the biological monitor					
	and the biologist, and buffers will be					
	adjusted as necessary. The					
	biological monitor will be responsible					
	for determining when a nest is no					
	longer active based on nest					
	observations. Monitoring will					
	commence with activity onset and if					
	no behavioral response to the					
	activity is observed (agitation,					
	extended non-attendance) then					
	periodic monitoring may be					
	performed					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	MM BIO-6: Implement Specific	Fordyce	Document site	Prior to	Applicant and	Avoid special-
	 Avoidance and Minimization Measures for Special-status Bat Species. If feasible, work should be scheduled between September 1 and April 30 to avoid the bat maternity season. If work is conducted during the bat maternity season (May 1 to August 31), a pre-construction survey for special-status bat (i.e., Townsend's big-eared bat, pallid bat, and fringed myotis) habitat shall be conducted by a qualified biologist (e.g., who is experienced in the identification of special-status bat habitat) in advance of any rock or tree removal, to identify signs of potential bat use (e.g., large cavities or crevices in rocks or trees, basal hollows in large trees or snags, spaces under loose/exfoliating tree bark, or deep bark fissures). 	Area	visit/ Incorporation of avoidance and minimization measures	construction/ During construction	State Water Board	status bats by scheduling pre- construction surveys Impacts to special-status bats are further avoided with avoidance and minimization measures

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	3. Should potential roosting habitat or active bat roosts be found in trees to be removed, the following measures shall be implemented:					
	a. Tree removal shall occur when bats are active (approximately April 1 to November 1) and outside of months of winter torpor (approximately October 31 to March 31), to the extent feasible.					
	b. A qualified biologist shall be present during tree removal if it has been determined during the pre-construction survey that bat roosts or habitat are present. Trees shall be disturbed only when no rain is occurring or is not forecast to occur for 3 days and when daytime temperatures are at least 50 degrees Fahrenheit (°F).					
	4. Removal of trees containing or					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	suspected to contain roost sites shall be done under supervision of a qualified biologist.					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
Totential impact		Iltural Resou		I IIIIIII	1 arty	Officeria
					T T	1
Disturbance of		Fordyce		Prior to	Applicant and	Any known
known		Dam Work	visit/Document	construction	State Water	archaeological
archeological	Resources. Before the start of	Area	any findings of		Board	resources are
resources	construction, known archaeological sites		known			flagged and
	in the APE/API that are eligible for		archaeological			avoided
	listing on the National Register or		sires			during
	California Register or are considered					construction
	eligible for the purposes of this project					
	(P-29-000690/FS # 05175500001 and					
	P-29-004042/FS # 05175300937) will					
	be flagged as avoidance areas during					
	construction. These sites will be subject					
	to archaeological spot monitoring, to					
	ensure that no impacts occur					
	inadvertently because of implementation					
	of the Proposed Project.					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
Disturbance of	MM CUL-2: Procedures for	Fordyce	Inform Project	Throughout	Applicant and	Any
archaeological	Unanticipated Discovery of	Dam Work	contractors of	construction	State Water	unanticipated
resources	Archaeological Resources. In the	Area	archaeological		Board	cultural
	event that deposits of prehistoric or		resource			resource finds
	historic-era archaeological resources		notification			are avoided
	are encountered during Proposed		procedure/			until evaluated
	Project construction activities, all work		Document any			and mitigated
	within approximately 100 feet around		reported finds			
	the discovery will be stopped, and a					
	qualified archeologist meeting federal					
	criteria (36 C.F.R. § 61) will be					
	contacted to assess the deposit(s) and					
	make recommendations. This work will					
	be conducted in accordance with					
	36 Code of Federal Regulations section					
	800.13 (Post-Review Discoveries) and					
	CEQA Guidelines (Cal. Code Regs.,					
	tit. 14, § 15064.5). PG&E will also notify					
	the tribes who requested consultation or					
	to be notified of unanticipated					
	discoveries in the event that prehistoric					
	archaeological resources are					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	encountered. These tribes are the					
	Colfax-Todd Valley Consolidated Tribe,					
	United Auburn Indian Community of the					
	Auburn Rancheria, and Washoe Tribe of					
	California and Nevada (see					
	Section 3.19 for summary of tribal					
	consultation).					
	During the project, it is anticipated that					
	debris associated with former					
	maintenance and construction projects					
	may be encountered near the toe of the					
	dam. Debris may include concrete					
	rubble, scraps of metal, and other					
	industrial items such as cables and					
	machinery as well as trash that has					
	deposited from the surface of the lake.					
	Said items will be treated as isolates					
	and will warrant no further management					
	considerations given their lack of both					
	provenience and the ability to yield data.					
	However, in the event that features,					
	such as stacked rock platforms or intact					
	railroads are encountered, the					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	unanticipated discovery protocol detailed herein must be followed.					
	If deposits of prehistoric or historic archeological materials cannot be avoided by Proposed Project activities, PG&E will retain a qualified archaeologist to evaluate the potential historic significance of the resource(s). The resource will be determined whether it is: (1) a historical resource as defined in CEQA Guidelines ((Cal. Code Regs., tit. 14, § 15064.5) and thus eligible for listing in the California Register of Historical Resources (CRHR); (2) a unique archaeological resource as defined in the Public Resources Code (Pub. Resources Code, § 21083.2, subd. (g)); (3) a potential tribal cultural resource (TCR) as defined in the Public Resources Code (Pub. Resources Code, § 21074, subd.(a)) and/or (4) a historic property as defined in the Code of Federal					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
Potential impact	, ,	Location	Action	riiiiig	Party	Criteria
	Regulations (36 C.F.R. § 800.16, subd.					
	(I)(1)) and thus eligible for listing in the National Register of Historic Places					
	(NRHP). Tribes will also be consulted					
	to determine the significance of a					
	resource.					
	If the deposits are determined to be					
	non-significant by a qualified					
	archaeologist and are determined to not					
	be TCRs through consultation with the					
	tribe(s), avoidance will not be					
	necessary. If the deposits are					
	determined to be potentially significant					
	by the qualified archaeologist or are					
	TCRs, the resources will be avoided if					
	feasible. In-place preservation of the					
	archaeological resources will be the					
	preferred manner of mitigating potential					
	impacts, because this will maintain the					
	relationship between the resource and					
	the archaeological context. In-place					
	preservation also will reduce the					
	potential for conflicts with the religious					

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Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	or cultural values of groups associated					
	with the resource. Other mitigation					
	options will include the full or partial					
	removal and curation of the resource.					
	If avoidance is not feasible, Proposed					
	Project impacts will be mitigated in					
	accordance with the recommendations of					
	the archaeologist, in coordination with					
	PG&E and CEQA Guidelines (Cal. Code					
	Regs., tit. 14, § 15126.4, subd.					
	(b)(3)(C)), which requires implementation					
	of a data recovery plan, and with the					
	consulting tribes, as appropriate. The					
	data recovery plan will include provisions					
	for adequately recovering all scientifically					
	consequential information from and					
	about any discovered archaeological					
	materials, and will include					
	recommendations for the treatment of					
	these resources.					
	PG&E will confirm that a qualified					
	archeologist will be retained for					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	preparation and implementation of the					
	data recovery plan, which will be					
	conducted before any additional earth-					
	moving activities in the area of the					
	resource. The recovery plan will be					
	submitted to PG&E and the NCIC. After					
	the recovery plan is reviewed and					
	approved by PG&E and any appropriate					
	resource recovery is completed, project					
	construction activity in the area of the					
	find may resume. A data recovery plan					
	will not be required for resources that					
	have been deemed by the NCIC as					
	adequately recorded and recovered by					
	studies previously complete					

			Monitoring/ Reporting		Responsible	Effectiveness
Potential Impact	Mitigation Measure (MM)	Location	Action	Timing	Party	Criteria
Disturbance of cultural resources	the start of construction, all construction	Area		Prior to construction	Applicant and State Water Board	Avoid impacts by scheduling worker training
	procedures to follow if they discover cultural resources during project-related work.					
Disturbance of human remains	MM CUL-4: Treatment of Human Remains. Discovery of human remains on federal lands will be subject to the Native American Grave Protection and Repatriation Act (NAGPRA). In accordance with the NAGPRA, if human remains are uncovered during ground- disturbing activities, all activities within 100 feet will be halted and the PG&E Cultural Resource Specialist will notify the appropriate federal agency by	Fordyce Dam Work Area	Inform Project contractors of human remains notification procedure/ Document any reported finds	Throughout construction	Applicant and State Water Board	Any unanticipated human remains are avoided until evaluated and mitigated

Appendix B
Mitigation Monitoring and Reporting Program
Lake Fordyce Dam Seepage Mitigation Project

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
-	telephone within 24 hours, followed					
	within 3 days by written confirmation.					
	Human remains will not be excavated or					
	removed unless a permit is issued					
	under the Archaeological Resources					
	Protection Act and after consultation					
	with appropriate Native American					
	representatives. The activity that					
	resulted in the inadvertent discovery					
	may resume 30 days after certification					
	by the notified federal agency of receipt					
	of the written confirmation of notification					
	of inadvertent discovery. The activity					
	may also resume at any time that a					
	written, binding agreement is executed					
	between the federal agency and the					
	affiliated Indian tribe(s) that adopt a					
	recovery plan for the excavation or					
	removal of the human remains, funerary					
	objects, sacred objects, or objects of					
	cultural patrimony.					
	Discovery of human remains on PG&E					
	or private lands must comply with the					

			Monitoring/ Reporting		Responsible	Effectiveness
Potential Impact	Mitigation Measure (MM)	Location	Action	Timing	Party	Criteria
	Health and Safety Code (Health & Saf.					
	Code, § 7050.5, subd. (b)) and Public					
	Resources Code (Pub. Resources					
	Code, § 5097.98). In accordance with					
	these state laws, if human remains are					
	uncovered during ground-disturbing					
	activities, all such activities within					
	100 feet will be halted, and the PG&E					
	Cultural Resource Specialist and the					
	appropriate county Coroner will be					
	contacted immediately. The Coroner is					
	required to examine all discoveries of					
	human remains within two working days					
	of receiving notice of a discovery on					
	private or state lands (Health & Saf.					
	Code, § 7050.5, subd. (b)). If the					
	Coroner determines that the remains					
	are of Native American origin, he or she					
	must contact the California Native					
	American Heritage Commission (NAHC)					
	by phone within 24 hours of making that					
	determination (Health & Saf. Code,					
	§ 7050, subd. (c)). The County or its					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	appointed representative and the professional archaeologist will consult with a Most Likely Descendent, determined by the NAHC, regarding the removal or preservation and avoidance of the remains					
	G	eology and S	oils			
Disturbance of paleontological resources	MM GEO-1: Discovery of Paleontological Resources. If any paleontological resources are uncovered during Proposed Project construction activities, all work within 20 feet of the discovery will be halted or diverted to other areas on the site and PG&E's Cultural Resources Specialist will be notified immediately. A qualified paleontologist will be retained to evaluate the finds and recommend appropriate measures for the unanticipated discovered paleontological resources.	Fordyce Dam Work Area	Retain paleontologist/ Document any reported finds		Applicant and State Water Board	Paleontologic al resources are avoided or appropriately mitigated (e.g., collected and curated)

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	Hazards a	and Hazardou	ıs Materials			
Hazards from	MM HAZ-1: Unanticipated	Fordyce	Document any	During	Applicant and	Unanticipated
unanticipated	Contamination. During ground-	Dam Work	reported finds	ground-	State Water	contamination
contamination	disturbing activities throughout the project area, the contractor(s) will inspect the exposed soil and associated dewatering effluent for obvious signs of contamination from hazardous materials such as odors, stains, or other suspect materials. Should signs of unanticipated contamination be encountered, work will be suspended, the area will be secured and the Resident Engineer and PG&E manager(s) will be notified. An investigation will be designed and performed to verify the presence and extent of hazardous material contamination at the site, and a site-specific soil management plan will be prepared and implemented.			disturbing activities	Board	avoided or appropriately mitigated

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	In addition to visual observations, composite samples will be collected from the excavated debris-laden fill and analyzed for mercury to characterize the spoils material prior to spreading on the lake bottom. Spoils characterization will be conducted by analyzing and a composite sample for every 2,000 cubic yards of soil that would be spread on the bottom. Any soils deemed hazardous would be hauled offsite for disposal at an appropriately permitted commercial facility.					
Hazards from wildland fire	Implement the following measures (see below): MM FIRE-1: Wildland Fire Prevention.					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	Hydrol	ogy and Wate	er Quality			
Substantially degrade water quality	MM HYD-1: Monitor and Implement Adaptive Management Strategy. A Water Quality Management Plan will be developed to protect water quality objectives and beneficial uses from impacts due to Proposed Project activities, such as increases in turbidity associated with the Proposed Project. The Water Quality Management Plan will require management of turbidity levels in Fordyce Creek at or below a "severity-of-ill-effect" (SEV) of 3.5 on the Newcombe (2003) ranking model (SEV Model). The Water Quality Management Plan shall include protocols used to monitor turbidity, dissolved oxygen, pH, and temperature. At a minimum, the Water Quality Management Plan shall include: • monitoring locations, frequency, and duration;	Lake Fordyce	Incorporation of Water Quality Management Plan	During construction	Applicant and State Water Board	Turbidity limits in Section 401 Water Quality Certification

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	 adaptive management actions to implement if turbidity increases begin to approach SEV 3.5; 					
	 adaptive management actions to implement if water quality objectives are determined to be adversely impacted by the Proposed Project; and 					
	reporting to the State Water Board.					
	A minimum of three monitoring locations shall be required with stations located both above and below the Proposed Project. Monitoring shall occur via a sensor system to continuously monitor water quality at a minimum of 20-minute intervals. Each construction season, monitoring shall begin prior to dewatering the work area and use of the cofferdam bypass system, and shall continue for the duration of the construction season, and for a minimum of three days following the completion of the construction season.					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	Triba	Cultural Res	ources			
Disturbance of tribal cultural resources	Implement the following measures (see above): MM CUL-2: Inadvertent Discovery of Archaeological Resources.					
	MM CUL-3: Worker Training.					
	Wildfire					
Hazards from wildland fire	MM FIRE- 1: Wildland Fire Prevention. PG&E will require its contractor to implement PG&E's Utility Standard TD-1464S – Preventing and Mitigating Fires while Performing PG&E Work (PG&E 2019c). This standard includes the following requirements: 1. The construction contractor must follow locally changing meteorological conditions as well as be aware of the possibility of increased fire danger during the time work is in progress.	Fordyce Dam Work Area		construction/	Applicant and State Water Board	Hazards from wildland fire are minimized

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	 No vehicles will drive overland (e.g., forests, fields) except when performing required work or during an emergency. When driving off roadways, driver must be aware of potential ignitions that could occur. A shovel, fire extinguisher and one 5-gallon backpack pump or larger capacity water will be available inside construction vehicles and for heavy machinery or equipment (e.g., tractors, excavators, bulldozers) and. Before starting work on or near any vegetation the following actions must be performed: Review and understand the daily Utility Fire Potential Index Review the Wildfire Mitigation Matrix (Attachment 1) and assess the required mitigations based on 					
	the Utility FPI provided by PG&E's Meteorology Team.					

Potential Impact	Mitigation Measure (MM)	Location	Monitoring/ Reporting Action	Timing	Responsible Party	Effectiveness Criteria
	 c. Participate in a tailboard for any of the work activities listed in the Wildfire Mitigation. 					
	5. While performing stationary ground level jobs or activities from which a spark, fire, or flame may originate all flammable material must be removed around the operation for 10 feet.					
	6. If fire ignites on jobsite, personnel must call 9-1-1 to report ignition and take safe, reasonable suppression actions consistent with the person's experience and training.					