Section 6
Mitigation Monitoring and Reporting Program

The project will not result in any permanent adverse impacts to the environment and will provide many environmental benefits to the project area and Lake Tahoe. Potential impacts could occur to Aesthetics, Air Quality, Biological Resources, Cultural Resources, Geology and Soils, Public Safety and Hazards, Hydrology and Water Quality, Noise, Traffic and Circulation, and Utilities. Most of the potential impacts are construction related. The purpose of the project is to improve the water quality of stormwater leaving the project area and to improve the SEZ for a more natural functioning hydrologic environment for Polaris and Lake Forest creeks. This will ultimately improve the biological habitat within the project area for wildlife and vegetation.

The Mitigation Monitoring and Reporting Program listed in Table 6-1 below will reduce potential significant environmental impacts to a less than significant level. Many of these mitigation measures are already part of the project description as described in Section 3. The table below also describes the responsibility of ensuring implementation of the required mitigation measures and monitoring. This document will be used by the county before, during and after construction as applicable for monitoring.

Table 6-1
Mitigation Monitoring and Reporting Program for Lake Forest Erosion Control Project Area B

Potential Significant Impacts	***Mitigation Required***	***Implementing Responsibility***	***Monitoring Responsibilities***	***Timing and Frequency***	***Verification of Compliance (Initials & Date)***	***Potential Benefits after Construction***
Aesthetics						
Permanent structures could impact the aesthetics of the area.	AES-1 Design of all permanent structures, signs, kiosks and parking deterrents shall be in accordance with current Placer County and TRPA design standards.	DPW or its contractor and Building Department as part of permit approval.	DPW and Building Department	Prior to Construction, During Construction and Prior to Operation		Scenic quality will improve because of increased wetland and riparian area is expected upon project completion.
Skylandia Park southern parking lot expansion could impact the aesthetics of the area with parked cars.	AES-2 Provide landscaping to help shield views of parked cars at the Skylandia Park southern parking lot expansion.	DPW or its contractor	DPW	During Construction and Prior to Operation		Scenic quality could improve because new formalized parking will be further away from residences. Fewer cars will be parked along Placer County ROW in front of homes.
Air Quality						
Fugitive dust could be generated during construction.	AQ-1 During construction, the contractor shall comply with all local, regional, state and Federal regulations regarding air pollution control. The contractor shall comply with Placer County Air Pollution Control District Rules and Regulations including but not limited to: Rule 202- Visible Emissions, Rule 207- Particulate Matter, Rule 213- Gasoline Transfer into Storage Containers, Rule 214- Gasoline Transfer into Vehicle Fuel Tanks, Rule 217- Cutback and Emulsified Asphalt Paving Materials, Rule 228- Fugitive Dust, Rule 240- Surface Preparation and Clean-up (Placer County Undated).	DPW or its contractor	DPW	During Construction		
	AQ-2 Grading activities shall adhere to TRPA Code of Ordinances, Section VIII, Chapter 64 – Grading Standards.	DPW or its contractor	DPW	During construction		
	AQ-3 The following Placer County Air Pollution Control District (PCAPCD) Best-Available Mitigation Measures and TRPA Best Management Practices (BMPs) shall be	DPW or its contractor	DPW	During construction		

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	implemented during project construction: ▪ All disturbed areas shall be adequately restabilized to minimize exposure of soil to wind and water erosion. ▪ All grading operations shall be suspended when wind speeds exceed 25 miles per hour and dust impacts are occurring off-site. ▪ Cover all exposed stockpiles to reduce wind and water erosion. This information will be included in the plans and specifications. ▪ During clearing, demolition, earth moving, excavation operations, or grading, fugitive dust emissions shall be controlled by regular watering or other dust preventive measure (e.g. hydroseeding, dust control palliative, etc.) subject to the approval of Placer County. ▪ Existing power sources (e.g. power poles) or clear fuel generators shall be utilized, rather than diesel powered generators. ▪ Low emission on-site stationary and mobile equipment shall be utilized ▪ Construction vehicles shall be washed on a regular basis to eliminate dust and debris. ▪ Diesel warm up and idling times shall be limited to 5 minutes. ▪ The site contractor shall have a regular maintenance program for all equipment to ensure that the equipment engines are properly tuned and maintain. ▪ Construction equipment exhaust emissions shall not exceed Federal and/or state Health and Safety Code visible emission limitations. ▪ All haul/dump truckloads shall be					

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	covered securely. ▪ All dirt and mud, which has been generated from or deposited by construction equipment going to and from the construction site shall be removed from all adjacent streets when needed. ▪ On-site vehicle speed shall be limited to 15 miles per hour on unpaved surfaces. ▪ Construction equipment idling shall be kept to a minimum when it is not in use. ▪ The construction contractor shall post a publicly visible sign on the project site during construction that specify the telephone number and person/agency to contact for complaints and/or inquiries on dust generation and other air quality problems resulting from project construction.					
Biological Resources						
General and sensitive vegetation may be impacted during construction.	**BIO-1** Prior to construction begins a TRPA Forester will do a tree removal survey and advise specific BMP implementation.	DPW or its contractor	DPW and TRPA	Prior to construction		The project will benefit vegetation and wildlife because increased wetland and riparian area is expected upon project completion.
	BIO-2 Vegetation of good quality that must be cleared for construction will be salvaged and reused onsite for restoration purposes. A temporary irrigation system will be constructed to irrigate the stockpiled vegetation and new vegetation once it is planted.	DPW or its contractor	DPW	During construction, Prior to operation and Ongoing		
	BIO-3 Any sighting of listed or sensitive plant species will be reported to a U.S. Forest Service (USFS LTBMU) biologist. These plant locations will be protected in accordance with the Sierra Nevada Forest Plan Amendment (2000) and	DPW or its contractor	DPW	Prior to and during construction		

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	the Environmental Threshold Carrying Capacities for the Lake Tahoe Region guidelines.					
	BIO-4 Mitigation measures to avoid impacts to Tahoe yellow cress shall include the following: a Tahoe yellow cress field survey will be conducted prior to construction each year, between June 30 and September 30 by a qualified biologist. The results will be mapped on the working engineering plan set for proposed project improvements. In all years during which construction will take place along the lake shore, prior to commencement of construction, Tahoe yellow cress populations within 200 feet of the proposed disturbance areas will be identified and delineated with orange construction fence to ensure that populations are not impacted by equipment. Equipment access routes will be identified and any Tahoe yellow cress populations along the access route will be delineated. The contractor will be instructed regarding current policy regarding Tahoe yellow cress. If any project activities are conducted during a low lake level period when plants may be present, all work activities will remain above 6,228 feet AMSL to avoid the low lying populations.	DPW or its contractor	DPW and TRPA	Prior to between June 30 and September 30 During construction. Ongoing after construction if required		
	BIO-5 Prior to implementing project activities in undeveloped habitat, a survey for special status plants will be conducted. If these species are found during the pre-project survey, specific BMPs will be implemented.	DPW or its contractor	DPW	Prior to and during construction Ongoing after construction as required		
Construction activities may cause the spread of noxious weeds in the project area.	**BIO-6** All off-road equipment and vehicles (USFS LTBMU contracted) used for project implementation are required to be weed-free. All	DPW or its contractor	DPW	During construction Ongoing monitoring for noxious week		The project will help to eradicate noxious weeds in the project area.

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	equipment and vehicles will be cleaned of all attached mud, dirt, and plant parts. This will be done at a vehicle washing station before the equipment and vehicles enter the project area and before vehicles enter the Basin (if they originate from outside the Basin).			development after construction		
	BIO-7 All earth-moving equipment, gravel, fill, or other materials will be required to be weed-free. Use onsite sand, gravel, rock, or organic matter when possible. Otherwise, obtain weed-free materials from gravel pits and fill sources that have been surveyed and approved by the California Department of Food and Agriculture, Nevada Department of Agriculture, or by a botanist or ecologist at the Lake Tahoe Basin Management Unit.	DPW or its contractor	DPW	Prior to and during construction Ongoing monitoring for noxious week development after construction		
	BIO-8 Minimize the amount of ground and vegetation disturbance in the construction areas to those necessary for construction. Reestablish vegetation on all disturbed bare ground to minimize weed establishment and infestation.	DPW or its contractor	DPW	During construction and ongoing monitoring after construction		
	BIO-9 Use weed-free equipment, mulches, and seed sources. Salvage topsoil from project area for use in onsite revegetation, unless any noxious weeds are present. All activities that require seeding or planting must utilize locally collected native seed sources when possible. Plant and seed material should be collected from or near the project area, from within the same watershed, and at a similar elevation when possible. Persistent non-native species such as *Phleum pretense* (cultivated timothy), *Dactylis*	DPW or its contractor	DPW	Prior to and during construction Ongoing monitoring for noxious week development after construction		

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	glomerata (orchard grass), or *Lolium* spp. (ryegrass) will not be used. This requirement is consistent with the USFS Region 5 policy that directs the use of native plant material for revegetation and restoration for maintaining "the overall national goal of conserving the biodiversity, health, productivity, and sustainable use of forest, rangeland, and aquatic ecosystems". Seed mixes must be approved by a USFS LTBMU botanist.					
	BIO-10 Staging areas for equipment, materials, or crews will not be sited in weed-infested areas.	DPW or its contractor	DPW			
	BIO-11 Weed infestations identified before project implementation that are within the project area or along travel routes near the project area will be hand treated or "flagged and avoided" according to the species present and project constraints.	DPW or its contractor	DPW	Prior to and during construction Ongoing monitoring for noxious weeds after construction		
	BIO-12 The project area will be monitored for three years subsequent to project implementation to ensure weeds do not become established in the areas affected by the project. Annual reporting will be submitted to the noxious weed coordinator for USFS LTBMU to ensure compliance. If noxious weeds are found, the noxious weed coordinator for USFS LTBMU will be notified immediately.	DPW or its contractor	DPW	Ongoing after construction for 3 years		
Short-term impacts to general and sensitive wildlife habitat could occur during construction.	**BIO-13** Any management activities that require removal of trees and shrubs should be conducted outside the avian nesting season (April 1 through August 15) unless a qualified biologist determines that no nesting is occurring. The chronology of each year's nesting could vary due to snow loads. If vegetation removal and ground disturbance occurs during the	DPW or its contractor	DPW	Prior to construction		The project will be beneficial to wildlife habitat in the project area as riparian habitat and SEZ is restored.

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Potential Significant Impacts	Mitigation Required	Implementing Responsibility	Monitoring Responsibilities	Timing and Frequency	Verification of Compliance (Initials & Date)	Potential Benefits after Construction
	avian nesting season, a qualified biologist should conduct a nesting bird survey of the areas of vegetation and tree removal out to 150 feet to ensure that breeding birds are not adversely affected. To comply with the Migratory Bird Treaty Act, any location containing an active nest will not be disturbed until the young have fledged or it is determined that the nest is inactive. The survey should be conducted no sooner than 30 days prior to construction activity.					
	BIO-14 If vegetation removal and ground disturbance occurs during the avian nesting season, a qualified biologist should conduct a nesting bird survey to ensure that breeding birds are not adversely affected. To comply with the Migratory Bird Treaty Act, any location containing an active nest will not be disturbed until the young have fledged or it is determined that the nest is inactive. The survey should be conducted no sooner than 30 days prior to construction activity.	DPW or its contractor	DPW	Prior to construction		
	BIO-15 Construction shall occur during the late spring, summer and fall months, so work in SEZ areas is conducted in drier conditions.	DPW or its contractor	DPW	During construction		
	BIO-16 Best management practices shall be implemented by the contractor to ensure that sediment is kept out of the SEZ during construction. Construction fencing shall be installed around improvements and tress (>6 inches dbh) to ensure no impacts are made outside of the proposed project area to existing riparian habitat. Contractors' access with equipment will be restricted through the use of construction limit fencing to reduce the	DPW or its contractor	DPW	Prior to and during construction		

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	amount of disturbance. All disturbed areas will be stabilized and revegetated with native seed and compost. All revegetated areas will be irrigated for a minimum of two years following construction.					
	BIO-17 On-site construction access/haul routes will be delineated at 15 feet wide to minimize impacts to existing riparian habitat. These routes will be constructed using TRPA and Placer County standards established in the Basin: imported road base over geotextile fabric. Also, use of low ground pressure equipment or construction of road beds to meet maximum work area and access/haul route ground pressure standards will be required to minimize impacts to existing wet meadow areas. On-site access/haul routes will be delineated during construction with continuous flagging supported by stakes or by construction fencing to prevent equipment operators from deviating from established haul routes. All access/haul routes on existing wet meadow areas will be fully decommissioned to allow re-establishment of the meadow.	DPW or its contractor	DPW	Prior to and during construction		
	BIO-18 All trash created during construction will be properly contained (wildlife-proof containers) and removed at the end of each day.	DPW or its contractor	DPW	During construction		
	BIO-19 Any sighting of listed or sensitive wildlife species or location of nest or dens of these species will be reported to a USFS LTBMU biologist. These nests, or dens, will be protected in accordance with the Sierra Nevada Forest Plan Amendment (2000) and the Environmental Threshold Carrying Capacities for the Lake Tahoe Region	DPW or its contractor	DPW	Prior to and during construction		

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Potential Significant Impacts	Mitigation Required	Implementing Responsibility	Monitoring Responsibilities	Timing and Frequency	Verification of Compliance (Initials & Date)	Potential Benefits after Construction
	guidelines (TRPA 1982).					
	BIO-20 Placer County or their consultant will consult with agency biologists (e.g., TRPA, USFS LTBMU) to determine whether information on bald eagle and osprey nesting is available. If no agency surveys have been performed, pre-project surveys will be conducted to determine the location of any active nests.	DPW or its contractor	DPW	Prior to construction		
	BIO-21 If special status wildlife species with agency-mandated protected activity centers and Limited Operating Periods (LOPs) are found breeding in the project area, a protected activity center will be delineated by the USFS LTBMU wildlife biologist and a LOP will be implemented.	DPW or its contractor	DPW	Prior to construction		
	BIO-22 Some work is proposed within 300 feet of Willow flycatcher habitat within the project area. Prior to project implementation, protocol-level surveys for willow flycatchers will be conducted in suitable riparian/meadow habitat (situated in the undeveloped western portions of the project area) where this habitat type occurs within 300 feet of the proposed project. If willow flycatchers are detected, a LOP between June 1 and August 31 will be imposed. The location of the LOP will be determined by the USFS LTBMU wildlife biologist based on site conditions and the type of project activity. If no surveys are conducted, an LOP will automatically be implemented in suitable habitat within 300 feet of any project activities.	DPW or its contractor	DPW	Prior to construction		The project is expected to increase habitat for Willow flycatcher after construction.
Construction activities may disturb existing delineated wetlands and/or SEZs in the	**BIO-23** All disturbed areas will be revegetated once grading activities are complete. Wetland and meadow areas will also be restored with native	DPW or its contractor	DPW	During construction and ongoing after construction		The project is for the purpose of river and SEZ restoration. After completion of the project, wetland area could increase

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project area.	vegetation. A temporary irrigation system will be installed and operated for at least two years, prior to storm drain abandonment, to obtain successful revegetation before flow is introduced into the meadow. Revegetation would utilize plant species typical of wet meadow, floodplain and upland environments.					which will be a benefit to wetlands. Approximately 35 acres of SEZ will be restored.
	BIO-24 Additionally, the BMPs discussed in Section 4.8 will help to avoid disturbance and impacts to wetlands and SEZ outside of the construction limits.	DPW or its contractor	DPW	During construction		
Cultural Resources						
The project could disturbed buried and/or unknown heritage resources during grading and construction activities.	**CR-1** Should any human remains be uncovered during construction activities, all work shall stop in the immediate area of the remains. As required by California law, Placer County will contact the County Coroner, to inspect the findings and determine appropriate measures to take.	DPW or its contractor	DPW	During construction		
	CR-2 Should any archaeological materials be uncovered during construction activities, all work shall stop in the immediate area of the cultural or archaeological resource and Placer County will contact a qualified archaeologist, at Placer County's expense, to inspect the finds and determine appropriate measures to take. Construction activities will restart after inspection of the find.	DPW or its contractor	DPW	During construction		
	CR-3 A cultural resources expert shall be onsite to witness excavation in the Lake Forest Meadow.	DPW or its contractor	DPW	During construction		

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Known cultural resources could be impacted during construction.	**CR-4** Sites and finds shall be flagged by Heritage Resource specialists where needed prior to construction.	DPW or its contractor	DPW	Prior to and during construction		
Geology and Soils						
Proposed SEZ restoration activities have the potential to result in soil compaction as they would require the use of heavy equipment in relatively undisturbed natural areas.	**G-1** Equipment used for construction in SEZ areas will be low impact/low ground pressure equipment to minimize compaction. Temporary access roads will be constructed for transport of material through non-paved areas and vehicles will be restricted to these roads. Heavy equipment will travel along the proposed berm path in the Lake Forest Meadow.	DPW or its contractor	DPW	During construction		
	G-2 Topsoil and subsoil will be tested for compaction at regular intervals in areas disturbed by construction activities using penetrometers or other appropriate devices.	DPW or its contractor	DPW	During construction and prior to operation		The use of topsoil would increase the chances and/or rate of vegetation establishment.
Grading and construction activities could introduce sediment to water ways or cause erosion.	**G-3** Construction sites will be fenced to prevent construction traffic in areas where there are no proposed improvements. Access to improvement areas will use temporary wood chip mulch, or gravel mulch to prevent soil compaction. Wood chips or gravel mulch shall be placed 6 to 12 inches deep on top of a geotextile landscape fabric. Air spaces in the mulch should cushion the impact of machinery or foot traffic and disperse the weight over a larger area. The landscape fabric makes cleanup easier.	DPW or its contractor	DPW	Prior to and during construction		Erosion control measures are included in the project description throughout the project area. This is a benefit to soils and geology in the project area. The project would increase overbank flow that would help to reduce sediment loading downstream to Lake Tahoe as a benefit from project implementation.
	G-4 The Contractor will avoid grading and earthmoving activities when the soil is saturated.	DPW or its contractor	DPW	During construction		
	G-5 The Contractor will loosen the top 12-18 inches of soil after grading, but before seeding.	DPW or its contractor	DPW	During construction		

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	G-6 Disturbed soils will be revegetated and stabilized according to a TRPA approved revegetation plan. Disturbed areas will be seeded with native grasses and mulched. When construction sequencing allows, certain areas to be completed prior to other project areas, these areas will be revegetated at that time and will have any necessary irrigation systems installed to ensure vegetation growth. Vegetation in the Lake Forest Meadow will be required to reach a 70-80% survival rate before flow is introduced.	DPW or its contractor	DPW	During construction and ongoing after construction until vegetation is established		
	G-7 The Contractor will be required to develop and implement BMPs during construction to reduce stormwater runoff and erosion. The BMPs will include the following measures: • Prior to plant establishment, Lake Forest Meadow and all other restoration reaches will have silt fencing installed perpendicular to the slope every 100 feet. • A temporary sediment trap will be installed at Lake Forest Road (the downstream end of the Lake Forest Meadow) to catch excess sediment from the meadow. • A turbidity curtain will be installed at the outlet of Lake Forest and Polaris Creeks (Bristlecone Street, and Star Harbor) when working below the high water mark. • Sand bags will be placed around all existing drop inlets and sediment traps. • All roadside ditches will have gravel bag check dams every 100 feet. • All proposed drop inlets, once	DPW or its contractor	DPW	Prior to and during construction		

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	installed, will have drop inlet protection installed until construction is complete. • All access routes will be protected from compaction, and will be stabilized if necessary. • Silt fencing will be installed down gradient from all proposed basin sites.					
	G-8 The contractor will be required to attend a TRPA pre-grade inspection meeting onsite to ensure that BMPs are in place as per the construction plans before earthwork can begin.	DPW or its contractor	DPW and TRPA	Prior to construction		
	G-9 The Contractor will be required to comply with an approved (by Lahontan) SWPPP, TRPA permit and dewatering/diversion plan. This plan will provide erosion control and other measures to capture stormwater and prevent illegal discharges to existing surface water.	DPW or its contractor	DPW	During construction		
	G-10 Construction will only occur between May 1st and Oct 15th to reduce the potential for storm events and stormwater run-off.	DPW or its contractor	DPW	During construction		
	G-11 The Contractor will cover all exposed stockpiles to reduce wind and water erosion. This information will be included in the plans and specifications.	DPW or its contractor	DPW	During construction		
Public Safety and Hazards/Risk of Upset						
Use of hazardous materials during construction could cause a safety hazard if a spill occurs	**PS-1** The contractor, under the direction of Placer County, will implement BMPs during construction and develop a Hazardous Material Spill Prevention and Containment Plan to minimize the risk of any contamination of toxic materials during project construction. The Hazardous Materials Management Plan will include measures to properly handle,	DPW or its contractor	DPW	During construction		

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	store, and transport any hazardous materials used onsite. This plan would be outlined within the approved SWPPP. It would also include a spill plan with clean up procedures and contact list to ensure any spill is reported to the appropriate agencies. In the event of a hazardous materials spill, the appropriate agencies would be contacted (LRWQCB, Fire Department, DTSC) and the spill would be cleaned up in immediately, in coordination with these agencies. All vehicle and equipment staging and hazardous materials storage would occur well away from any waterway or Lake Tahoe to prevent a discharge in the event of an accidental spill or leak.					
	PS-2 The project will be isolated during construction by turbidity curtains, gravel bags, and/or filter fabric minimizing the risk of contamination to surface waters from potential spill of hazardous materials.	DPW or its contractor	DPW	Prior to and during construction		
	PS-3 Staging areas for fueling and maintenance of heavy equipment during construction will occur away from the stream channels and Lake Tahoe in order to limit potential spills to designated areas where observation and clean-up can be readily accomplished. Should an oil or fuel spill occur during construction or maintenance activities, all work will cease immediately, the Lahontan will be notified, and clean up procedures will begin immediately.	DPW or its contractor	DPW	During construction		
Underground utilities could be damaged during construction activities posing a safety risk to construction works and	See mitigation measures U-1 and U-2 under Utilities.	DPW or its contractor	DPW	Prior to and during construction		

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the general public.						
Construction activities could cause a wildfire in undeveloped areas.	**PS-4** Vehicles and equipment will be kept on existing paved or gravel roads as much as possible to prevent ignition of dry vegetation. Fire suppression equipment will be kept on-site and all mechanical equipment will have spark arrestors.	DPW or its contractor	DPW	During construction		
Hydrology and Water Quality						
Short-term and temporary impacts to water quality could result from grading and construction activities.	**WQ-1** Earthwork shall be confined to areas of construction activities according to the construction staging plan described on Figure 3-4. This information will be included in the contractor specifications. Filter fencing will be installed around all of the stockpile locations and equipment storage areas.	DPW or its contractor	DPW	Prior to and during construction		The project is expected to benefit water quality due to increased floodplain, higher quality wetlands and SEZ, erosion control improvements and resource protection measures. The project will increase sediment deposition in meadow areas. It is expected that less sediment will reach Lake Tahoe because more will be deposited on the restored meadows before it reaches the lake. The project will also stabilize eroding areas which will also reduce the amount of sediment reaching the lake from the project area.
	WQ-2 Stockpiled and transported material will be covered to control stormwater runoff.	DPW or its contractor	DPW	During construction		
	WQ-3 Construction vehicles will be serviced in specific upland areas or stabilized areas to prevent accidental spills of fluids, oils and lubricants into surface water and the ground surface protected from spills.	DPW or its contractor	DPW	During construction		
	WQ-4 Construction equipment shall be cleaned to remove any loose dirt or sediment prior to exiting the site. Washing will take place within an approved staging area with BMPs in place, stabilized with crushed stone, and will drain to an approved sediment trap or basin.	DPW or its contractor	DPW	During construction		
	WQ-5 All spills shall be reported to Lahontan and procedures and response protocols for immediate cleanup outlined in the SWPPP shall be implemented. These procedures shall include placement of sandbags, gravel, boards or other TRPA approved methods to prevent spilled	DPW or its contractor	DPW	During construction		

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	material from entering any drainage facilities or areas.					
	WQ-6 During grading activities in Lake Forest Meadow, heavy equipment will use the proposed berm location as an access route through the meadow. BMPs will be constructed along this route to prevent stormwater from leaving the area prior to treatment.	DPW or its contractor	DPW	During Construction		
	WQ-7 The project site will be winterized according to TRPA and Lahontan requirements at the end of each construction season.	DPW or its contractor	DPW	During construction by October 15		
	WQ-8 Implement the dewatering/diversion plan for each construction year as described in Section 3.2.9.	DPW or its contractor	DPW	During construction		
	WQ-9 Revegetate all disturbed areas with native riparian or upland vegetation where applicable according to a TRPA approved revegetation plan. Salvaged sod, willows and other riparian vegetation will be propagated and used where possible. Additional seed or vegetation will be added where needed for stabilization measures.	DPW or its contractor	DPW	During construction		
	WQ-10 Construction activities will be implemented in full compliance with the Lahontan Water Quality Control Plan (Basin Plan) and Section 401 of the Clean Water Act through consultation, with and permits issued by Lahontan.	DPW or its contractor	DPW	During construction		
	WQ-11 Construction activities will be implemented in full compliance with the TRPA permit, SWPPP and approved dewatering/diversion plan.	DPW or its contractor	DPW	During construction		
	WQ-12 Prior to the introduction of flow into the designed meadow, the newly constructed meadow will be flushed until the effluent collected in the downstream temporary sediment can	DPW or its contractor	DPW	During construction		

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	meets the Lahontan 20 NTU turbidity standard. The effluent will be collected and dispersed on upland areas.					
	WQ-13 Disturbed soils will be revegetated and stabilized according to a TRPA approved revegetation plan. Disturbed meadow areas will be amended and seeded with native grasses. When construction sequencing allows certain areas to be completed prior to other project areas, these areas will be revegetated at that time and have any necessary irrigation systems installed to encourage rapid vegetation growth. Irrigation systems will be monitored regularly.	DPW or its contractor	DPW	During construction and ongoing after grading until vegetation is established		
	WQ-14 Prior to plant establishment, Lake Forest Meadow and all other restoration reaches will have silt fencing installed perpendicular to the slope every 100 feet.	DPW or its contractor	DPW	Prior to and during construction		
	WQ-15 A turbidity curtain will be installed at the outlet of Lake Forest and Polaris Creeks (Bristlecone Street, and Star Harbor).	DPW or its contractor	DPW	Prior to and during construction		
	WQ-16 Gravel bags will be placed around all existing DIs and sediment traps in the project area's flow path.	DPW or its contractor	DPW	Prior to and during construction		
	WQ-17 All roadside ditches in the project area's flow path will have gravel bag check dams every 100 feet.	DPW or its contractor	DPW	Prior to and during construction		
	WQ-18 All proposed drop inlets, once installed, will have drop inlet protection installed until construction is complete.	DPW or its contractor	DPW	During construction		
	WQ-19 Construction staging areas will be equipped with concrete washout facilities.	DPW or its contractor	DPW	Prior to and during construction		
	WQ-20 All access routes will be protected from compaction, and will be stabilized if necessary.	DPW or its contractor	DPW	Prior to and during construction		

Table 6-1
Mitigation Monitoring and Reporting Program for Lake Forest Erosion Control Project Area B

Potential Significant Impacts	***Mitigation Required***	***Implementing Responsibility***	***Monitoring Responsibilities***	***Timing and Frequency***	***Verification of Compliance (Initials & Date)***	***Potential Benefits after Construction***
	WQ-21 Silt fencing will be installed down gradient from all proposed basin sites.	DPW or its contractor	DPW	Prior to and during construction		
	WQ-22 During construction daily inspections will be conducted on all existing BMP's in the project area. Should any deficiencies be noted, remedial action by Placer County staff and/or Contractor will be initiated immediately.	DPW or its contractor	DPW	During construction		
	WQ-23 Equipment will not be operated in the stream/spring channels of flowing live streams/springs, although it may be necessary to construct crossings or barriers and fills at channel changes.	DPW or its contractor	DPW	During construction		
	WQ-24 When work in a flowing stream/spring is unavoidable, the entire stream flow will be gradually diverted around the work area by a barrier, temporary culvert and/or a new bypass channel. Construction of the barrier and/or new bypass channel shall proceed in a manner that minimizes sediment discharges and facilitates wildlife escape from the work area.	DPW or its contractor	DPW	During construction		
	WQ-25 Placer County will prepare a Sampling and Analysis Plan (SAP) to be included as part of the SWPPP. The SAP will identify sampling locations and procedures to measure stormwater run-off and nearby surface waters during storm events to identify threats to water quality.	DPW or its contractor	DPW	Prior to construction		
	WQ-26 Instream construction activities will be limited to the period from June 1 to October 15 of each year. Limiting construction activities to this period will reduce the potential of encountering groundwater and adverse impacts to amphibian resources.	DPW or its contractor	DPW	During construction		

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Potential Significant Impacts	***Mitigation Required***	***Implementing Responsibility***	***Monitoring Responsibilities***	***Timing and Frequency***	***Verification of Compliance (Initials & Date)***	***Potential Benefits after Construction***
	WQ-27 All dirt and mud, which has been generated from or deposited by construction equipment going to and from the construction site shall be removed from all adjacent streets when needed. A stable construction access point will be constructed.	DPW or its contractor	DPW	Prior to and during construction		
During construction groundwater could be intercepted and affected.	**WQ-28** The Construction Dewatering/Diversion Plan described in subsection 3.2.9 outlines the proper handling, treatment, and disposal techniques that will be implemented if groundwater or surface water is encountered during construction activities. In the event of groundwater interception in the construction sites would rely on settling tanks prior to spreading on undisturbed upland areas as irrigation water. If intercepted groundwater exceeds the volume usable in the upland areas or the irrigation system capacity, it will be treated in portable treatment units and discharged downstream of the construction area.	DPW or its contractor	DPW	During construction		
Land Use						
No land use impacts	None	N/A	N/A	N/A		
Noise						
Construction related activities will generate a short-term increase in ambient noise levels. The activities would be louder than regular traffic in the neighborhood, but within acceptable noise decibel standards imposed by Placer County and TRPA. Although the project is not expected to increase daily noise	**N-1** Any normal construction activities shall be conducted between the hours of 8:00 a.m. and 6:30 p.m., Monday through Friday, holidays excluded. Any construction activities conducted between the hours of 6:30 p.m. and 8:00 a.m., Saturday, Sunday and holidays, shall comply with the noise standards applicable to the corresponding TRPA Plan Area Statements.	DPW or its contractor	DPW	During construction		

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Potential Significant Impacts	***Mitigation Required***	***Implementing Responsibility***	***Monitoring Responsibilities***	***Timing and Frequency***	***Verification of Compliance (Initials & Date)***	***Potential Benefits after Construction***
levels beyond the CNEL standard, the implementation of mitigation measures would further reduce potential impacts to an even lower level.						
Recreation						
Impacts to recreation are less than significant.	None	N/A	N/A	N/A		
Traffic and Circulation						
Temporary construction impacts to traffic circulation could occur during road closures.	**TR-1** For situations where roads must be temporarily closed for construction, the contractor will develop a traffic management & control plan for review and approval. This plan will include the use of signage, and flaggers to direct motorists. Detours will be developed where needed, but access for local residents, emergency vehicles, and school buses will not be eliminated.	DPW or its contractor	DPW	Prior to and during construction		
	TR-2 Where roads must be temporarily closed the contractor will try to keep one lane open at all times. On roads with the heaviest traffic, SR 28 and Lake Forest Road, there will be no lane closures on weekends, holidays, or Fridays that precede holiday weekends.	DPW or its contractor	DPW	During construction		
	TR-3 Prior to construction, Placer County will inform local residents of the construction schedule and traffic detours through fliers.	DPW or its contractor	DPW	Prior to and during construction		

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Mitigation Monitoring and Reporting Program for Lake Forest Erosion Control Project Area B

Potential Significant Impacts	***Mitigation Required***	***Implementing Responsibility***	***Monitoring Responsibilities***	***Timing and Frequency***	***Verification of Compliance (Initials & Date)***	***Potential Benefits after Construction***
Increased vehicle trips to the area from construction workers and hauling trips could increase traffic congestion.	**TR-4** The total vehicle trips per day (including hauling, construction workers, and equipment) will not exceed 100 trips per day. The contractor will be required to time hauling trips to comply with this measure.	DPW or its contractor	DPW	During construction		
	TR-5 Workers will be encouraged to carpool or take public transportation to the work site to reduce the number of additional vehicle trips. The contractor should monitor for any vehicle backups that occur in the area due to additional trips.	DPW or its contractor	DPW	During construction		
Construction of improvements could impact parking, pedestrian and bicycle access during construction.	**TR-6** Construction of curb and gutter on Lake Forest Road will be coordinated with local commercial tenants to ensure that parking and circulation will not be impacted during construction.	DPW or its contractor	DPW	Prior to and during construction		The project will improve parking at the end of Bristlecone Street for lake access parking and parking at Skylandia park.
	TR-7 Temporary impacts to pedestrian and bicycle pathways will be mitigated by maintaining alternative access when necessary throughout the project.	DPW or its contractor	DPW	During construction		
			Utilities			
Excavation and grading activities could conflict with existing underground utilities.	**U-1** Prior to construction, existing utility providers will be contacted to obtain current information on any utilities in the area. Utilities will be verified using field surveys (potholing). In accordance with California Government Code Section 4216, Underground Service Alert (USA) of Northern California will be notified at least 2 working days prior to the start of construction to locate any utilities not owned or maintained by Placer County. These utilities will be marked with white paint or other suitable markings to alert workers of their locations. Hand tools will be used	DPW or its contractor	DPW	Prior to and during construction		

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Mitigation Monitoring and Reporting Program for Lake Forest Erosion Control Project Area B

Potential Significant Impacts	***Mitigation Required***	***Implementing Responsibility***	***Monitoring Responsibilities***	***Timing and Frequency***	***Verification of Compliance (Initials & Date)***	***Potential Benefits after Construction***
	when digging is required in close proximity to any buried utilities.					
	U-2 The Contractor will be required to develop and implement an emergency action plan that will address accidental damage to utilities during construction. This plan will outline contact information to notify the appropriate authorities, directions to the nearest hospital in case of injuries, and a procedure to alert local residences and nearby schools in the event that an evacuation becomes necessary.	DPW or its contractor	DPW	Prior to and during construction		
Utility service could be temporarily interrupted during construction.	**U-3** Residences, businesses, and schools will be notified in advance of any planned interruptions in service during construction.	DPW or its contractor	DPW	During construction		
Cumulative Impacts						
The project could contribute to cumulative biological and water quality impacts as other projects would be under construction during the 3 year construction period.	The project design features described in the short term impact analysis for the Project Alternative have been structured to make sure impacts to biological resources and water quality would be less than significant. These features and mitigation measures plus the fact that all the cumulative projects, including the proposed project, would implement erosion and runoff measures required by the TRPA and Lahontan, and the NPDES permit and SWPPP (as applicable), support the expectation that the implementation of these measures would result in a less than cumulatively considerable impact associated with biological resources, hydrology and water quality.	DPW or its contractor	DPW	Prior to and during construction Ongoing after construction as indicated for each mitigation measure		