Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	Consistent? (Yes/No)	Explanation
Section VI: Public Facilities and Services		
Policy 6.C.4. The County shall require that new development adjacent to surface and subsurface bodies of water adequately mitigate potential water quality impacts on these water bodies.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to Placer County General Plan Policy 4.C.5. See the explanation for that policy.
Policy 6.C.7. The County shall protect the watersheds of all surface and subsurface bodies of water associated with the storage and delivery of domestic water by limiting grading, construction of impervious surfaces, application of fertilizers, and prohibition on the development of septic systems on lots less than 10 acres in size within these watersheds.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to Placer County General Plan Policy 4.C.11. See the explanation for that policy.
Policy 6.E.4. The County shall require that new development conform with the applicable programs, policies and recommendations of the Placer County Flood Control and Water Conservation District.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to Placer County General Plan Policy 6.A.2. See the explanation for that policy.
Policy 6.E.7. The County shall require new development to adequately mitigate increases in stormwater peak flows and/or volume. Mitigation measures must take into consideration impacts on adjoining lands in the Town of Truckee and Nevada County adjacent to Placer County, and Martis Lake and its tributaries.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Impacts associated with flooding, stormwater runoff, and water quality are addressed in Section 4.6, Hydrology and Water Quality. Specifically, Impact 4.6-2 addresses these issues and finds that any increase in impervious surfaces associated with these activities would be relatively small with little potential to increase the amount or rate of stormwater runoff in a manner that would exceed the capacity of existing or planned stormwater drainages, infiltration, and treatment systems or facilities or cause detrimental flooding to property or infrastructure. Therefore this would be a less-than-significant impact. Additionally, APMs WQ-1 through WQ-8 address hydrology and water quality issues.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
Policy 6.E.10. The County shall require projects that have significant impacts on the quantity and quality of surface water runoff to allocate land as necessary for the purpose of detaining post-project flows and/or for the incorporation of mitigation measures for water quality impacts related to urban runoff.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 4.E.14. See the explanation for that policy.
Policy 6.F.1. The County shall require that arterial roadways and expressways, residences, commercial and industrial uses and emergency facilities be protected, at a minimum, from a 100-year storm event.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 4.F.1. See the explanation for that policy.
Policy 6.H.9. The County shall ensure that all proposed developments are reviewed for compliance with fire safety standards by responsible local fire agencies per the *Uniform Fire Code* and other County and local ordinances.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 4.I.9. See the explanation for that policy.
Policy 6.H.11. The County shall ensure that development in high-fire-hazard areas is designed and constructed in a manner that minimizes the risk from fire hazards and meets all applicable state and county fire standards.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 8.C.1. See the explanation for that policy.
Policy 6.H.12. The County shall require that discretionary permits for new development in fire hazard areas be conditioned to include requirements for fire-resistant vegetation, cleared fire breaks, or a long-term comprehensive fuel management program. Fire hazard reduction measures shall be incorporated into the design of development projects in fire hazard areas.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 8.C.2. See the explanation for Policy 8.C.1.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	Consistent? (Yes/No)	Explanation
Policy 6.H.13. The County shall require that new development meets state, county, and local fire district standards for fire protection.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 8.C.3. See the explanation for Policy 8.C.1.
Section VIII: Cultural Resources		
Policy 8.A.3. The County shall solicit the views of the Native American Heritage Commission and shall consult directly with the Washoe Tribe of Nevada and California in cases where development may result in disturbance to sites containing evidence of Native American activity and/or to sites of cultural importance.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 5.D.3. See the explanation for that policy.
Policy 8.A.5. The County shall require that discretionary development projects identify and protect from damage, destruction, and abuse, important historical, archaeological, paleontological, and cultural sites and their contributing environment. Such assessments shall be incorporated into a countywide cultural resource database, to be maintained by the Department of Museums.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 5.D.6. See the explanation for that policy.
Policy 8.A.6. The County shall require that discretionary development projects are designed to avoid potential impacts to significant paleontological or cultural resources whenever possible. Unavoidable impacts, whenever possible, shall be reduced to a less-than-significant level and/or shall be mitigated by extracting maximum recoverable data. Determinations of impacts, significance, and mitigation shall be made by qualified archaeological (in consultation with the Washoe Tribe of Nevada and California), historical, or paleontological consultants, depending on the type of resource in question.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 5.D.7. See the explanation for that policy.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	Consistent? (Yes/No)	Explanation
Section IX: Natural Resources		
Policy 9.A.1. The County shall require the preparation of a soils or geologic investigation prior to permitting development in areas of known or suspected geological or seismic hazards (i.e., seismically induced ground shaking, landslides, liquefaction, critically expansive soils, avalanche).	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 8.A.1. See the explanation for that policy.
Policy 9.A.2. The County shall require submission of a preliminary soils report, prepared by a registered civil or geotechnical engineer and based upon adequate test borings, for every major subdivision and for each individual lot where critically expansive soils have been identified or are expected to exist.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to Placer County General Plan Policy 8.A.1. See the explanation for that policy.
Policy 9.A.4. The County shall ensure that areas of slope instability are adequately investigated and that any development in these areas incorporates appropriate design provisions to prevent landsliding.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 8.A.4. See the explanation for Policy 8.A.1.
Policy 9.A.5. In landslide hazard areas, the County shall prohibit alteration of land in a manner that could increase the hazard, including concentration of water through drainage, irrigation, or septic systems; removal of vegetative cover; and steepening of slopes and undercutting the bases of slopes.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 8.A.5. See the explanation for that policy.
Policy 9.A.6. The County shall require drainage plans for development in mountainous and sloping areas that direct runoff and drainage away from unstable slopes.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to Placer County General Plan Policy 8.A.6. See the explanation for that policy.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
Policy 9.A.8. The County shall require that the location and/or design of any new buildings, facilities, or other development in areas subject to earthquake activity minimize exposure to danger from fault rupture or creep.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 8.A.9. See the explanation for that policy.
Policy 9.A.9. The County shall limit development in areas of steep (in excess of 30% or in some cases between 20 and 30%) or unstable slopes to minimize hazards caused by landslides or liquefaction and to reduce grading and disturbance to such slopes.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 8.A.11. See the explanation for Policies 8.A.9 and 8.A.10.
Policy 9.B.2. The County shall require new development in areas of avalanche hazard to be sited, designed, and constructed to minimize avalanche hazards.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 8.H.2. See the explanation TRPA Regional Plan Policy NH-1.1.
Policy 9.B.3. The County shall not issue permits for new development in potential avalanche hazard areas (PAHA) as designated in the Placer County *Avalanche Management Ordinance* unless project proponents can demonstrate that such development will be safe under anticipated snow loads and conditions of an avalanche.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 8.A.12. See the explanation TRPA Regional Plan Policy NH-1.1.
Policy 9.C.2. The County shall require topographic and slope analysis maps during the environmental review process or at the first available opportunity of project review to evaluate future grading activity, building location impacts, and road construction impacts.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to Placer County General Plan Policy 8.A.1. See the explanation for that policy.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
Policy 9.D.1. The County shall require the provision of sensitive habitat buffers which shall, at a minimum, be measured as follows: 100 feet from the centerline of perennial streams, 50 feet from centerline of intermittent streams, and 50 feet from the edge of sensitive habitats to be protected including riparian zones, wetlands, old growth woodlands, and the habitat of rare, threatened or endangered species (see discussion of sensitive habitat buffers in Part 1 of the PCGP). In some cases, buffers shall be required which are substantially larger than noted above. Conversely, based on more detailed information supplied as a part of the review for a specific project, the County may determine that such setbacks are not applicable in a particular instance or should be modified based on the new information provided. In addition, the County may allow exceptions, such as in the following cases: a. Reasonable use of the property would otherwise be denied; b. The location is necessary to avoid or mitigate hazards to the public. c. The location is necessary for the repair of roads, bridges, trails or similar infrastructure; or d. The location is necessary for the construction of new roads, bridges, trails, or similar infrastructure where the County determines there is no feasible alternative and the project has minimized environmental impacts through project design and infrastructure placement.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 6.A.1. See the explanation for that policy.
Policy 9.D.2. The County shall require that any permitted disturbance in the 100-year floodplain comply with the provisions of the Placer County Flood Damage Prevention Ordinance and any other existing regulations.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 6.A.2. See the explanation for Policy 4.E.1.
Policy 9.D.3. The County shall require development projects proposing to encroach (where it has been determined to be	Alternative 1 (PEA): Yes	This policy is the same as Placer County General Plan

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
appropriate) into a creek corridor or creek setback to do one or more of the following, in descending order of desirability: a. Avoid the disturbance of riparian vegetation; b. Replace riparian vegetation (on-site, in-kind); c. Restore another section of creek (in-kind) and/or; d. Pay a mitigation fee for restoration elsewhere (e.g. wetland mitigation banking program).	Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Policy 6.A.3. See the explanation for that policy.
Policy 9.D.4. The County shall require public and private development to address creeks and riparian corridors as follows: a. Preserve creek corridors and creek setback areas through easements or dedications. Parcel lines (in the case of a subdivision) or easements (in the case of a subdivision or other development) shall be located to optimize resource protection. If a creek is proposed to be included within an open space parcel or easement, allowed uses and maintenance responsibilities within that parcel or easement should be clearly defined and conditioned prior to map or project approval; b. Designate such easement or dedication areas (as described in a. above) as open space; c. Protect creek corridors and their habitat value by actions such as: 1) providing an adequate creek setback, 2) maintaining creek corridors in an essentially natural state, 3) employing creek restoration techniques where restoration is needed to achieve a natural creek corridor, 4) utilizing riparian vegetation within creek corridors, and where possible, within creek setback areas, 5) prohibiting the planting of invasive, non-native plants within creek corridors or creek setbacks, and 6) avoiding tree removal within creek corridors;	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to Placer County General Plan Policy 6.A.4. See the explanation for that policy and Policy 6.A.3.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
d. Provide recreation and public access near creeks consistent with other General Plan policies; e. Use design, construction, and maintenance techniques that ensure development near a creek will not cause or worsen natural hazards (such as erosion, sedimentation, flooding, or water pollution) and will include erosion and sediment control practices such as: 1) turbidity screens and other management practices, which shall be used as necessary to minimize siltation, sedimentation, and erosion, and shall be left in place until disturbed areas are stabilized with permanent vegetation that will prevent the transport of sediment off site; and/or 2) temporary vegetation is established sufficient to stabilize disturbed areas, and; f. Provide for long-term creek corridor maintenance.		
Policy 9.D.5. The County shall continue to require the use of both temporary and permanent Best Management Practices (BMPs) with every development project, to protect streams from the adverse effects of construction activities and urban runoff and to require the use of BMPs for recreational developments, such as ski areas, golf courses, bicycling facilities, hiking and equestrian trails, and other recreational uses.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to Placer County General Plan Policy 6.A.5. See the explanation for that policy.
Policy 9.D.7. The County shall prohibit grading activities during the rainy season, unless adequately mitigated, to avoid sedimentation of creeks and damage to riparian habitat.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to Placer County General Plan Policy 6.A.7. See the explanation for that policy.
Policy 9.D.8. Where the stream environment zone has previously been modified by channelization, fill, or other human activity, the County shall require project proponents to restore such areas to a more natural condition which may	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes	This policy is similar to Placer County General Plan Policy 6.A.8. See the explanation for that policy and Policy 6.A.3.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
include landscaping, revegetation, or similar stabilization techniques.	Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	
Policy 9.E.1. The County shall encourage landowners and developers to manage the integrity of existing terrain and native vegetation in visually-sensitive areas such as mountainsides, ridges, open meadows, and along important transportation corridors consistent with fire safety standards.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to Placer County General Plan Policy 1.K.6 and Policy 1.K.1. See the explanations for those policies.
Policy 9.E.2. The County shall require developers to use native and compatible non-native species, especially drought-resistant species, to the extent possible in fulfilling landscaping requirements imposed as conditions of discretionary permits or for project mitigation.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 6.D.2. See the explanation for that policy and TRPA Regional Plan Policy VEG-4.1.
Policy 9.E.4. The County shall encourage the preservation of landmark trees and major groves of native trees which have special characteristics or serve an important function such as historical interest, visual screening, shading of creeks or slope stability. In order to maintain these areas in perpetuity, protected areas shall also include younger vegetation with suitable space for growth and reproduction.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to Placer County General Plan Policy 6.D.4. See the explanation for TRPA Regional Plan Policy VEG-4.1.
Policy 9.E.5. The County shall seek to preserve areas where rare, threatened, and endangered plant species have been identified as potentially occurring and that may be adversely affected by public or private development projects.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to Placer County General Plan Policy 1.I.2. See the explanation for that policy.
Policy 9.E.6. The County shall ensure the conservation of sufficiently large, continuous expanses of native vegetation to provide suitable habitat to protect biodiversity, accommodate wildlife movement, and sustain natural	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes	This policy is similar to Placer County General Plan Policy 6.D.6. See the explanation for that policy.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
ecosystems.	Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	
Policy 9.E.9. The County shall support the preservation of native trees and the use of native seed sources and seedlings and drought-tolerant plant materials in all revegetation/landscaping projects.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Regarding native trees, this policy is similar to TRPA Regional Plan Policy VEG-4.1. See the explanation for that policy. Regarding revegetation, this policy is similar to TRPA Regional Plan Policy VEG-1.8. See the explanation for that policy.
Policy 9.E.10. The County shall require that new development avoid ecologically-fragile areas (e.g., areas of rare or endangered species of plants, riparian areas). Where feasible, these areas and heritage trees should be protected through public acquisition of fee title or conservation easements to ensure protection.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to Placer County General Plan Policies 6.D.14 and 1.I.2. See the explanation for Policy 1.I.2.
Policy 9.E.13. A mitigation monitoring plan for a minimum of two years shall be required for all tree replacement areas proposed as part of land development projects to ensure an 80% success ratio of all new plantings. Revegetation plans shall focus on creating habitat.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to TRPA Regional Plan Policy VEG-4.1. See the explanation for that policy
Policy 9.F.1. The County shall encourage the preservation and enhancement of natural open space within the riparian areas of the watercourses and drainageways found in the Martis Valley as one means of minimizing the adverse effects of land development upon the chemical and physical quality of waters therein.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	See the explanations for Placer County General Plan Policies 1.I.2, 6.A.3, 6.C.9, 6.D.4, and 6.D.
Policy 9.F.2. The County shall require that natural open space buffers be maintained in non-riparian areas adjacent to drainage swales and creeks to reduce erosion and to aid in the natural filtration of runoff waters flowing into these	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes	This policy is similar to Placer County General Plan Policy 6.A.1. See the explanation for that policy.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
waterways. The buffers shall meet the standards contained in the PCGP unless a larger buffer is warranted based on site-specific field work.	Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	
Policy 9.F.3. The County shall support the "no net loss" policy for wetland areas regulated by the U.S. Army Corps of Engineers, the U.S. Fish and Wildlife Service, and the California Department of Fish and Game. Coordination with these agencies at all levels of project review shall continue to ensure that appropriate mitigation measures and the concerns of these agencies are adequately addressed.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 6.B.1. See the explanation for that policy.
Policy 9.F.4. The County shall require new development to mitigate wetland and riparian loss in both federal jurisdictional and non-jurisdictional wetlands to achieve "no net loss" through any combination of the following, in descending order of desirability; (1) avoidance; (2) where avoidance is not possible, minimization of impacts on the resource; or (3) compensation, including use of a mitigation and conservation banking program that provides the opportunity to mitigate impacts to special status, threatened, and endangered species and/or the habitat which supports these species in wetland and riparian areas. Non-jurisdictional wetlands may include riparian areas that are not federal "waters of the United States" as defined by the Clean Water Act.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 6.B.2. See the explanation for that policy.
Policy 9.F.7. The County shall require development that may affect a wetland to employ avoidance, minimization, and/or compensatory mitigation techniques. In evaluating the level of compensation to be required with respect to any given project, a) on-site mitigation shall be preferred to off-site, and in-kind mitigation shall be preferred to out-of-kind; b) functional replacement ratios may vary to the extent necessary to incorporate a margin of safety reflecting the expected degree of success associated with the mitigation plans; and c) acreage replacement ratios may vary depending on the relative functions and values of those wetlands being lost and those being supplied, including compensation for temporal losses. The County shall continue to implement and refine criteria for	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 6.B.5. See the explanation for Policy 6.A.5.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
determining when an alteration to a wetland is considered a less-than-significant impact under CEQA.		
Policy 9.G.1. The County shall identify and protect significant ecological resource areas and other unique wildlife habitats critical to protecting and sustaining wildlife populations. Significant ecological resource areas include the following: a. Wetland areas b. Stream corridors and associated riparian areas c. Identified habitat of special status threatened or endangered animals d. Critical deer winter ranges, migratory routes and fawning habitat e. Large areas of non-fragmented natural habitat, including all habitat types in the Martis Valley Plan area. f. Identifiable wildlife movement zones, including but not limited to, non-fragmented stream environment zones, avian and mammalian migratory routes, and known concentration areas of waterfowl within the Pacific Flyway. g. Martis Lake, Martis Creek and its tributaries.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to Placer County General Plan Policies 6.B.1 and 6.C.11 and TRPA Regional Plan Policy WL-2.1. See the explanations for those policies.
Policy 9.G.4. The County shall support preservation of the habitats of rare, threatened, endangered, and/or other special status species. Federal and state agencies, as well as other resource conservation organizations, shall be encouraged to acquire and manage endangered species' habitats.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to TRPA Regional Plan Policy WL-2.1 and Policy VEG-3.1. See the explanations for those policies.
Policy 9.G.5. The County shall support the maintenance of suitable habitats for all indigenous species of wildlife, without preference to game or non-game species, through maintenance of habitat diversity.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to Placer County General Plan Policy 6.C.2. See the explanation for that policy.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	Consistent? (Yes/No)	Explanation
Policy 9.G.6. The County shall support the preservation and or reestablishment of fisheries in the rivers and streams within Martis Valley. This shall include the protection of Martis Lake as a high quality wild-trout sport-fishery and the protection of the lakes tributary streams as wild-trout habitat.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to TRPA Regional Plan Policy FI-1.1. See the explanation for that policy.
Policy 9.G.10. Prior to approval of discretionary development permits involving parcels within a significant ecological resource area, the County shall require, as part of the environmental review process, a biotic resources evaluation of the sites, prepared by a wildlife biologist or other qualified professional. The evaluation shall be based upon field reconnaissance performed at the appropriate time of year, (if necessary) to determine the presence or absence of special status, threatened, or endangered species of plants or animals. Such evaluation will consider the potential for significant impact on these resources, and will identify feasible measures to mitigate such impacts.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to Placer County General Plan Policy 6.C.11. See the explanations for Placer County General Plan Policy 6.B.1 and TRPA Regional Plan Policy WL-2.1, above.
Policy 9.H.6. The County shall require project-level environmental review to include identification of potential air quality impacts and designation of design and other appropriate mitigation measures or offset fees to reduce impacts. The County shall dedicate staff to work with project proponents and other agencies in identifying, ensuring the implementation of, and monitoring the success of mitigation measures.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 6.F.6. See the explanation for that policy.
Policy 9.H.8. The County may require new development projects to submit an air quality analysis. Based on this analysis, the County shall require appropriate mitigation measures consistent with the PCAPCD's current list of Best Available Mitigation Measures and/or the most recent version of the Air Quality Attainment Plan.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 6.F.10. See the explanation for that policy.
Policy 10.A.2. Noise created by new proposed non-transportation noise sources shall be mitigated so as not to	Alternative 1 (PEA): Yes	This policy is the same as Placer County General Plan Policy 9.A.2. See the explanation for Truckee General Plan Noise

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
exceed the noise level standards of Table 10-1 as measured immediately within the property line of lands designated for noise-sensitive uses.	Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Policy P2.2.
Policy 10.A.4. Where proposed non-residential land uses are likely to produce noise levels exceeding the performance standards of Table 10-1 at existing or planned noise-sensitive uses, an acoustical analysis shall be required as part of the environmental review process so that noise mitigation may be included in the project design. The requirements for the content of an acoustical analysis are given by Table 10-2.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 9.A.5. See the explanation for Truckee General Plan Noise Policy P2.2.
Policy 10.A.10. Where noise mitigation measures are required to achieve the standards of Tables 10-1 and 10-3, the emphasis of such measures shall be placed upon site planning and project design. The use of noise barriers shall be considered as a means of achieving the noise standards only after all other practical design-related noise mitigation measures have been integrated into the project.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is the same as Placer County General Plan Policy 9.A.12. See the explanation for Truckee General Plan Noise Policy P2.2 and Truckee General Plan Community Character Policy P3.5.
Tahoe City Area General Plan		
Community Development/Land Use		
Cultural Resources Policy 2. Evaluate project activities in light of potential adverse impacts on cultural resources and avoid such conflicts.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Project activities would avoid cultural resource sites to the extent possible. Where avoidance of these sites is not possible, the applicant would implement APMs CUL-01 through CUL-04, including preparation of a detailed test excavation plan to evaluate the sites that would be impacted, a data recovery plan for sites determined to be eligible, and a more detailed treatment plan for historic-era refuse deposits.
Conservation		
Geology Policy 1. Discourage development in areas subject to adverse environmental influences, such as slides or slope failures.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes	Geologic risks are addressed in Section 4.5, Geology, Soils, Land Capability and Coverage. Specifically, Impact 4.5-3 addresses soil hazards and finds that because a geotechnical study of the project area would be completed and recommendations from a

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
	Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	resulting Geotechnical Engineering Report would be implemented prior to construction, potentially expansive or unstable soils and slope instability would be identified and avoided, or mitigated through specialized construction methods. Therefore, this impact is less than significant.
Soils and Land Capability Policy 2. Continue to require review of grading activity through the Grading Permit process, and restricting grading activity between the dates of October 15 to May 1.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Impacts associated with water quality, erosion, and grading are addressed in Section 4.6, Hydrology and Water Quality. Specifically, Impact 4.6-2 addresses these issues and finds that this impact would be less than significant. Additionally, the applicant would be required to comply with the May 1 to October 15 grading season as a permit condition.
Hydrology, Stream Environment Zones and Water Quality Policy 2. The stream environment zone, here defined as the 100 year flood plain of any year-round watercourse, shall not be affected by development activities except as permitted by Policy 4 and 5.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Stream and waterways impacts are addressed in Section 4.7, Biological Resources. Specifically, Impact 4.7-2 addresses this policy finds that project implementation would result in direct removal and disturbance of sensitive habitats, including waters of the United States, waters of the state, riparian habitat, and SEZs. This impact would be significant. Mitigation Measures 4.7-2a would require the applicant to obtain and comply with a Lake and Streambed Alteration Agreement and 4.7-2b would require restoration of SEZ habitat with the Lake Tahoe Basin at a ratio of 1.5:1, consistent with TRPA Code. Additionally, APMs BIO-2, BIO-9, BIO-10, BIO-35, and BIO-37 would provide protection for these resources. Implementation of these mitigation measures, along with the APMs, would reduce the significant impacts on sensitive habitats to a less-than-significant level.
Hydrology, Stream Environment Zones and Water Quality Policy 3. Where the stream environment zone has previously been modified by channelization, fill, or other human activity, such areas shall be restored by means of landscaping, revegetation, or similar stabilization techniques as a part of development activities on adjoining properties.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Impacts associated with water quality, hydrology, and SEZ are addressed in Section 4.7, Biological Resources. Specifically, Impact 4.7-2 addresses this policy finds that project implementation would result in a significant impact. Mitigation Measures 4.7-2a would require the applicant to obtain and comply with a Lake and Streambed Alteration Agreement and 4.7-2b would require restoration of SEZ habitat with the Lake Tahoe Basin at a ratio of 1.5:1, consistent with

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
		TRPA Code. Additionally, APMs BIO-2, BIO-9, BIO-10, BIO-35, and BIO-37 would provide protection for these resources. Implementation of these mitigation measures, along with the APMs, would reduce the significant impacts on sensitive habitats to a less-than-significant level.
Hydrology, Stream Environment Zones and Water Quality Policy 4. Any crossings of a natural stream bed by road, trail or other transportation facility shall be accomplished so that the natural stream characteristics are not impaired.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	See the explanation above for Policy 3.
Hydrology, Stream Environment Zones and Water Quality Policy 5. Where development is proposed within a stream environment zone that has previously been disturbed, as described in Policy 3 above, it may be approved only if the decision-making body finds that it will: a. Not increase the obstruction of flood waters; and b. Not increase the potential for flood damage to other properties either up or down stream; c. Result in an overall improvement in water quality protection, and d. An overall improvement to the stream environment zone.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	See the explanation above for Policy 3.
Vegetation Policy 2. Revegetation of disturbed sites, as well as landscaping associated with new development, shall require the use of species approved by the County and TRP A. Species selection shall be made so as to de-emphasize long-term irrigation and fertilizer use.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	APMs BIO-23 and BIO-36 describe development of a Restoration Plan that would address final clean-up, stabilization, and revegetation procedures for areas disturbed by the project. The plan would include approved seed mixes, application rates, and application methods.
Vegetation Policy 3. All proposed actions shall consider the cumulative impact of vegetation removal with respect to plant diversity and abundance, wildlife habitat and movement, soil productivity and stability, and water quality	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road): Yes Alternative 4 (No Project): Yes (N/A)	Impacts associated with vegetation removal, plant diversity and wildlife habitat are addressed in Section 4.7, Biological Resources. This section addresses the cumulative impacts to biological resources and finds no significant impact when considered with the prescribed mitigation (Mitigation

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
and quantity.		Measure 4.7-4) for cumulative impacts to late seral/old growth forests.
Vegetation Policy 5. Uncommon plant communities and individual species shall be identified and protected for their natural values.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Rare plant impacts are addressed in Section 4.7, Biological Resources. Specifically, Impact 4.7-3 addresses this policy and finds that this impact would be less than significant. Additionally, APMs BIO-2, BIO-9, BIO-10, BIO-35, and BIO-37 would provide protection for these resources.
Wildlife and Fisheries Policy 1. All proposed activities shall consider impacts on wildlife and fisheries.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Wildlife and fisheries impacts are addressed in Section 4.7, Biological Resources. Specifically, Impacts 4.7-6, 4.7-7, 4.7-8, address this policy. Impact 4.7-6 addresses disturbance or loss of special status wildlife species and habitats and finds this impact to be less than significant. Impact 4.7-7 addresses impacts to fish and aquatic habitat and finds that there would be a potentially significant impact. Mitigation Measure 4.7-7 requires the applicant to obtain and comply with a lake and streambed alteration agreement. Implementation of this mitigation measure, along with the applicable APMs would reduce this impact to less than significant. Impact 4.7-8 addresses the effects on wildlife and fish movement corridors and finds this impact to be less than significant. Additionally, APMs BIO-1 through BIO-37, provide protection for biological resources.
Wildlife and Fisheries Policy 2. Endangered, threatened, rare, and special interest species shall be protected and buffered against conflicting land uses.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Impacts to federal and state-designated endangered, threatened, special status or candidate species are addressed in Section 4.7, Biological Resources. Specifically, Impact 4.7-6 addresses this policy and finds that this impact would be less than significant. Additionally, with implementation of APMs BIO-2, BIO-09 through BIO-17, and BIO-31, impacts to all identified federal or state-designated endangered, threatened, special status, or candidate species would be minimized to the greatest extent possible. Through the consultation process with the

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
		USFWS and CDFG, the project applicant would ensure that impacts to threatened and endangered species are minimized.
Safety		
Safety Policy 3. Review future development using all available seismic data and taking into account recommendations from the seismic safety element.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Geologic risks are addressed in Section 4.5, Geology, Soils, and Land Capability Coverage. Specifically, Impact 4.5-1 addresses seismic hazards and finds that this impact would be less than significant. Additionally, APM SOILS-2 addresses this issue by requiring a geotechnical report for final project design related to landslide, slope instability, seismic events, and all applicable seismic codes and standards.
Safety Policy 4. Prohibit construction, grading, and filling of lands within the 100-year flood plain and in the area of wave run-up except as necessary to implement the goals and policies of the plan. Require all public utilities, transportation facilities, and other necessary public uses located in the 100-year flood plain and area of wave run-up to be constructed or maintained to prevent damage from flooding and to not cause flooding.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Impacts associated with the 100-year flood plain are addressed in Section 4.6, Hydrology and Water Quality. Specifically, Impact 4.6-4 addresses these issues. Given the small footprint of the proposed facilities, placement of poles in the flood hazard area would not appreciably impede or redirect flood flows. This impact would be less than significant.
Noise		
Noise Policy 1. The adopted CNEL standards are to be observed, as identified in Table 4.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Noise impacts are addressed in Section 4.14, Noise. CNEL standards are used in the assessment of noise impacts. Long-term increases in operational noise would be a less-than-significant impact (see Impact 4.14-3). Impact 4.14-1 addresses short-term construction noise impacts to noise-sensitive receptors (such as residents) and finds that construction of project alternatives could result in a significant impact. Mitigation Measure 4.14-1 (Potential Construction Activities Outside Allowable Timeframes) is included to reduce the impact to a less-than-significant level. Impact 4.14-2 addresses short-term construction vibration impacts to noise-sensitive receptors (such as residents) and finds that construction of project alternatives would not result in a significant impact.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
Noise Policy 3. The CNEL for transportation corridors State Route 28 and 89 is established at 55 dB, measured 300 feet from the edge of right-of-way.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Noise impacts are addressed in Section 4.14, Noise. This policy is similar to Tahoe City Area General Plan Noise Policy 1. See consistency explanation for that policy, above.
Town of Truckee General Plan		
Land Use		
Land Use Policy P4.5: Require new infrastructure and development to be designed and built to manage stormwater runoff and to minimize or eliminate harmful impacts to property prone to flooding, water quality, and riparian, wetland, and meadow habitats. When infrastructure is replaced or retrofitted, require the upgrading of stormwater management systems to minimize or eliminate these impacts.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Impacts associated with flooding, stormwater runoff, and water quality are addressed in Section 4.6, Hydrology and Water Quality. Specifically, Impact 4.6-2 addresses these issues and finds that any increase in impervious surfaces associated with project activities would be relatively small with little potential to increase the amount or rate of stormwater runoff in a manner that would exceed the capacity of existing or planned stormwater drainages, infiltration, and treatment systems or facilities or cause detrimental flooding to property or infrastructure. In addition, all installations under the action alternatives would need to comply with stringent requirements for stormwater and erosion control contained in the Lahontan Water Quality Control Plan, the Lake Tahoe TMDL Program, and existing NPDES permits. Therefore, if adverse increases in runoff were possible in a particular area, compliance with these plans and programs would ensure that adverse effects were avoided. Therefore, this impact would be less than significant. Additionally, APMs WQ-1 through WQ-8 address water quality issues.
Land Use Policy P5.7: Require buffering, screening, setbacks, and other measures for new and expanded industrial uses adjacent to residential neighborhoods to minimize impacts and compatibility conflicts.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	The action alternatives involve the rebuild of existing transmission facilities in the Town of Truckee. All substation improvements within limits of the Town of Truckee would take place within parcels owned by the project applicant and all work would occur within the existing fence lines of those facilities. Therefore, the project would not create new compatibility conflicts.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
Community Character		
Community Character Policy P2.7: Require electric, telecommunications and cable television facilities serving new development to be installed underground wherever possible. Where undergrounding is impractical, above ground antennae and telephone and high voltage transmission lines shall be located out of significant scenic vistas.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	The action alternatives do not provide new development. The action alternatives involve the rebuild of existing power facilities in the Town of Truckee. All substation and switching station improvements within Town of Truckee city limits would take place within parcels owned by the project applicant and all work would occur within the existing fence lines of those facilities. As described in Chapter 3, Alternatives, an alternative was considered that would include significant portions of the 625 and/or 650 Lines underground ("undergrounding") to minimize the visibility of project facilities. Undergrounding, as a general rule, is five to six times more expensive than above ground installation of electrical lines. Undergrounding the 625 and/or 650 Lines (other than in relatively short stretches) would place a substantial burden on rate payers (potentially in the tens of millions of dollars), particularly in the area served by the North Lake Tahoe Transmission System, which has a relatively small ratepayer base. Undergrounding, other than to meet specific regulatory requirements (e.g., avoiding placement of towers near the Truckee Tahoe Airport), is considered cost prohibitive. In addition, undergrounding would trade reduced aesthetic impacts for potentially greater impacts on other environmental issue areas (e.g., cultural resources, construction noise, erosion potential). As a result, this option was eliminated from further review and consideration. Impacts to scenic resources are addressed in Section 4.4. Specifically, Impact 4.4-2 addresses scenic vistas and finds that the existing 625 and 650 Lines would be rebuilt using larger poles that would be more conspicuous than the existing line in views from certain public recreation areas, bike trails, and scenic roadway corridors. An increased visual presence of the rebuilt lines could fail to meet management targets for scenic quality established by local agencies. This impact would be potentially significant. Mitigation Measure 4.4-2 requires that transmission lines be located out of direct public view. Additionally, APM SCE-5 provides for landscape screening to reduce the project's potential visual impacts from SR 89 and the recreation trail (a

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
		TRPA scenic roadway unit and vista). Implementation of this mitigation measure and AMP would reduce impacts from increased visual exposure of the transmission lines from sensitive locations to a less-than-significant level because the rebuilt transmission lines would be less conspicuous than the existing lines.
Community Character Policy P2.8: Coordinate opportunities for undergrounding existing aboveground utilities with trenching for other utility maintenance and installation, and street improvements.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Based on information available at the time of preparation of this document, the project would not be constructed at the same time as any street improvements in the project area, and therefore, cannot be coordinated with these activities. See, also, explanation for consistency determination of Town of Truckee General Plan Community Character Policy P2.7, above.
Community Character Policy P2.10: Encourage the preservation of trees and native vegetation, including specimen trees, in development projects.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Impacts to trees and native vegetation are addressed in Section 4.7, Biological Resources. Specifically, Impact 4.7-4 addresses these issues and finds that implementing the project would result in substantial tree removal, as defined by TRPA, and could result in the loss of late seral/old growth forest stands, which could interfere with attainment of late seral/old growth forest threshold standards. Therefore, this impact would be significant. Mitigation Measure 4.7-4 requires that a tree survey be conducted, late seral/old growth forest be avoided, and that the project comply with all permit conditions. Additionally, APMs BIO-1 through BIO-37 address biological resources issues. Implementation of these mitigation measures, along with the APMs, would reduce the significant impacts associated with tree removal, conflict with county tree protection ordinances, and loss of late seral/old growth forest to a less-than-significant level because it would ensure that tree removal and old growth forest removal are avoided to the extent feasible and that the project proponent compensates for unavoidable losses.
Community Character Policy P3.5: Strongly discourage the installation of sound walls within the freeway and highway corridors. Instead, noise impacts should be minimized to the extent possible through project design and siting. When sound barriers are needed, use of earthen berms or	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes	The action alternatives do not include construction of sound walls as a project element. Temporary noise curtains may be used during potential construction activities outside allowable timeframes (see Mitigation Measure 4.14-1 in Section 4.14, Noise); however, these types of noise barriers would be used on

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
landscaping in place of sound walls should be used whenever feasible to minimize potential visual impact.	Alternative 5 (No Action/No Project): Yes (n/a)	a temporary basis and would not result in the same aesthetic impact as permanent sound walls.
Community Character Policy P4.2: Require light fixtures to be designed and sited so as to minimize light pollution, glare, and light trespass into adjoining properties.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	As described in Chapter 3, Alternatives, new lighting proposed as part of the project would only occur at the substations. It would be directed downward and on site in order to minimize off-site visibility and would be used on an as-needed basis during the operation and maintenance of the substations.
Community Character Policy P14.1: Preserve and enhance the open character and qualities of the Brockway Road Corridor by including appropriate buffering and screening from the road corridor, and interspersing development areas or nodes with green space.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Although the rebuilt 132 Line would cross Brockway Road, it is an existing power line that would be modified. Replacement structures visible from Brockway Road would generally appear similar in scale and form to existing structures.
Community Character Policy P19.1: As part of the development review process, require proper archaeological or paleontological surveying, testing, research, documentation, monitoring and safe retrieval of archaeological and cultural resources.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to the "Cultural Resources Guideline" in the Burton Creek State Park General Plan. See consistency explanation for that policy statement.
Community Character Policy P19.2: Require an archaeological survey by a qualified professional whenever there is evidence of an archaeological or paleontological site within a proposed project area, is determined to be a high likelihood for occurrence of such sites, or where a project involves substantial site disturbance.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to the "Cultural Resources Guideline" in the Burton Creek State Park General Plan. See consistency explanation for that policy statement.
Community Character Policy P19.3: Consult with representatives of the Native American community whenever necessary to ensure the respectful treatment of Native American sacred places.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes	As described in Section 4.9, Heritage, Cultural, and Paleontological Resources, in September 2007, the NAHC and the Washoe Tribe of Nevada and California were contacted about the proposed project. APM CUL-9 addresses accidental discovery of human remains that may be of Native American

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
	Alternative 5 (No Action/No Project): Yes (n/a)	origin.
Circulation		
Circulation Policy P3.2: Require the assessment of construction-related project impacts in traffic impact analyses that assesses and adequately mitigates the effect of construction traffic on the roadway network, as well as any potential disruption to or re-routing of traffic that might be needed during project construction.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Traffic impacts are addressed in Section 4.12, Traffic and Transportation. Specifically, Impact 4.12-1 and Impact 4.12-2 address construction traffic impacts. Impact 4.12-1 identifies temporary construction-related traffic as a significant impact to existing roadway operations or safety. Mitigation Measure 4.12-1a (Prepare a Traffic Control Plan) and Mitigation Measure 4.12-1b (Coordinate with United States Forest Service and California Department of Transportation to Design Facilities) are included to reduce this impact to a less-than-significant level. Additionally, APM AQ-12 describes that traffic would be controlled by flaggers or other methods, as necessary, to improve traffic flow along roadways in the project area. Additionally, APM AQ-13 states that construction activities in more populated areas would be scheduled during off-peak hours, to the extent practical, to minimize impacts to traffic flow.
Circulation Policy P12.1: Discourage truck traffic through residential areas and the Downtown, and instead encourage trucks to use Interstate 80 and State highways whenever possible.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Truck traffic would occur on I-80, SR 267, and SR 89, as well as some Town of Truckee roads such as Pioneer Trail, Glenshire Drive, and River View Drive. Although most truck traffic would occur outside of downtown and residential areas, these areas may be subject to temporary traffic disruptions. Warning signs and/or flagmen would be used to regulate traffic where necessary to maintain a safe transportation corridor during construction. Specifics of traffic disruption would be addressed through applicable right-of-way encroachment permits.
Conservation and Open Space		
Conservation and Open Space Policy P4.2: Protect sensitive wildlife habitat from destruction and intrusion by incompatible land uses where appropriate. All efforts to protect sensitive habitats should consider: 〉 Sensitive habitat and movement corridors in the areas adjacent to development sites, as well as on the development site itself.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Wildlife habitat impacts are addressed in Section 4.7, Biological Resources. Specifically, Impact 4.7-6 addresses wildlife habitat and finds with implementation of APMs to avoid, minimize, and compensate for impacts to wildlife resources generally and several special-status species specifically, the project is not expected to substantially affect the distribution, breeding productivity, viability, or the regional population of any special-

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
〉 Prevention of habitat fragmentation and loss of connectivity. 〉 Use of appropriate protection measures for sensitive habitat areas such as non-disturbance easements and open space zoning. 〉 Off-site habitat restoration as a potential mitigation, provided that no net loss of habitat value results. 〉 Potential mitigation or elimination of impacts through mandatory clustering of development, and/or project redesign.		status species. Therefore, this impact would be less than significant. Additionally, APMs BIO-2, BIO-9 through BIO-20, and BIO-31 would provide protection for these resources. Additionally, APMs BIO-11, BIO-13, BIO-17, BIO-26, BIO-27, BIO-28, BIO-30, and BIO-37 provide protection for sensitive habitat.
Conservation and Open Space Policy P4.5: Development shall be prohibited within established setback areas for streams and waterways other than the Truckee River, except as otherwise allowed in the Development Code; such setbacks shall be between 20 and 50 feet on parcels less than 175 feet deep (depending on parcel depth), and 50 feet on parcels 175 feet deep or more.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	See the explanations for Placer County General Plan Policies 1.I.2, 6.A.3, 6.C.9, 6.D.4, and 6.D.
Conservation and Open Space Policy P5.1: Require biological resource assessments for all development in areas where special status species may be present.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Special status species impacts are addressed in Section 4.7, Biological Resources. Specifically, Impacts 4.7-3 and 4.7-6 address this policy. Impact 4.7-3 addresses special status plants and finds that the APMs included in the project design would avoid, minimize, and compensate for potential adverse effects to special status plants. Therefore, this impact would be less than significant. Impact 4.7-6 address special status wildlife species and finds that with implementation of APMs to avoid, minimize, and compensate for impacts to wildlife resources generally and several special-status species specifically, the project is not expected to substantially affect the distribution, breeding productivity, viability, or the regional population of any special-status species. Therefore, this impact would be less than significant. Additionally, APMs BIO-2, BIO-9 through BIO-20, and BIO-31 would provide protection for these resources.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
Conservation and Open Space Policy P5.2: Protect native plant species in undisturbed portions of a development site and encourage planting and regeneration of native plant species wherever possible in undisturbed portions of the project site.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Native plant impacts are addressed in Section 4.7, Biological Resources. Impact 4.7-1 and Impact 4.7-2 addresses this policy. Impact 4.7-1 addresses common native habitats and finds that implementing the action alternatives would result in direct removal and disturbance of common habitat. However, implementing APMs would minimize impacts on common vegetation, ensuring the project would not substantially reduce the size, continuity, or integrity of any common vegetation community or habitat type. Therefore, this impact would be less than significant. Impact 4.7-2 addresses sensitive native habitats and finds that project implementation would result in direct removal and disturbance of sensitive habitats, including waters of the United States, waters of the state, riparian habitat, and SEZs. This impact would be significant. Mitigation Measures 4.7-2a would require the applicant to obtain and comply with a Lake and Streambed Alteration Agreement and 4.7-2b would require restoration of native riparian habitat with the Lake Tahoe Basin at a ratio of 1.5:1, consistent with TRPA code. Additionally, APMs BIO-2, BIO-9, BIO-10, BIO-35, and BIO-37 would provide protection for these resources. Implementation of these mitigation measures, along with the APMs, would reduce the significant impacts on sensitive native habitats to a less-than-significant level because it would ensure that sensitive habitat is avoided to the extent feasible and that sensitive habitats that cannot be avoided are restored following construction, or if the habitat cannot be restored, that the project proponent compensates for unavoidable losses in a manner that results in no net loss of sensitive habitats.
Conservation and Open Space Policy P5.3: Protect to the extent possible federal or State-designated endangered, threatened, special status or candidate species.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Impacts to federal and state-designated endangered, threatened, special status or candidate species are addressed in Section 4.7, Biological Resources. This explanation is similar to the explanation for Conservation and Open Space Policy P5.1.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
Conservation and Open Space Policy P5.4: Support efforts to eradicate invasive and noxious weeds and vegetation on public and private property.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	To support the efforts to eradicate invasive and noxious weeds and vegetation, the applicant would conduct a noxious weed inventory in the project area during the appropriate blooming period. In addition, APMs BIO-02 through BIO-08 would be implemented to minimize (and avoid where possible) the spread of invasive and noxious weeds during construction.
Conservation and Open Space Policy P6.2: Restrict permitted uses on lands mapped as important Mineral Resource Areas within the RC/OS land use designation to those compatible with mineral resource extraction activities.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Although portions of the project (along the 132/650 Line Double-Circuit) would be located in an area mapped as an important mineral resource area, the project would be located in an existing ROW with the in-kind replacement of poles.
Conservation and Open Space Policy P6.3: Restrict permitted uses on lands containing important mineral resources within the PUB land use designation to those compatible with mineral extraction, except in cases where such uses offer public benefits that outweigh those of resource extraction.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This policy is similar to Truckee General Plan Conservation and Open Space Policy P6.2. See consistency explanation above.
Conservation and Open Space Policy P11.2: Protect surface and groundwater resources from contamination from runoff containing pollutants and sediment, through implementation of RWQCB Lahontan Region's, Best Management Practices.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This explanation is similar to the explanation for Land Use Policy P4.5, above. Further, the project applicant would implement the BMPs outlined in the project's SWPPP during all stages of project construction to reduce water quality impacts. The SWPPP would be developed based on the RWQCB BMP Manual and the TRPA's BMP Manual. In the event of a conflict between the two plans, the more stringent measure would apply.
Conservation and Open Space Policy P11.5: Require new development projects that have the potential to impact local water quality through increased stormwater runoff or erosion to include analysis of water quality impacts as a component of project review, and to integrate mitigation measures that would reduce identified impacts to an acceptable level.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	This explanation is similar to the explanation for Land Use Policy P4.5, above.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
Conservation and Open Space Policy P11.7: Ensure that all proposed developments can be adequately served by available water supplies.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Water supply is addressed in Section 4.11, Public Services and Utilities. Specifically, Impact 4.11-3 addresses this policy and finds that overall project demand during construction and operation would be minor relative to existing available water supplies and that impacts to water supply would be less than significant.
Conservation and Open Space Policy P12.1: Preserve slopes of 30 percent of greater as open space and avoid slopes of 20 percent to 30 percent if there are other, more suitable areas for development with slopes less than 20 percent.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	The Town of Truckee has indicated that the stringing site proposed (under all action alternatives) on the north side of the Genshire Drive/Donner Pass Road intersection is located on steep slopes. The exact grade has not been determined at this time. To the extent practical and possible given engineering constraints, this stringing site will be relocated if slopes are determined to be greater than 20 percent.
Conservation and Open Space Policy P12.2: Require projects that require earthwork and grading, including cuts and fills for roads, to incorporate measures to minimize erosion and sedimentation. Typical measures include project design that conforms with natural contours and site topography, maximizing retention of natural vegetation, and implementing erosion control Best Management Practices.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	All construction projects in California greater than 1 acre in size are required to prepare and implement a detailed SWPPP that includes a site specific Construction Site Monitoring and Reporting Plan pursuant to the NPDES 2011 California General Permit for construction or in the case of the Tahoe basin, the Tahoe Construction Stormwater permit. The required SWPPP would provide for a description of construction activities and phases, proposed temporary and long-term erosion and sediment controls, means of waste containment and disposal, and BMP maintenance and monitoring requirements. Installation of temporary BMPs to protect water quality would be required before any earth disturbing activities and a pre-grade inspection and approval of those BMPs by the Lahontan Region (L) RWQCB and TRPA would have to take place before proceeding with any grading, pole installation and removal, or similar earth disturbing activities. All BMPs and water quality protection installations proposed in the SWPPP would need to be consistent with TRPA and LRWQCB requirements and would have to be evident that once installed and maintained any site runoff would not exceed TRPA or LRWQCB discharge limits for surface and groundwater sources and would preserve the beneficial uses of the Truckee River and Lake Tahoe.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
Conservation and Open Space Policy P13.3: Require all construction projects to implement dust control measures to reduce particulate matter emissions due to disturbance of exposed top-soils. Such measures would include watering of active areas where disturbance occurs, covering haul loads, maintaining clean access roads, and cleaning the wheels of construction vehicles accessing disturbed areas of the site.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	As described in APM AQ-1, the applicant would submit a Construction Emission/Dust Control Plan to the NSAQMD and PCAPCD for approval prior to ground disturbance or vegetation removal associated with construction of the proposed project. The Dust Control Plan shall summarize the APMs related to emissions control during construction. APMs AQ-2 through AQ-11 provide further direction to control dust.
Noise		
Noise Policy P2.1: Require mitigation of all significant noise impacts as a condition of project approval.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Noise impacts are addressed in Section 4.14, Noise. Impact 4.14-1 and 4.14-2 are identified as significant noise impacts. Additionally, APMs NOI-1 through NOI-11 provide further direction to reduce noise impacts.
Noise Policy P2.2: Require preparation of a noise analysis/acoustical study, which is to include recommendations for mitigation, for all proposed projects which may result in potentially significant noise impacts to nearby noise sensitive land uses such as residences.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Noise impacts are analyzed in Section 4.14, Noise. Long-term increases in operational noise would be a less-than-significant impact (see Impact 4.14-3). Impact 4.14-1 addresses short-term construction noise impacts to noise-sensitive receptors (such as residents) and finds that construction of project alternatives could result in a significant impact. Impact 4.14-2 addresses short-term construction vibration impacts to noise-sensitive receptors (such as residents) and finds that construction of project alternatives would not result in a significant impact.
Noise Policy P2.3: Require preparation of a noise analysis/acoustical study, which is to include recommendations for mitigation, for all proposed development within noise-impacted areas that may be exposed to levels greater than "normally acceptable."	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Noise impacts are addressed in Section 4.14, Noise. This policy is similar to Truckee General Plan Noise Policy P2.2. See consistency explanation for that policy, above. As described in Section 4.14 Noise, the project would be in compliance with the Town of Truckee's noise standards and would not expose any noise-impacted areas to levels greater than "normally acceptable."
Noise Policy P2.4: Discourage the construction of sound walls and require development projects to evaluate site design techniques, building setbacks, earthen berms, alternative	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes	Noise impacts are addressed in Section 4.14, Noise. This policy is similar to Truckee General Plan Community Character Policy P3.5. See consistency explanation for that policy, above.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
architectural layouts and other means to meet noise reduction requirements.	Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	
Noise Policy P3.2: Regulate noise from non-emergency construction activities through the Municipal Noise Ordinance.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Consistency with the Town of Truckee Municipal Noise Ordinance was considered in Section 4.14, Noise.
Noise Policy P3.13: Require the following standard construction noise control measures to be included as requirements at construction sites in order to minimize construction noise impacts. 〉 Equip all internal combustion engine driven equipment with intake and exhaust mufflers that are in good condition and appropriate for the equipment. 〉 Locate stationary noise generating equipment as far as possible from sensitive receptors when sensitive receptors adjoin or are near a construction project area. 〉 Utilize “quiet” air compressors and other stationary noise-generating equipment where appropriate technology exists. 〉 The project sponsor shall designate a “disturbance coordinator” who would be responsible for responding to any local complaints about construction noise. The disturbance coordinator will determine the cause of the noise complaint (e.g., starting too early, bad muffler, etc.) and will require that reasonable measures warranted to correct the problem be implemented. The project sponsor shall also post a telephone number for excessive noise complaints in conspicuous locations in the vicinity of the project site. Additionally, the project	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	The project applicant would implement all of these standard construction noise-control measures to minimize construction noise impacts through implementation of APMs NOI-5, NOI-6, NOI-7, and NOI-3.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
sponsor shall send a notice to neighbors in the project vicinity with information on the construction schedule and the telephone number for noise complaints.		
Safety		
Safety Policy P1.3: Require soils reports for new development in areas where geologic risks are known to exist. Such reports should include recommendations for appropriate engineering and other measures to address identified risks.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Geologic risks are addressed in Section 4.5, Geology, Soils, Land Capability and Coverage. Specifically, Impact 4.5-3 addresses soil hazards and finds that because a geotechnical study of the project area would be completed and recommendations from a resulting Geotechnical Engineering Report would be implemented prior to construction, potentially expansive or unstable soils and slope instability would be identified and avoided, or mitigated through specialized construction methods. Therefore, this impact is less than significant.
Truckee Downtown Specific Plan		
Land Use		
Truckee River Corridor Policy 11: All discretionary and ministerial projects next to the Truckee River must fully mitigate any adverse visual impacts through landscaping, fencing, and other screening. All outdoor storage in industrial areas visible from the Truckee River Corridor shall be prohibited.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Impacts to scenic resources are addressed in Section 4.4. Specifically, Impact 4.4-2 addresses scenic vistas and finds that The existing 625 and 650 Lines would be rebuilt using larger poles that would be more conspicuous than the existing line in views from certain public recreation areas, bike trails, and scenic roadway corridors. An increased visual presence of the rebuilt lines could fail to meet management targets for scenic quality established by local agencies. This impact would be potentially significant.
Public Services and Facilities		
Fire Protection Policy 2: Through the building permit review and approval process new development will be required to comply with Truckee Fire Protection District and Truckee Donner Public Utility District standards for Fire Protection.	Alternative 1 (PEA): Yes (n/a) Alternative 2 (Modified): Yes (n/a) Alternative 3 (Road Focused): Yes (n/a) Alternative 4 (Proposed): Yes (n/a) Alternative 5 (No Action/No Project): Yes (n/a)	New transformers, breakers, and poles would be added as part of project alternatives, but no new buildings are proposed. Fire protection is addressed in Impact 4.11-2 in Section 4.11, Public Services and Utilities. During the construction period, there would be a temporary increase in fire risk as a result of construction activities, which have the potential to ignite dry vegetation. A fire protection plan would be in place and a water truck would be available at all construction sites.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	Consistent? (Yes/No)	Explanation
Water, Power, and Sewer Service Policy 2: New development should be required to underground all secondary service lines providing electrical service to the development Incentives should be developed by the District to encourage the undergrounding of primary overhead lines associated with new development.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	See the explanation for the Town of Truckee General Plan Community Character Policy P2.7.
Water, Power, and Sewer Service Policy 4: Encourage the relocation of utility lines within common trenches.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Based on information available at the time of preparation of this document, the project would not be constructed at the same time as any street improvements in the project area, and therefore, cannot be coordinated with these activities. See, also, explanation for consistency determination of Town of Truckee General Plan Community Character Policy P2.7.
Water, Power, and Sewer Service Policy 5: Encourage the relocation of the Downtown Sierra Pacific Power and Truckee Donner Public Utility District substations outside of the Downtown Commercial Core. If relocation is infeasible upgrade the appearance of facilities by undergrounding and screening techniques such as fencing and landscaping to reduce the substations visual impact upon the Downtown area.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	For the project alternatives, upon completion of the loop upgrade, the origin of the 650 Line would be relocated from the Truckee Substation (in the Downtown area) to the North Truckee Switching Station (in an industrial area).
Water, Power, and Sewer Service Policy 6: New utilities should utilize existing railroad and river crossings wherever possible.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Segment 650-6 and 650-7 of the project alternatives are located in the boundaries of the Truckee Downtown Specific Plan. The alignments for all alternatives would utilize the existing 650 Line route and would therefore utilize existing railroad and river crossings.
Environmental Conservation		
Biological Resource Protection Policy 3: Riparian vegetation along the Truckee River and its tributaries shall be protected to realize benefits of erosion prevention, stream shade for fisheries and protection of wildlife habitat. Prior to any unavoidable removal of riparian vegetation adjacent to the	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes	Impacts associated with riparian, wetland, and meadow habitats are addressed in Section 4.7, Biological Resources. Specifically, Impact 4.7-2 addresses this issue and finds that project implementation would result in direct removal and disturbance of sensitive habitats, including waters of the United States,

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
Truckee River or its tributaries the California Department of Fish and Game shall be consulted for a determination of potential impacts and necessary mitigation measures.	Alternative 5 (No Action/No Project): Yes (n/a)	waters of the state, riparian habitat, and SEZs. This impact would be significant. Mitigation Measures 4.7-2a would require the applicant to obtain and comply with a Lake and Streambed Alteration Agreement and 4.7-2b would require restoration of SEZ habitat with the Lake Tahoe Basin at a ratio of 1.5:1, consistent with TRPA Code. Additionally, APMs BIO-2, BIO-9, BIO-10, BIO-35, and BIO-37 would provide protection for these resources. Implementation of these mitigation measures, along with the APMs, would reduce the significant impacts on sensitive habitats to a less-than-significant level because it would ensure that sensitive habitat is avoided to the extent feasible and that sensitive habitats that cannot be avoided are restored following construction, or if the habitat cannot be restored, that the project proponent compensates for unavoidable losses in a manner that results in no net loss of sensitive habitats. Additionally, APMs WQ-1 through WQ-8 address water quality issues.
Biological Resource Protection Policy 4: Projects adjacent to the Truckee River shall not result in an increase in the rate of water runoff and erosion. Prior to Town approval of public or private projects on parcels adjacent to the Truckee River or its tributaries an erosion control and river bank protection plan shall be prepared for review and approval by the Town Community Development Department and LRWQCB This plan shall include the site plan showing limits of ground disturbance and vegetation removal, erosion control measures, runoff containment measures, and any proposed revegetation or bank stabilization work.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	All construction projects in California greater than 1 acre in size are required to prepare and implement a detailed SWPPP that includes a site specific Construction Site Monitoring and Reporting Plan pursuant to the NPDES 2011 California General Permit for construction or in the case of the Tahoe basin, the Tahoe Construction Stormwater permit. The required SWPPP would provide for a description of construction activities and phases, proposed temporary and long-term erosion and sediment controls, means of waste containment and disposal, and BMP maintenance and monitoring requirements. Installation of temporary BMPs to protect water quality would be required before any earth disturbing activities and a pre-grade inspection and approval of those BMPs by LRWQCB and TRPA would have to take place before proceeding with any grading, pole installation and removal, or similar earth disturbing activities. All BMPs and water quality protection installations proposed in the SWPPP would need to be consistent with TRPA and LRWQCB requirements and it would have to be evident that once installed and maintained any site runoff would not exceed TRPA or LRWQCB discharge limits for surface and groundwater sources

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
		and would preserve the beneficial uses of the Truckee River and Lake Tahoe.
Historic Resources		
Subsurface Historic & Archaeological Policy 2: Prior to approval of any discretionary development resulting in disturbance of the ground an archaeological resource investigation will be required for the project site. The archaeologist will determine as part of the evaluation if there is a potential for archaeological or historic resources on the site. If so the archaeologist will conduct appropriate measures to identify and evaluate any resources including identifying the significance and extent of the resources. Such measures may include archaeological test excavations. If resources are significant a mitigation plan will be implemented to mitigate any significant impacts to the resource. Mitigation measures including financial limitations will conform with Appendix K of the California Environmental Quality Act Guidelines unless construction is undertaken with Federal funds in which case mitigation funding will comply with and be limited only by Federal standards and guidelines.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Cultural resources impacts are addressed in Section 4.9, Heritage, Cultural, and Paleontological Resources. Specifically, this policy is addressed by Impacts 4.9-1 and 4.9-2. Additionally, APMs CUL-1 through CUL-4 provide protection for cultural resources. This policy is similar to the “Cultural Resources Guideline” in the Burton Creek State Park General Plan. See consistency explanation for that policy statement.
Subsurface Historic & Archaeological Policy 3: In those cases where the potential for archaeological or historic resources on the site cannot be determined prior to project approval (e.g. a project involving demolition of a structure and construction of a new structure) a qualified archaeologist will be present on-site during all excavation activity including preliminary soil investigations and trenching for foundations utilities and grading. If items of historic or archaeological value are uncovered, work in the area of the discovery will be halted for a time period reasonable for the Town and archaeologist to analyze and assess the significance of the items. If necessary a mitigation plan to preserve or recover them will be prepared by the archaeologist. The archaeologist shall submit a report to the Community Development Department describing the findings.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Cultural resources impacts are addressed in Section 4.9, Heritage, Cultural, and Paleontological Resources. Specifically, this policy is addressed by Impact 4.9-1 and Impact 4.9-2. Additionally, APMs CUL-1 through CUL-4 provide protection for cultural resources. This policy is similar to the “Cultural Resources Guideline” in the Burton Creek State Park General Plan. See consistency explanation for that policy statement.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
Assistance Program Policies – Public Improvement Projects **Policy 19:** The Town in coordination with the Truckee Donner Public Utility District and other utilities should investigate the feasibility of undergrounding above-ground utility lines in the Historic Core area or a portion thereof and pursue undergrounding if feasible and if a funding mechanism is established.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	See the consistency explanation for the Town of Truckee General Plan Community Character Policy P2.7 as it relates to project construction in the Town of Truckee and undergrounding.
Truckee Airport Land Use Compatibility Plan		
Basic Compatibility Criteria: Compatibility Criteria for Land Use Actions		
Policy 3.1.1. Land Use Compatibility Criteria and Map: The basic criteria for assessing whether a land use plan, ordinance, or development proposal is to be judged compatible with the Truckee Tahoe Airport are set forth in the Basic Compatibility Criteria matrix, Table 2A. These criteria are to be used in conjunction with the Truckee Tahoe Airport Compatibility Map, Figure 2A. The factors considered in delineation of the compatibility zones depicted in Figure 2A are summarized in Table 2B.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	Project components for the build alternatives are located within compatibility zones C (all alternatives), D (all alternatives), E (all alternatives), and B1 (Alternative 3 only). Consistency of the project alternatives with the requirements and restrictions in the Truckee-Tahoe Airport Land Use Compatibility Plan, including this policy, is addressed in Section 4.10, Hazards and Hazardous Materials. Specifically, Impact 4.10-5 addresses this issue and finds that although new power poles would replace existing poles, and no new poles would be placed within different or more sensitive compatibility zones (except Alternative 3), implementation of the action alternatives would place power poles in the Airport Influence Area that are taller than existing towers. Depending on site-specific conditions, such as proximity to the runway and topography at the pole site, installing poles that are taller than the existing poles could generate a safety hazard for aircraft entering or leaving the runways, which could also present a hazard to people residing or working in the project area. This impact is considered potentially significant. Mitigation Measure 4.10-5 requires that electrical lines be undergrounded in areas where poles are classified as a hazard to flight. Implementation of this mitigation measure would result in compliance with the Truckee-Tahoe Airport ALUCP, would prevent transmission poles from generating a potential safety hazard for aircraft entering or leaving the runways, and would therefore also prevent a hazard from aircraft to people residing or working in the project area by installing the electrical line underground in locations where the ALUCP considers the poles a

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
		"hazard to flight." In this way, the action alternatives would comply with the ALUCP and this impact would be reduced to a less-than-significant level.
Policy 3.1.5. Prohibited Uses: Regardless of usage intensity, certain types of uses are deemed unacceptable within portions of an airport influence area. See Policy 4.2.3 and Table 2A. In addition to these explicitly prohibited uses, other uses will normally not be permitted in the respective compatibility zones because they do not meet the usage intensity criteria.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	See explanation above for Policy 3.1.1.
Policy 3.1.6. Other Development Conditions: All types of proposed development shall be required to meet the additional conditions listed in Table 2A for the respective compatibility zone where the development is to be located. Among these conditions are the following: (a) Avigation Easement Dedication: See Policy 4.3.5. (b) Overflight Easement Dedication: See Policy 4.4.3. (c) Real Estate Disclosure: See Policy 4.4.2. (d) Noise Level Reduction: See Policy 4.1.6. (e) Airspace Review: See Policy 4.3.3.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	See explanation above for Policy 3.1.1.
Basic Compatibility Criteria: Site-Specific Exceptions		
Policy 3.4.1. Central Truckee Redevelopment Area: The criteria set forth in Table 2A notwithstanding, the following policies shall apply within the portion of *Zone D* designated with a (1) symbol on Figure 2A: (a) Intensity limits for nonresidential development in this area shall be as follows: 〉 300 people per acre on average for the entire area; and 〉 1,200 people per any single one-acre portion of the area. (b) Any new structures shall be limited to no more than three aboveground habitable floors and, to the extent feasible,	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	While the Truckee Substation is located in this special area, the provisions in the policy do not appear to apply to this type of project, which involves modifications to existing power facilities, as opposed to a new development.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
should incorporate other design features that would help protect the building occupants in the event of a small-aircraft crash. Examples of such features include: 〉 Using concrete construction; 〉 Limiting the number and size of windows; 〉 Upgrading the strength of the building roof; 〉 Avoiding skylights; 〉 Enhancing the fire sprinkler system; and 〉 Increasing the number of emergency exits. (c) This special policy shall apply only to the location indicated and not to any other locations within the Truckee Tahoe Airport influence area. Specific factors concerning this site which warrant an exception to the basic compatibility criteria include the following: 〉 At a distance of 7,000+ feet from the runway end, the site is in an area of low risk exposure to aircraft accidents. 〉 The defined noise-abatement departure route for Runway 28 minimizes aircraft overflight of the site. 〉 The elevation is nearly 100 feet below that of the runway. 〉 The location immediately adjoining a main trans-Sierra rail line warrant that measures to mitigate noise and safety impacts be taken irrespective of the airport compatibility concerns. 〉 The site is both historically significant and highly important to the redevelopment of central Truckee.		
Supporting Compatibility Criteria: Safety		
Policy 4.2.3. Land Uses of Special Concern: Certain types of land uses represent special safety concerns irrespective of the number of people associated with those uses. Land uses of particular concern include: (c) Hazardous Materials Storage: Construction of facilities for	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes	See the explanation above for Policy 3.1.1.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
the manufacture or storage of fuel, explosives, and other hazardous materials within the airport environs is restricted as follows: (1) Within Compatibility Zone A, manufacture or storage of any such substance is prohibited. (2) Within Compatibility Zones B1 and B2, only the following is permitted: 〉 Fuel or hazardous substances stored in underground tanks. 〉 On-airport storage of aviation fuel and other aviation-related flammable materials. 〉 Aboveground storage of less than 6,000 gallons of non-aviation flammable materials (this limit coincides with a break-point used in the Uniform Fire Code to distinguish between different classes of tanks). (3) Within Compatibility Zone C, manufacture or storage of hazardous materials other than the types listed in Sub-policy (2) above is prohibited unless no other feasible alternative site exists and the facility is designed in a manner that minimizes its susceptibility to damage from an aircraft accident. (d) Critical Community Infrastructure: (1) Construction of critical community infrastructure shall be restricted as follows: 〉 Within *Compatibility Zone A,* all such uses are prohibited. 〉 Within *Compatibility Zones B1* and *B2*, such uses are prohibited unless no other feasible alternative site exists and the facility is designed in a manner that minimizes its susceptibility to damage from an aircraft accident. (2) Critical community infrastructure includes power plants, electrical substations, public communications facilities and other facilities, the damage or	Alternative 5 (No Action/No Project): Yes (n/a)	

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
destruction of which would cause significant adverse effects to public health and welfare well beyond the immediate vicinity of the facility. Susceptibility of the facility to damage by an aircraft accident, the availability of redundant or replacement facilities, the rapidity with which the facility could be repaired, and other such factors should all be considered in the determination of whether such a facility should be placed in a risky location. (e) Discouraged Uses: Uses listed under Policy 4.2.3(a) and in Table 2A as "discouraged" should generally not be permitted unless no feasible alternative is available. Expansion of a discouraged use is generally regarded as acceptable to the extent that previous acquisition and partial development of the site for that specific use make alternatives for expansion infeasible. Usage intensity limits and/or other criteria applicable to the site shall remain in effect.		
Policy 4.2.4. Open Land: In the event that a light aircraft is forced to land away from an airport, the risks to the people on board can best be minimized by providing as much open land area as possible within the airport vicinity. This concept is based upon the fact that the majority of light aircraft accidents and incidents occurring away from an airport runway are controlled emergency landings in which the pilot has reasonable opportunity to select the landing site. (a) To qualify as open land, an area should be: (1) Free of most structures and other major obstacles such as walls, large trees or poles (greater than 4 inches in diameter, measured 4 feet above the ground), and overhead wires. (2) Have minimum dimensions of approximately 75 feet by 300 feet. (b) Roads and automobile parking lots are acceptable as open land areas if they meet the above criteria. (c) Open land requirements for each compatibility zone are to	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	See the explanation above for Policy 3.1.1.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
be applied with respect to the entire zone. Individual parcels may be too small to accommodate the minimum-size open area requirement. Consequently, the identification of open land areas must initially be accomplished at the general plan or specific plan level or as part of large (10 acres or more) development projects. (d) Clustering of development, subject to the limitations noted below, and providing contiguous landscaped and parking areas is encouraged as a means of increasing the size of open land areas. (e) Building envelopes and the airport compatibility zones should be indicated on all development plans and tentative maps for projects located within the Truckee Tahoe Airport influence area. Portraying this information is intended to assure that individual development projects provide the open land areas identified in the applicable general plan, specific plan, or other large-scale plan.		
Supporting Compatibility Criteria: Airspace Protection		
Policy 4.3.1. Policy Objective: Tall structures, trees, and other objects, particularly when located near airports or on high terrain, may constitute hazards to aircraft in flight. Federal regulations establish the criteria for evaluating potential obstructions. These regulations also require that the Federal Aviation Administration be notified of proposals for creation of certain such objects. The FAA conducts "aeronautical studies" of these objects and determines whether they would be hazards, but it does not have the authority to prevent their creation. The purpose of ALUC airspace protection policies, together with regulations established by local land use jurisdictions and the state government, is to ensure that hazardous obstructions to the navigable airspace do not occur.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	See explanation above for Policy 3.1.1.
Policy 4.3.3. ALUC Review of Height of Proposed Objects: Based upon FAA criteria, proposed objects that would exceed the heights indicated below for the respective compatibility zones potentially represent airspace obstructions issues.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes	See explanation above for Policy 3.1.1.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
Development proposals that include any such objects shall be reviewed by the ALUC. Objects of lesser height normally would not have a potential for being airspace obstructions and therefore do not require ALUC review with respect to airspace protection criteria (noise, safety, and overflight concerns may still be present). Caution should be exercised, however, with regard to any object more than 50 feet high proposed to be located on a site that is substantially higher than surrounding terrain. (a) Within *Compatibility Zone A*, the height of any proposed development, including vegetation, requires review. (b) Within *Compatibility Zones B1* and *B2*, ALUC review is required for any proposed object taller than 35 feet unless the airport controls an easement on the land on which the object is to be located and grants a waiver to height restrictions. (c) Within *Compatibility Zone C*, ALUC review is required for any proposed object taller than 50 feet. (d) Within *Compatibility Zones D* and *E*, ALUC review is required for any proposed object taller than 100 feet. Such objects also require Federal Aviation Administration (FAA) review in accordance with the provisions of FAR Part 77. (e) Within the *Height Review Overlay Zone*, ALUC review is required for any proposed object taller than 35 feet above the ground. The approximate extent of the *Height Review Overlay Zone* is indicated on the Truckee Tahoe Airport Compatibility Map, Figure 2A.	Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	
Policy 4.3.4. Height Restriction Criteria: The height of objects within the airport influence area shall be reviewed, and restricted if necessary, according to the following criteria. The locations of these zones are depicted on the Compatibility Map, Figure 2A. (a) Within *Compatibility Zone A*, the height of all objects shall be limited in accordance with applicable Federal Aviation Administration criteria including FAR Part 77, TERPS,	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	See explanation above for Policy 3.1.1.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
and/or airport design standards. (b) Within *Compatibility Zones B1*, *B2*, or *Height Review Overlay Zone*: 〉 Objects up to 35 feet tall are acceptable and do not require ALUC review for the purposes of height factors. 〉 ALUC review is required for any proposed object taller than 35 feet. 〉 Federal Aviation Administration review may be necessary for proposed objects adjacent to the runway edges and the FAA may require marking and lighting of certain objects (the affected areas are generally on airport property). (c) Within *Compatibility Zone C*, generally, there is no concern with regard to any object up to 50 feet tall unless it is located on high ground or it is a solitary object (e.g., an antenna) more than 35 feet taller than other nearby objects. (d) Within *Compatibility Zones D* and *E*, generally, there is no concern with regard to any object up to 100 feet tall unless it is located on high ground or it is a solitary object (e.g., an antenna) more than 35 feet above the ground.		
Policy 4.3.5. Avigation Easement Dedication: As a condition for development approval, the owner of any property proposed for development within *Compatibility Zones A*, *B1*, or *B2* or a *Height Review Overlay Zone* shall be required to dedicate an aviation easement to the entity owning the affected airport. The aviation easement shall: (a) Provide the right of flight in the airspace above the property; (b) Allow the generation of noise and other impacts associated with aircraft overflight; (c) Restrict the height of structures, trees and other objects; (d) Permit access to the property for the removal or aeronautical marking of objects exceeding the established	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	See explanation above for Policy 3.1.1. Also, since the applicant would not receive development approval without designation of an aviation easement, the project would comply with this policy. In addition, as required by Mitigation Measure 4.10-5, the power lines would be undergrounded in areas where poles are classified as a hazard to flight.

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
height limit; and (e) Prohibit electrical interference, glare, and other potential hazards to flight from being created on the property. An example of an avigation easement is provided in Appendix G.		
Policy 4.3.6. FAA Notification: Proponents of a project involving objects that may exceed a Part 77 surface must notify the Federal Aviation Administration as required by FAR Part 77, Subpart B, and by the Public Utilities Code, Sections 21658 and 21659. (Notification to the Federal Aviation Administration under FAR Part 77, Subpart B, is required even for certain proposed construction that does not exceed the height limits allowed by Subpart C of the regulations. Refer to Appendix B for the specific Federal Aviation Administration notification requirements.) (a) Local jurisdictions shall inform project proponents of the requirements for notification to the Federal Aviation Administration. (b) The requirement for notification to the Federal Aviation Administration shall not necessarily trigger an airport compatibility review of an individual project by the Airport Land Use Commission if the project is otherwise in conformance with the compatibility criteria established herein. (c) FAA review is required for any proposed structure more than 200 feet above the surface level of its site. All such proposals also shall be submitted to the ALUC for review regardless of where within the jurisdiction of the Foothill ALUC they would be located. (d) Any project submitted to the ALUC for airport land use compatibility review for reason of height-limit issues shall include a copy of FAR Part 77 notification to the Federal Aviation Administration and the FAA findings if available.	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	See explanation above for Policy 3.1.1. Since the applicant must comply with FAR Part 77 notification to the Federal Aviation Administration, as a condition of ALUCP review, this project would comply with Policy 4.3.6.
Policy 4.3.7. Other Flight Hazards: New land uses that may cause visual, electronic, or increased bird strike hazards to	Alternative 1 (PEA): Yes Alternative 2 (Modified): Yes	See explanation above for Policy 3.1.1. As required by Mitigation Measure 4.10-5, the transmission lines would be undergrounded

Table G3-1. Consistency with Other Land Use Plans		
Policy/Objective Description	**Consistent? (Yes/No)**	**Explanation**
aircraft in flight shall not be permitted within the Truckee Tahoe Airport influence area. Specific characteristics to be avoided include: (a) Glare or distracting lights which could be mistaken for airport lights; (b) Sources of dust, steam, or smoke which may impair pilot visibility; (c) Sources of electrical interference with aircraft communications or navigation; and (d) Any proposed use, especially landfills and certain agricultural uses, that creates an increased attraction for large flocks of birds. (Refer to FAA Order 5200.5A, *Waste Disposal Sites on or Near Airports* and Advisory Circular 150/5200-33, *Hazardous Wildlife Attractants On or Near Airports.)*	Alternative 3 (Road Focused): Yes Alternative 4 (Proposed): Yes Alternative 5 (No Action/No Project): Yes (n/a)	in areas where poles are classified as a hazard to flight. In addition, no changes to lighting are proposed for the Truckee Substation.

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Appendix H

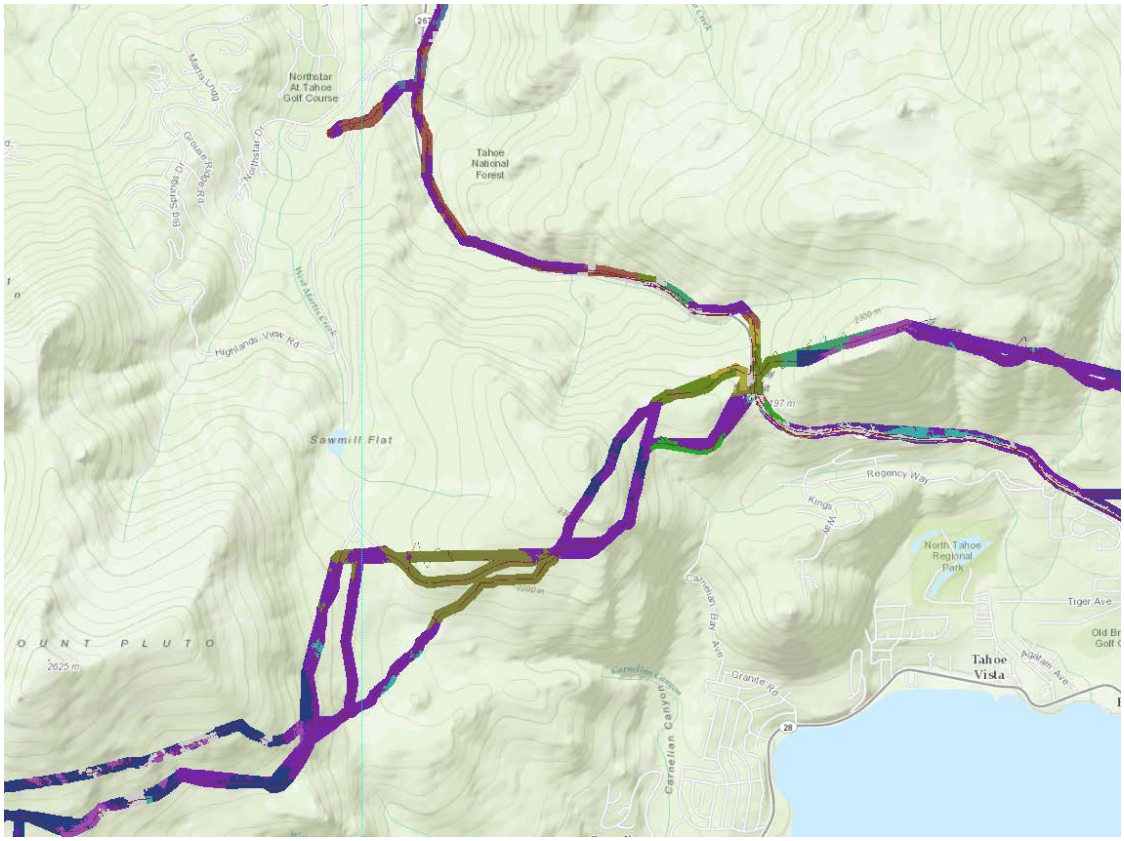
Supplemental Forestry and Vegetation Management Report

Forester's Co-Op
Professional Forestry &
GIS - Geographic Information Services

Calpeco 625 and 650 Electrical Line Upgrade Project

Supplementary Forestry and Vegetation Management Report

May 20, 2013



Prepared by:
Tom Amesbury, RPF #2253
Forester's Co-Op
415 Colfax Ave
Grass Valley, CA 95945
(530) 273-8326
www.forco-op.com

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Forester's Co-Op
Professional Forestry &
GIS - Geographic Information Services

Disclaimer:

All data and analytical figures contained in this document are estimations based on a spatial vegetation models using USFS R5 Vegetation Inventory Data available at; (http://www.fs.usda.gov/detail/r5/landmanagement/resourcemanagement/?cid=stelprdb5350981), Forest type stratification data was derived from the USFS R5 EVEG/CALVEG data set available at; (http://www.fs.usda.gov/detail/r5/landmanagement/resourcemanagement/?cid=stelprdb5347175), combined with previous Calpeco hazard tree surveys on a nearby existing powerline. No field-verified survey data sets were used for this report. Data in this report is provided for the purposes of project comparison purposes *only*. Any use of the data beyond its scope may result in a misrepresentation of the Project or actual on-the-ground conditions. We attempted to use the most current and complete geospatial data available. Forester's Co-Op (FCO) does not claim responsibility for the accuracy or completeness of this data. Using these maps or data for other than their intended purpose may yield inaccurate or misleading results. We reserve the right to correct, update or modify data inputs analysis without notification. Many data sets provided to FCO by the project team are of unspecified origin. Because it is beyond our scope of work to bona fide these data set origins, FCO shall not be held liable for improper or incorrect use of the data described and/or contained herein. These data sets are not legal documents and are not intended to be used as such. The information contained in these data is dynamic and may require future updating to account for vegetation growth and or site disturbance. It is the responsibility of the user to use the data appropriately and consistent within its limitations. FCO gives no warranty, expressed or implied, as to the accuracy, reliability, or completeness of these data. This disclaimer applies both to individual use of the data and their aggregate use with other data. Utilizing data from this page indicates your understanding and acceptance of the terms described above. For additional information, please contact Forester's Co-Op at 530-273-8326 or info@forco.com.

I. Introduction

In March of 2013, Liberty Utilities, California Pacific Electric Company (Calpeco) executed a contract with Forester's Co-Op (FCO) to assist in providing forestry-related information and assessment as requested by parties participating in the creation of a multi-jurisdictional environmental document for a proposed upgrade of existing electrical facilities in the North Lake Tahoe area. This project is referred to as the Calpeco 625 and 650 Electrical Line Upgrade Project (Project).

The impetus for this supplemental report was the requirement of a forest resource impact assessment to meet regulatory standards for this type of Project as requested by the various participating agencies. Meetings were conducted between our staff, Calpeco, US Forest Service, Lake Tahoe Basin Management Unit, TriSage Consulting, and Ascent Environmental to identify necessary components of the analysis for the draft EIR/EIS being created by Ascent Environmental.

Forestry related field-verified inventory data for the Project Alternatives currently does not exist. Members of the discussions collaborated to make a decision on what data currently existed that could be used to provide forestry related information that could be used in the EIR/EIS document to compare Project Alternatives. The data chosen included US Forest Service Region 5 Vegetation Inventory Data, USFS North Sierran Zone 3 CALVEG/EVEG data, Project Alternative specific GIS data provided by Ascent Environmental, and sample hazard tree data related to a nearby 120 kilovolt electrical line provided by Calpeco.

II. Forest & Vegetation Clearance Impact Analysis Discussion

The following report offers an impact discussion and a detailed analysis of site specific 625 and 650 Electrical Line Upgrade Project Alternatives, associated with tree harvesting and other vegetation removals required for independent project Alternative implementation. Each of the considered project Alternatives will require a unique acreage of forestland conversion for the powerline right-of-way (ROW), the stringing sites, and new road construction. The "No Project" Alternative is also assessed for forestland conversion from an increase in ROW width. Additionally, each considered project Alternative will require a unique borderzone acreage assessment area (150 feet on either side of the powerline centerline) where powerline hazard trees will be removed and continue to be mitigated prior to line construction and over the life of the project. Project Alternatives traverse Federal, State, and private ownership that lie both within the Tahoe Basin and are subject to Tahoe Regional Planning Agency (TRPA) regulations and north outside of the Basin. Tree vegetation will be removed in either of two forms: merchantable logs or chipped biomass.

III. Timber Harvest & Vegetation Management Activities

1. Forestland Conversion and Timber Harvesting
Pursuant to California Forest Practice Regulation, a Timberland Conversion Permit (TCP) and subsequent Timber Harvest Plan will be required for approval by Cal Fire prior to project implementation.

a) Timberland Conversion Permit Requirement Outline

Application process for Timberland Conversion Permit where Local Agency is CEQA Lead:

- Application submitted to appropriate Cal Fire Office ($600 fee) – forwarded to Sacramento
- Proof of local government approval and CEQA compliance submitted with application
- Local agency CEQA doc must have gone to State Clearinghouse for State agency review (CCR § 15205)
- Director may approve TCP as responsible agency tiering off of lead local agency CEQA document
- Conversion permit must be issued prior to THP approval – Cal Fire Director's signature
- Operations cannot commence until TCP is recorded at County Recorder's Office

b) The Timber Harvesting Plan (THP) Outline

A THP is an environmental compliance document that permits timber harvesting and reforestation projects within the State of California pursuant to CEQA compliant to the California Forest Practice Rules (referred to as "FPR" in this report), Title 14, California Code of Regulations, Chapters 4, 4.5, and 10. The THP approval process is subject to the TRPA Code of Ordinances and agency review on lands within the Tahoe Basin. The THP will be tiered off of the environmental information and mitigations set forth in the EIS/EIR. The California Department of Forestry and Fire Protection (Cal Fire) is the state lead agency for THP review, approval, and regulatory compliance. The THP must be written by a Registered Professional Forester (RPF), a forestry professional that is licensed to practice forestry within the State of California by Cal Fire. The purpose of the THP is to provide a project plan that conforms to the California Forest Practice Rules, and to provide direction to the Licensed Timber Operator (LTO), who is hired to implement the THP. Pursuant to the California Forest Practice Rules, the THP requires the RPF to provide description, justification, location, and temporality of all road system use, harvesting and associated activities including mitigations proposed in the Plan, as well as a diverse resource assessment and cumulative effects analysis within the plan area. An approved THP is valid for five years with the possibility of one two-year extension. The THP document may provide for the inclusion of multiple landowners under a single Plan, therefore it is anticipated that only one THP will be required for the private/state-managed land harvesting activities associated with the construction any new Segments of power lines.

A comprehensive GHG analysis is also required as a component of the THP. This includes accounting for all emissions associated with timber harvest activities and GHG sequestration

pools for wood products in use including mill efficiencies and wood stored in solid waste disposal sites as well as biomass utilization for energy (displacing fossil fuel use). A similar analysis is required under NEPA for timber harvesting operations on USFS land.

c) Private Land Timber Ownership Chain of Custody

Standardized log sale accounting practices within the timber industry shall be adhered to for the sale and shipment of forest products derived off of private and state-managed lands within the approved project area. These practices include sale preparation tree marking paint color designation by landowner and inventory separation by landowner. Log brands and trip accountability tickets shall be assigned to each unique landowner for separate accounting purposes. Accountability for all products shipped will be maintained utilizing log scaling tickets and delivery receipts from purchasers for each unique landowner. Concurrent to harvesting, monthly accounting statements will be provided for each landowner.

d) Forestland Conversion and Timber Harvesting on Federally-Managed Land (USFS)

All timber or vegetation management related activity shall be carried out in compliance with NEPA requirements and any associated Special Use Permits as authorized for the Project.

e) Federal Land Timber Ownership Chain of Custody Discussion

All timber removed from USFS lands will be accounted for as per these agency standards and regulations. Tahoe National Forest, Lake Tahoe Basin Management Unit, and USDA Forest Service Region 5 standards for log accountability and chain of custody will be adhered to during forestry related activities.

f) ROW, Stringing Site, and New Road Forestland Conversion Harvest Systems and Implementation

Unique forestland conversion acreage for each project Alternative has been calculated. The two planned harvest systems to be employed are ground-based tractor and aerial helicopter harvesting. Ground-based operations will occur where compliant with FPR, TRPA, and USFS. Helicopter harvesting will occur on all other areas where tree removal is required that exceed those ground-based specifications. Whole tree yarding to the landings will occur throughout the entire project area. Vegetation management activities will be completed prior to facility construction, allowing for physical preparation of construction of the power line. All hazard reduction tree removal, vegetative fuels management, erosion control mitigations, etc. shall be completed prior to the start of any on-the-ground construction activities. It is anticipated that the actual line construction activities will be implemented the year following vegetation management activities.

Timber Harvest Plan and Forest Service Timber Sale associated roads are included in the NEPA/CEQA environmental review process for THP and USFS Timber Sales. This includes roads that are chosen for abandonment and closure. Wherever feasible, ground-based log

skidding will be focused within the designated Right-Of-Way. Wherever feasible, private and public road systems will use the EIS/EIR planning-specific infrastructure, such as staging areas and stringing sites for log landing sites, and the project access road system. A post-treatment residual vegetative cover consisting of a mosaic of live brush, grasses, and forbs will be retained throughout the ROW where it does not impede construction activities.

g) Hazard Tree Removals & Other Treatments in the Borderzone

A unique project Alternative "borderzone" acreage assessment area has been identified that lies adjacent to each of the project Alternatives. Collaborative discussions carried out amongst the interested parties determined this borderzone to include a 150 foot buffer strip from the centerline of each Project Alternative be assessed for the potential for hazard trees to exist. A Timberland Conversion Permit is not required for the borderzone as the zone will remain forested, but it will need to be included in the THP for the removal and potential sale of logs. Borderzone hazard trees for the chosen Project Alternative shall be removed, and slash shall either be processed at a landing if whole tree yarding is possible, or shall be lopped and scattered on site to a height per the California Forest Practice Rules, USFS specifications, or TRPA Code of Ordinances (inside the Basin). Alternative treatments to hazard tree mitigation will be considered, such as fell and leave in place or topping of tree and lopping and scattering of slash material.

As was discussed during collaboration, the standard used for Hazard Tree Identification for the Project will be "Hazard Tree Guidelines for Forest Service Facilities and Roads in the Pacific Southwest Region" (Report # RO-12-01) authored by Angwin, Cluck, Zambino, Oblinger, Woodruff.

h) Public Safety During Vegetation Management Operations

Where public recreation trails cross or are within the approved routes ROW, borderzone and other project related activity clearance areas, temporary intermittent trail/recreation area closures shall be required and enforced during active timber operations to maintain public safety. All relevant Occupational Health and Safety Administration (OSHA) requirements must be adhered to. Adequate public notice will be given prior to closure at trail heads. Specific location trail closure signage and active onsite patrols shall be employed to restrict unauthorized public access during active timber operations. It is expected that these restrictions will only be in place for one day per each specific crossing location. Weekends and holidays would be avoided for any restrictions and timber operational hours could be adjusted to accommodate recreation. Helicopter flight paths may also fall into these restrictions as needed for vegetation removal activities and construction activities depending on the chosen Alternative and associated proximity to trails or recreational use areas.

i) Treatment of Non-merchantable Material and Activity Fuels

A primary focus of the vegetation management related activities shall be to treat and remove hazardous fuels from construction work areas. Prior to starting construction and/or maintenance

work on the Project, brush and dead and decaying vegetation that would pose a fire hazard from the work area shall be cleared or removed. The work area includes the construction staging areas, stringing and pulling sites, access roads, parking pads, remote helicopter construction sites, helicopter fueling/maintenance sites and any other sites adjacent to the ROW where personnel are active or where equipment is in use or stored. For ground-based construction, cleared vegetation may either be removed or chipped and spread onsite.

Where sensitive resource limitations do not exist all slash generated from the creation of new ROW's, staging areas, roads, and pulling sites shall be removed for utilization off-site. A minor component of biomass chips may be utilized on site where soil stabilization is needed. Access road shoulder brush mastication material shall be left on site.

All treatment non-merchantable materials and activity fuels located on State or privately owned lands must be in accordance with the requirements set forth in the FPR Chapter 4 Article 7 "Hazard Reduction" for the "Northern Forest District" outside of the Basin and for the "Southern Forest High Use Subdistrict" inside the Basin.

All treatment of non-merchantable materials and activity fuels must be treated and or removed from site in a manner that is acceptable with US Forest Service and Cal Fire standards. Residual post treatment surface fuel loads left on site shall be maintained at levels equal to or less than 10 tons per acre for areas outside of SEZ's. Residual post treatment surface fuel load within SEZs or Protected Activity Centers (PACs) shall be treated by hand work so as to not to exceed levels of 15 tons per acre. Where chip materials must be left on site, chip depth must not exceed 4 inches and must be evenly dispersed across the forest floor. Chip materials should not be left within SEZs. Where non-merchantable materials must be left on site, lop and scatter techniques may be used. This activity should be limited to areas where activity fuels are lightly distributed across the landscape and where retention activity fuels do not exceed tons per acre standards for acceptable fuel loading. Slash depth from lop and scatter activities shall not exceed 18 inches in height and should be spread in a non-contiguous manner not exceeding the specified surface fuel load specifications listed above. Where feasible, all harvest slash material located within 150 feet of high public use and travel areas should be removed.

IV. Forest Resource Modeling Impact Analysis Scope for Tree Removal Estimations

As a part of the Project's forestry-related analysis, the volume of tree removal has been estimated using the agreed upon methodology for each project Alternative, including areas that will require 100% conversion (new ROWs, new roads, and stringing sites) and borderzone (150 feet of the centerline) hazard trees. Estimations of 100% conversion areas were created by merging USFS EVEG/CALVEG spatial vegetation stratification data for all project areas with USFS forest inventory data for inside and outside the Tahoe Basin. Hazard tree estimations are based on Fall 2009 hazard tree data for the Calpeco owned132 Line (120 kilovolt power line). This data was then linked to the EVEG/CALVEG stratification.

Field-verified inventory data for the Project does not exist, so a systematic methodology for estimating volumes based on geographic delineation needed to be created. Tree volume

estimations are based on the overlay of project impact areas (new ROW, new road, stringing or pulling sites, or borderzone) with an existing land cover layer including forested areas, rock outcrops, existing ROWs, existing roads and urban areas, etc. Forested areas are delineated by the stratification of the CALVEG/EVEG layer and were assigned a volume per acre from the best available USFS inventory data linked by the attributes of forest type, crown size, and crown cover. Hazard tree volumes from the nearby 132 Line were geographically linked to the forest type in which they were located and then averages applied to the same forest types found in the Project areas. Intersections of the land cover that contained the rates of tree volumes on a per acre basis and the associated Project areas created thousands of unique polygons with their own acreages. Project totals were estimated by multiplying the acreages of the unique polygons by the geographically-specific estimated rates of tree volumes. Incorporating the intersection of other pertinent spatial information such as SEZ areas and landowner information allows for the data to be sorted for Project attribute specific queries.

An Alternative specific Segment-by-Segment analysis has been provided in this Report. While the ROWs and borderzones have been drawn in the GIS such that Segments can stand alone in analysis, some string site and new road impact areas have been split and assigned half or other portion to multiple Segments. This presents an assumed error in the analysis because roads and stringing sites must in actuality be built as a whole.

1. Components of the Estimation

The components of the estimation included in the raw data are as follows:

a) Impact acres
b) Forest conversion acres
    a. Forestland is defined as those areas modeled to have one or more trees present. These areas can be considered "forest conversion" acres. "Non-forestland" areas may be existing roads, rock outcrops, urban areas, existing Calpeco ROWs, shrub areas, etc. that still may require mastication or other ground disturbance for project construction purposes.
    b. Permanent conversion: New ROWs, new roads
    c. Temporary conversion: Temporary ROW widths for construction, stringing sites
c) Number of trees >1 inch in diameter at breast height (DBH)
d) Cubic-foot volume for all trees >1 inch DBH
e) Basal area for all trees >1 inch DBH
f) Average basal area per forest conversion acre for all trees >1 inch DBH
g) Cubic-foot volume of merchantable conifers >=9 inch DBH
h) Cubic-foot volume of biomass associated with the project to be chipped and removed (including hazard tree cubic-foot volume)
i) Estimated number of truck-miles for merchantable timber volume to be sent to the Sierra Pacific Industries mill in Quincy, CA
j) Total truck-miles for all forest products
k) Conversion of tonnes CO_2 equivalence carbon for merchantable timber
l) Conversion of tonnes CO_2 equivalence carbon for biomass chips
m) Total tonnes CO_2 equivalence for all forest products

n) Number of hazard trees
o) Cubic-foot volume of hazard trees

Note: Items #c-g listed above are for 100% forestland conversion areas (new ROW, new road, stringing sites)

2. Geographic-Specific Overlays

Project Alternatives incorporate a range of geographically-specific considerations that are included with this analysis. These are as follows:

a) Totals for each Alternative and breakdown by Segment of each Alternative:
   a. No Project Alternative (expansion of existing line ROWs to 40 feet)
   b. PEA Alternative
   c. Preferred Alternative
   d. Modified Alternative
   e. Road Focused Alternative (this Alternative includes an additional option)
   f. NOTE: Some Segments in the Modified, PEA, and No Action Alternatives required further delineation because of overlapping ROWs. Maps are provided in the Appendix showing these new Segment names.
b) Tree removal for new ROW, new road, or stringing site; many areas have been designated as more than one or all of these
c) Tree cutting in the borderzone
d) Ownership such as private, USFS Tahoe National Forest (outside Basin), USFS Tahoe National Forest Tahoe Basin Management Unit, or Burton Creek CA State Park
e) Removal in an SEZ (TRPA designated "Stream Exclusion Zone" in the Basin only)

3. GHG Sequestration Evaluation

A Greenhouse Gas (GHG) sequestration evaluation component has been included to assess future powerline abandonment and forest restoration. This is an estimation of total sequestration tonnes CO_2 equivalence forecasted to occur over the life of a Project Alternative if the existing 625 Line is removed and returned to forestland. Areas only suitable for tree growth were included; areas for existing roads, rock outcrops, shrub areas, etc. were excluded. This analysis does not consider the overlay of any new Project component. Forest tonnes CO_2 equivalence baseline date was derived from the California Air Resources Board Forest Program FIA Supersection Database. As stated above, a comprehensive GHG analysis will be required for timber removal at the time of permitting per USFS regulations on Federal land and CalFire/Forest Practice Act on non-Federal properties.

V. Summary of Forestry Impacts by Alternative

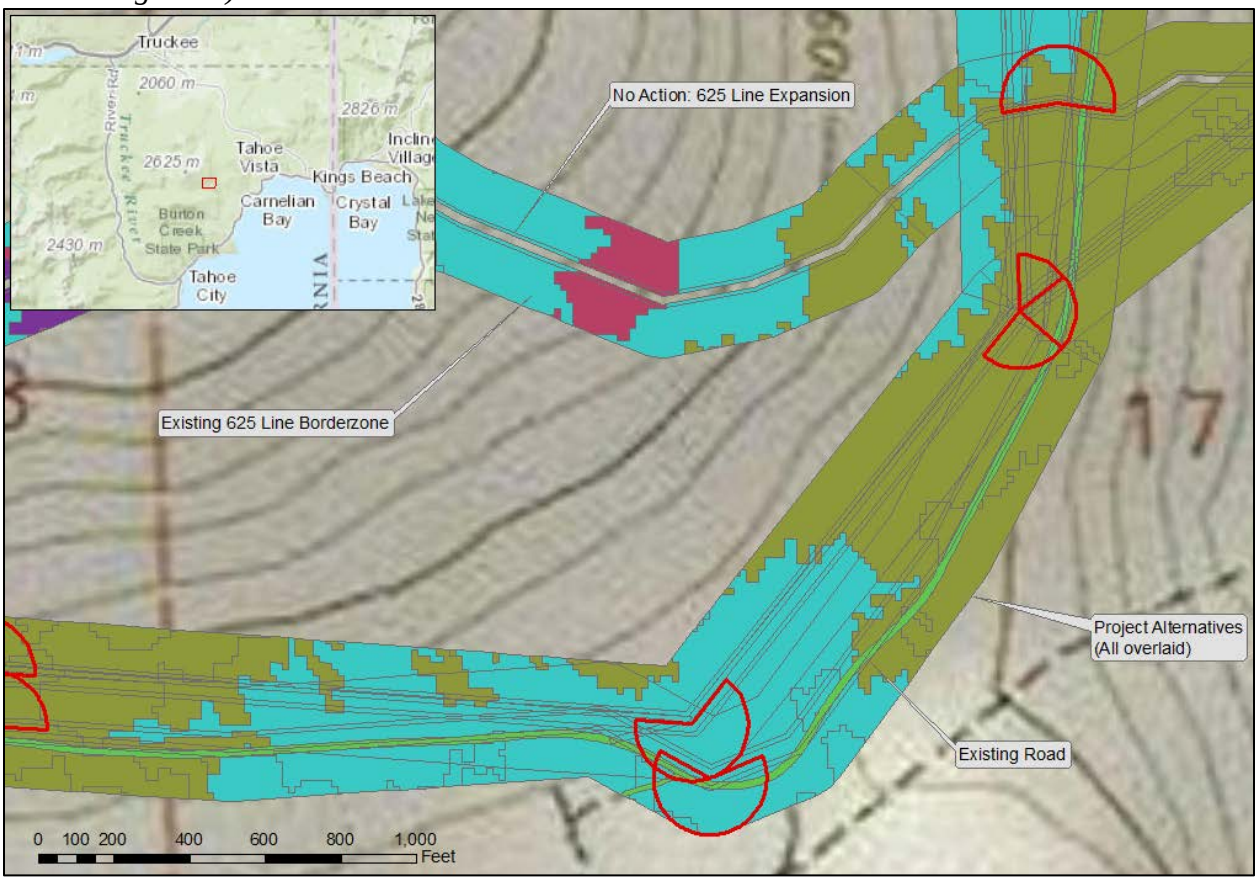
A summary of the Forestry Impact Analysis is included in this section, however in addition to this Report, detailed information is provided in the Excel sheet called "FCO Calpeco 625 Upgrade Forest

Analysis Data May 2013.xlsx." The contents of this file include a Segment-by-Segment analysis for each Alternative (including stream environment zone (SEZ) areas), Segment-by-Segment analysis only in the SEZs, and expanded calculations of impact acres delineated by temporary or permanent forest conversion as well as borderzone acres. The Excel sheet also includes an intersect of all project impact areas with the California Department of Fish and Wildlife's CA Wildlife Habitat Relationships (CWHR). These habitat types can be used as a proxy for forest type, however, due to the scale of the CWHR data and the detail of some of the impact areas, the analysis results should be used with caution. This intersect is provided as the best available and widely utilized data (used by the US Forest Service, CA DFW, and CalFire FRAP) for vegetation and habitat information.

As described above, the impact analysis was performed using a GIS overlay of project impact areas including the new ROWs, new roads, stringing sites, and borderzones intersected with a custom base layer delineated by forest type with rates of vegetation extrapolated from USFS/FIA and Calpeco data. The best available and widely used stratification for the project area is the vegetation delineation from the EVEG/CALVEG GIS data files from Region 5 of the US Forest Service. Because of the coarseness of the source data, FCO maintains that the intended use of this analysis is an Alternative to Alternative or Segment to Segment comparison. The complexity of this analysis resulted in over 50,000 unique impact polygons (resulting from the combination of different impact types, 625 removal analysis, and modeled vegetation impact) with an associated over 2.5 million volume calculations. The delineation of the vegetation within the Tahoe Basin is a raster or grid image with 15 foot cells; outside of the Basin it is 98.4 feet (30 meter) cells. They are provided by the USFS with a scale description of 1:24,000 and 1:100,000, respectively. This forest impact analysis is at a much finer scale: with some of the impact areas are as small as 12.5 foot temporary ROW buffers, not only are there assumptions from the extrapolation of the data, the base layer is too coarse to provide reliable absolute numbers. The USFS has qualitative discussion of proper uses and accuracy of the GIS data for the CALVEG/EVEG/CWHR can be found here: http://www.fs.fed.us/r5/rsl/projects/mapping/accuracy.shtml. The use of this dataset for a comparative analysis as presented in this report may still be considered valid because the analysis has been conducted with a model applied uniformly and these assumptions are consistent between different Alternatives.

The figure below shows the coarseness of the base layer used in the analysis where the raster cells are 15 by 15 feet. All Alternatives and Existing 625 Line are shown; stringing sites are outlined in red; symbology theme colors are indicative of forest type:

Figure 1: Example Illustration of GIS Analysis Results (All Alternatives and Existing Line near 625-5 and 625-6 Segments)



Below, the following tables and charts provide a selected summary of the forestry-related impacts estimated for the Project. Brief discussions of the results are included.

Table 1a: Existing Lines Modeled ROW Widths by Segment

Alternative	Segment	Existing ROW Width (feet)	New Permanent ROW Width (feet)
No Action	625-1E	20	40
	625-2E	20	40
	625-3E	20	40
	625-4E	20	40
	625-5E	20	40
	625-6E	20	40
	625-7E	20	40
	625-8E	20	40
	625-9E	20	40
	650-1E	20	40
	650-2E	20	40

	650-3E	20	40
	650-3NE	20	40
	650-4E	20	40
	650-6E	20	40
	650-7E	20	40

Table 1b: Alternatives Modeled ROW Widths by Segment

Alternative	Segment	Permanent ROW Width (feet)	Temporary ROW Width (feet)
Modified	625-1A	40	25
	625-2	40	25
	625-3	40	25
	625-4A	40	25
	625-5	40	25
	625-6A	40	25
	625-7	40	25
	625-8A	40	25
	650-1	65	0
	650-2	40	25
	650-3	40	25
	650-3N	40	25
	650-4A	40	25
	650-6	65	0
	650-7	65	0
	D-C OH-3	65	0
	D-C OH-4	65	0
PEA	625-1	40	25
	625-10	40	25
	625-2	40	25
	625-3	40	25
	625-4	40	25
	625-5	40	25
	625-6	40	25
	625-7	40	25
	625-8	40	25
	625-9	40	25
	650-1	65	0
	650-2	40	25
	650-3	40	25
	650-3N	40	25
	650-4	40	25
	650-6	65	0
	650-7	65	0
Preferred	625-1	40	25
	625-2	40	25
	625-3RF	40	25

	625-4RF	40	25
	625-5RF	40	25
	625-6RF	40	25
	625-7RF	40	25
	625-8RF	40	25
	650-1ToBeRemoved	0	0
	650-3	40	25
	650-3N	40	25
	650-4	40	25
	650-6	65	0
	650-7	65	0
	650-7ToBeRemoved	0	0
	D-C OH-1	65	0
	D-C OH-2	65	0
Road	625-1RF	40	25
	625-2RF	40	25
	625-3RF	40	25
	625-4RF	40	25
	625-5RF	40	25
	625-6RF	40	25
	625-7RF	40	25
	625-8RF	40	25
	650-1ToBeRemoved	0	0
	650-3	40	25
	650-3N	40	25
	650-4B	40	25
	650-6	65	0
	650-7	65	0
	650-7ToBeRemoved	0	0
	D-C OH-1	65	0
	D-C OH-2	65	0
RoadOpt	625-1RF	40	25
	625-2RF	40	25
	625-3RF	40	25
	625-4RF	40	25
	625-5RF	40	25
	625-6RF	40	25
	625-7RF	40	25
	625-8RF	40	25
	650-1ToBeRemoved	0	0
	650-3	40	25
	650-3N	40	25
	650-4B	40	25
	650-6	65	0
	650-7	65	0
	650-7ToBeRemoved	0	0
	D-C OH-1A	65	0

	D-C OH-2	65	0

Tables 1a and 1b show the ROW widths provided by Ascent Environmental, temporary and permanent, used in the GIS analysis for this report. It is assumed that there is no temporary ROW width expansion for the No Action Alternative.

Table 2: Forestland Impact Acres by Alternative

Alternative	Permanent Forestland Conversion Acres	Temporary Forestland Conversion Acres	Borderzone Hazard Tree Treatment Acres
No Action	49.2	N/A	618.5
Modified	128.2	77.6	545.9
PEA	121.9	88.0	542.5
Preferred	92.8	77.2	481.8
Road	93.1	78.0	487.1
RoadOpt	91.8	75.7	478.2

Table 2 provides total forestland conversion acres for each Alternative. Forested acres are those areas that contain trees greater than one inch diameter at breast height; areas will be converted permanently for new final right-of-ways (ROWs) and new roads; areas will be converted temporarily for ROWs expanded for construction and stringing sites. Areas already converted for existing roads, existing ROWs, urban areas, and rock outcrops, water, etc. are not included in the acreage totals. These totals are inclusive of areas in SEZs, however, these totals do not include acres for stringing sites for the removal of the Existing 625 Line as provided in Table 9—these acres should be added for a complete analysis.

Table 3: Total Trees >1" DBH in Conversion Areas and Borderzones—Includes Hazard Trees—to be Removed

Alternative	Number of Trees >1" DBH to be Removed
No Action	13,111
Modified	54,511
PEA	55,188
Preferred	43,249
Road	43,596
RoadOpt	42,494

Table 3 provides an estimated total of the number of trees that will need to be removed for each Alternative. This includes an estimation of the trees to be removed in the forestland both temporary and permanent conversion acres (ROWs, new roads, and stringing/staging areas) as well as hazard trees in the borderzone. The estimate is a total of all trees including both hardwoods and conifers. These totals are inclusive of areas in SEZs, however, these totals do not include totals for stringing

sites for the removal of the Existing 625 Line as provided in Table 9—these totals should be added for a complete analysis.

Table 4: Total Cubic-foot Volumes of Trees >1" DBH (Including Hazard Trees), Merchantable Trees, and Biomass to be Removed

Alternative	Total Cubic-foot Volume of Trees >1" DBH to be Removed	Total Merchantable Timber Vol in CuFt (Conifers >=9" DBH)	Total Cubic-foot Volume of Biomass (Includes Non-Merch trees and Hazard Trees)
No Action	228,434	126,644	101,790
Modified	770,815	525,142	245,673
PEA	769,378	525,646	243,732
Preferred	599,402	403,608	195,794
Road	601,498	404,849	196,649
RoadOpt	588,382	395,755	192,627

Table 4 provides estimated cubic-foot volumes of tree vegetation to be removed as associated with each Project Alternative. The Total Cubic-foot Volume of Trees is inclusive of merchantable volume and hazard tree volume. Merchantable trees are conifers greater than or equal to nine inches DBH. Hazard trees are also a part of the Total Cubic-foot Volume; in this estimation, no hazard trees are considered to be potentially merchantable. These totals are inclusive of areas in SEZs, however, these totals do not include volumes for stringing sites for the removal of the Existing 625 Line as provided in Table 9—these volumes should be added for a complete analysis.

Table 5: Total Roundtrips to Deliver Vegetation to SPI Mill in Quincy, CA

Alternative	Total Roundtrips	Total Miles
No Action	273	43,680
Modified	1,050	168,000
PEA	1,050	168,000
Preferred	810	129,600
Road	813	130,080
RoadOpt	795	127,200

Table 5 provides estimated total truck roundtrips to deliver all removed vegetation to the Sierra Pacific Industries mill in Quincy, CA. These roundtrips are calculated based on standard cubic-foot volume capacity for log trucks applied to the merchantable volume and chip vans applied to the remaining biomass. As a conservative estimate, all hazard trees are considered to be removed as biomass and transported to the mill even though some hazard trees will be inaccessible once felled. On average, a roundtrip for a truck transporting material from the Project site to Quincy, CA and back is about 160 miles. These totals are inclusive of areas in SEZs, however, do not include Existing 625 Line removal stringing site data.

Table 6: Total Cubic-foot Volumes of Trees >1" DBH (Including Hazard Trees), Merchantable Trees, and Biomass to be Removed by Landowner Type

Alternative	Total Cubic-foot Volume of Trees >1" DBH to be Removed	Total Merchantable Timber Vol in CuFt (Conifers >=9" DBH)	Total Cubic-foot Volume of Biomass (Includes Non-Merch trees and Hazard Trees)
625 & 650 Rebuild	228,434	126,644	101,790
Burton Creek State Park	508	0	508
Lake Tahoe Basin Mgmt Unit	121,407	70,838	50,569
Truckee Donner Regional Park	441	235	206
Tahoe National Forest	17,325	7,131	10,194
Private	88,753	48,440	40,313
Modified	770,815	525,142	245,673
Burton Creek State Park	5,133	3,286	1,847
Lake Tahoe Basin Mgmt Unit	468,805	326,281	142,524
Truckee Donner Regional Park	1,488	792	696
Tahoe National Forest	39,273	24,889	14,384
Private	256,115	169,894	86,221
PEA	769,378	525,646	243,732
Burton Creek State Park	5,133	3,286	1,847
Lake Tahoe Basin Mgmt Unit	485,591	339,748	145,843
Truckee Donner Regional Park	1,488	792	696
Tahoe National Forest	42,030	26,698	15,332
Private	235,135	155,122	80,013
Preferred	599,402	403,608	195,794
Burton Creek State Park	7,215	4,739	2,476
Lake Tahoe Basin Mgmt Unit	356,235	247,551	108,684
Truckee Donner Regional Park	1,488	792	696
Tahoe National Forest	44,116	28,176	15,940
Private	190,346	122,349	67,997
Road	601,498	404,849	196,649
Burton Creek State Park	7,215	4,739	2,476
Lake Tahoe Basin Mgmt Unit	356,461	247,736	108,725
Truckee Donner Regional Park	1,488	792	696
Tahoe National Forest	44,116	28,176	15,940
Private	192,216	123,406	68,810
RoadOpt	588,382	395,755	192,627
Burton Creek State Park	7,215	4,739	2,476
Lake Tahoe Basin Mgmt Unit	347,158	241,705	105,453
Truckee Donner Regional Park	1,488	792	696

Tahoe National Forest	44,116	28,176	15,940
Private	188,402	120,342	68,060

Table 6 provides estimated cubic-foot volumes of tree vegetation to be removed as associated with each Project Alternative. The Total Cubic-foot Volume of Trees is inclusive of merchantable volume and hazard tree volume. Merchantable trees are conifers greater than or equal to nine inches DBH. Hazard trees are also a part of the Total Cubic-foot Volume; in this estimation, no hazard trees are considered to be potentially merchantable. The volumes are listed based on an intersect with the CalFire FRAP-sourced property ownership layer. These totals are inclusive of areas in SEZs, however, do not include Existing 625 Line removal stringing site data.

Table 7: Total Number of Trees and Total Cubic-foot Volume of Trees >1" DBH including Hazard Trees Located in Stream Environment Zones (SEZs)

Alternative	Number of Trees >1" DBH to be Removed	Total Cubic-foot Volume of Trees >1" DBH to be Removed
No Action	528	5,840
Modified	1,696	16,471
PEA	1,721	16,911
Preferred	1,542	14,758
Road	1,543	14,770
RoadOpt	812	9,890

Table 7 provides an estimated number of trees to be removed and total associated cubic-foot volumes located in Stream Environment Zones (SEZs) for each Alternative. This includes trees in all conversion areas and hazard trees. SEZs are special areas located within the Tahoe Basin identified by their vegetation type but are usually associated with a natural water feature, such as a watercourse, pond, meadow, spring, etc. This data does not include Existing 625 Line removal stringing site data.

Table 8: Existing 625 Line Abandonment Potential Re-Grow Acres

Alternative	Potential Regrow Acres
No Action	N/A
Modified	23.6
PEA	25.2
Preferred	29.1
Road	29.1
RoadOpt	29.3

Table 8 provides Alternative-specific information on the potential for tree restoration for the existing 625 Line. Potential regrow acres are those areas of the existing 625 ROW that do not intersect conversion acres (either permanent or temporary) of a listed Alternative. To calculate net conversion

acres for an Alternative, these acreages should be subtracted from the conversion acres listed for each Alternative in Table 2. Due to the limitations of remotely sensed data in which this analysis has used for stratification and the fact that accurate delineation of forest types at the Project's scale does not exist, these are only *potential* forest regrow acres and do not account for areas such as existing roads, rock outcrops, water, etc that the Existing 625 Line traverses that will not grow trees. Subtracting values from Table 8 from those in Table 2 for net conversion acres will inherently result in an underestimation of actual conversion acres for each Alternative.

Table 9: Existing 625 Line Removal String Sites

Alternative	Temporary Forested Conversion Acres	Number of Trees >1" DBH to be Removed	Total Cubic-foot Volume of Trees >1" DBH to be Removed
No Action	N/A	N/A	N/A
Modified	8.8	2,284	38,438
PEA	9.9	2,812	45,864
Preferred	14.4	3,852	66,671
Road	14.4	3,852	66,671
RoadOpt	15.9	4,313	69,800

Table 9 provides temporary conversion acres, number of trees greater than one inch in DBH, and total cubic foot volume for trees to be removed for stringing sites related to the removal of the Existing 625 Line. These numbers are provided on an Alternative basis and vary between Alternatives based on how an Alternative overlays with the designated Existing 625 removal stringing sites. For example, conversion related to the Modified Alternative overlaps Existing 625 removal stringing sites the most of any Alternative and therefore has the lowest amount of conversion acres and tree removal. Values from Table 9 are not included in any other table in this report. For a total impact, they will need to be added on an Alternative basis to the final calculation.

Table 10: Total Carbon Volume in Metric Tonnes of Forest Vegetation to be Removed by Alternative

Alignment	Total Carbon Vol in Metric Tonnes CO_2-equivalence
No Action	4,391
Modified	14,815
PEA	14,787
Preferred	11,521
Road	11,561
RoadOpt	11,309

Table 10 provides the volumes of tree vegetation to be removed in metric tonnes CO_2 equivalence. USFS inventory data used for the Project estimations do not indicate species distributions, therefore cubic foot volumes were converted to metric tonnes CO_2 equivalence using the carbon/wood density

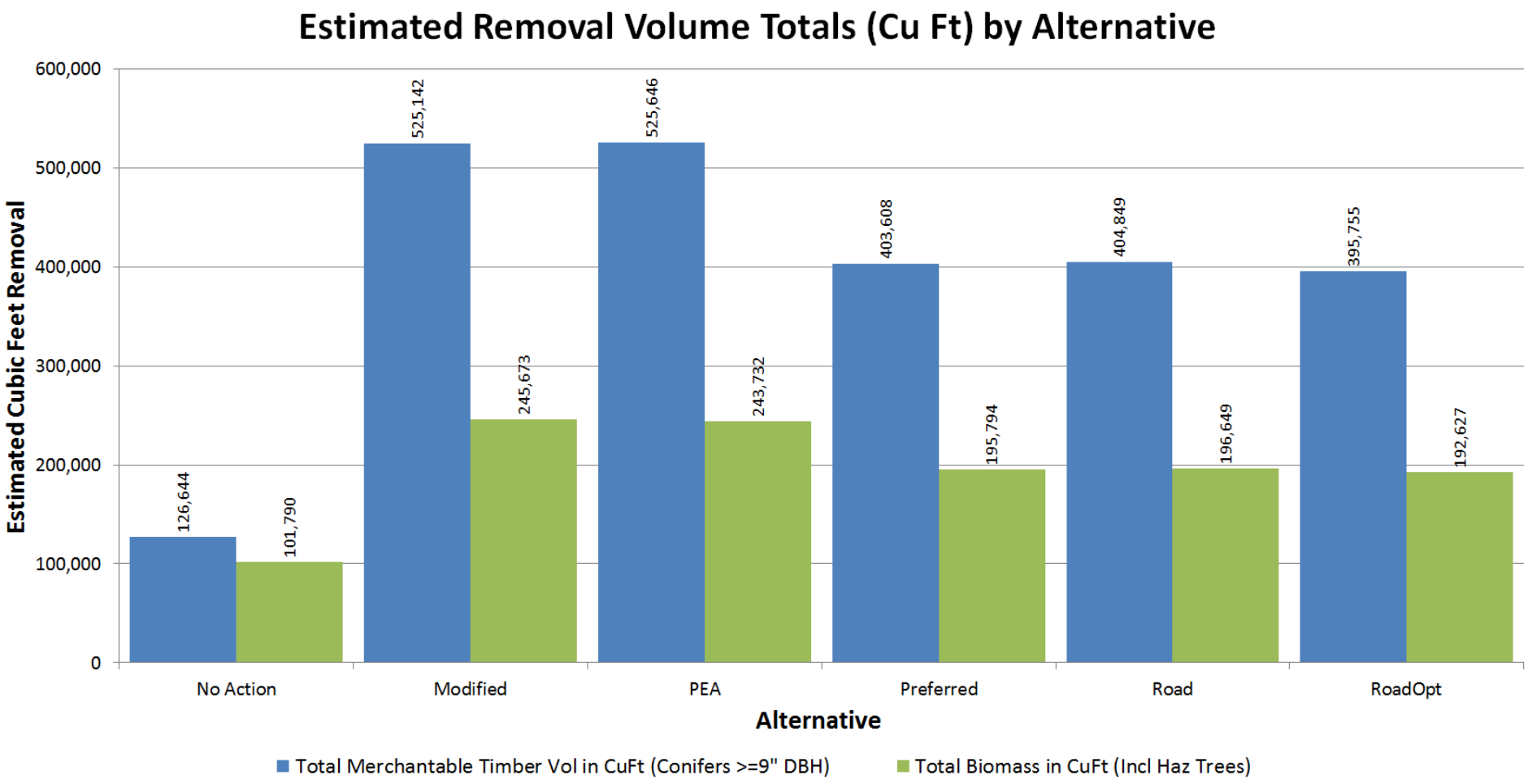
factor for White Fir (0.01922 TCO_2/ft^3) which is presumed to be the dominant species across the Project area. This conversion factor comes from using "Forest Inventory and Analysis Program USDA Forest Service: The Forest Inventory and Analysis Database: Database Description and Users Manual Version 4.0 for Phase 2" (http://www.climateactionreserve.org/how/protocols/forest/biomass-equations/) using the wood density factor for White fir from "Regional Biomass Equations Used by FIA to Estimate Bole, Bark, and Branches" (http://www.climateactionreserve.org/wp-content/uploads/2011/03/Biomass-Equations-Updated-3-25-2011.pdf). These totals are inclusive of areas in SEZs, however, do not include Existing 625 Line removal stringing site data.

Table 11: Carbon Sequestration Summary for Removal of Existing 625 Line

	Existing ROW Forestland Acres	CA ARB Sierra Mixed Conifer Carbon Baseline Per Acre	Total Carbon Sequestered Once ROW Area Regrows to Baseline
No Action	N/A		
Modified	23.6	146.1 TCO_2	3,448.0
PEA	25.2	146.1 TCO_2	3,681.7
Preferred	29.1	146.1 TCO_2	4,251.5
Road	29.1	146.1 TCO_2	4,251.5
RoadOpt	29.3	146.1 TCO_2	4,280.7

Table 11 provides an estimation of the total carbon in metric tonnes CO_2 equivalence sequestered as a result of the removal of the existing 625 Line. This estimation maintains the same assumptions as Table 8; not all acres are suitable to regrow trees and this is an overestimation of areas that can grow trees. California Air Resources Board (CA ARB) Common Practice - Above Ground Carbon Mean (Metric Tonnes CO2 equivalent) carbon baselines per acre are from the Forest Project Protocol FIA Supersections available at http://www.arb.ca.gov/cc/capandtrade/protocols/h_assessment_area_data_file_appendix_f.xls.

VI. Appendix: Chart and Segment Maps



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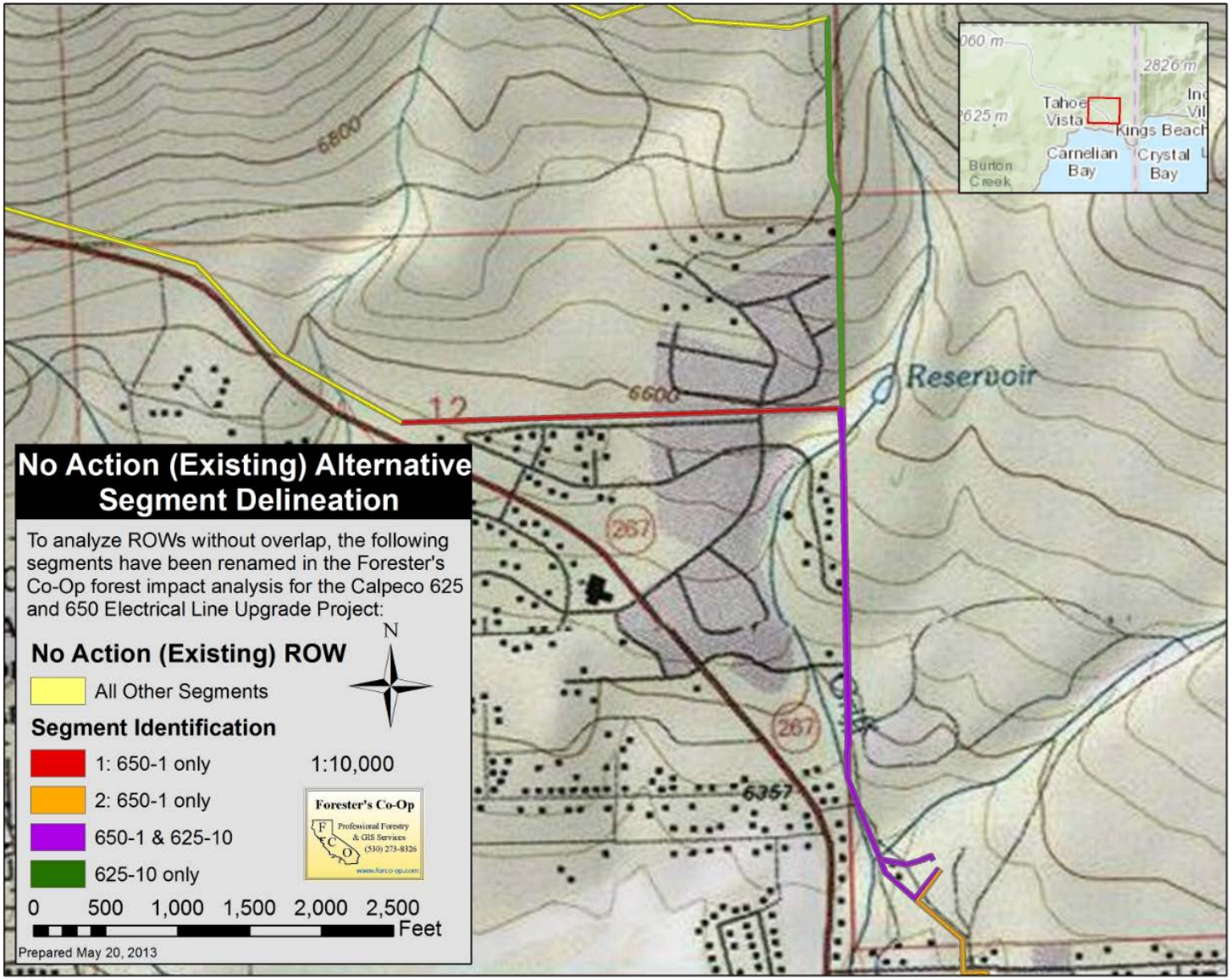

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Ph#: 530-273-8326, fax#: 530-273-2256, email: info@forco-op.com

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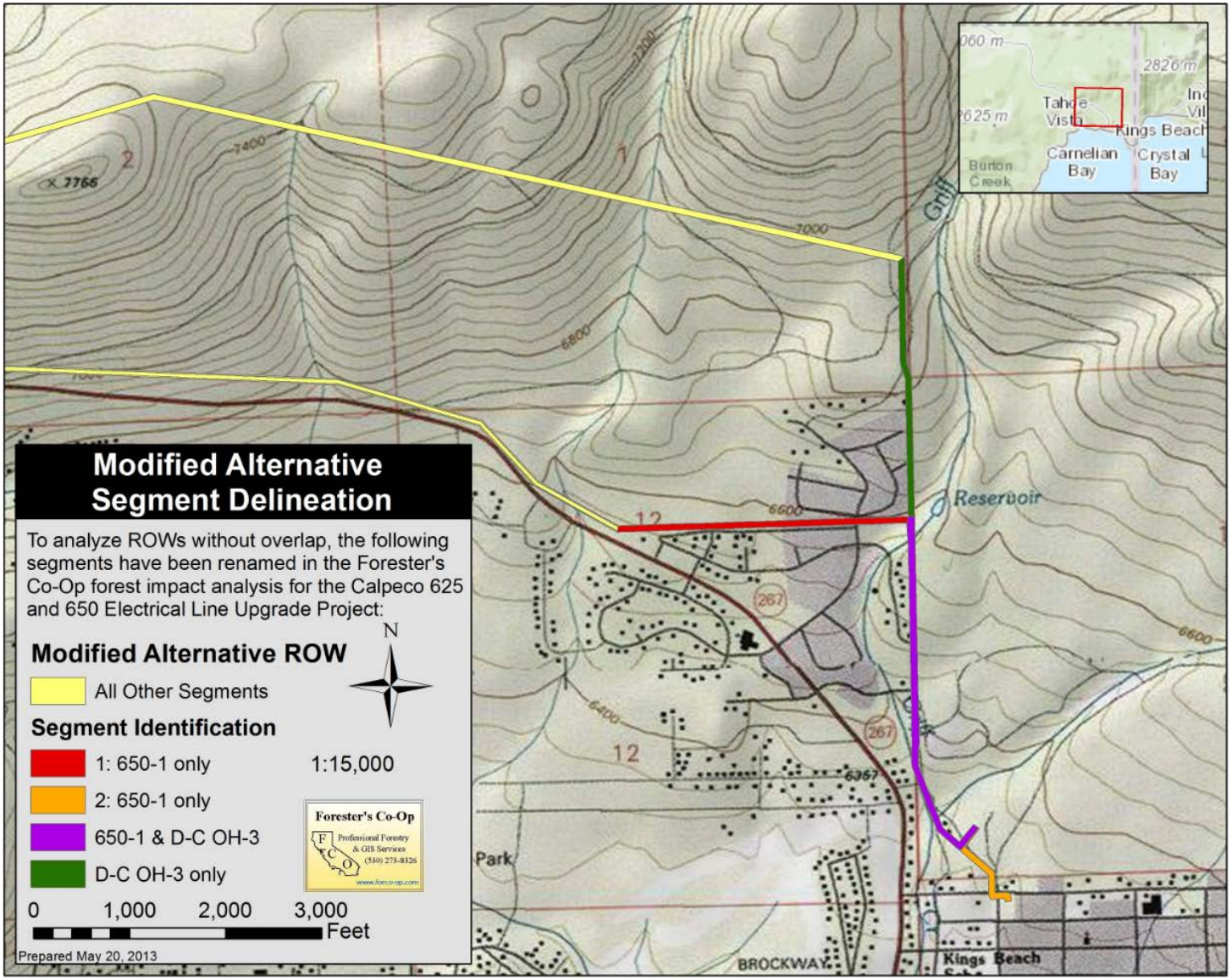

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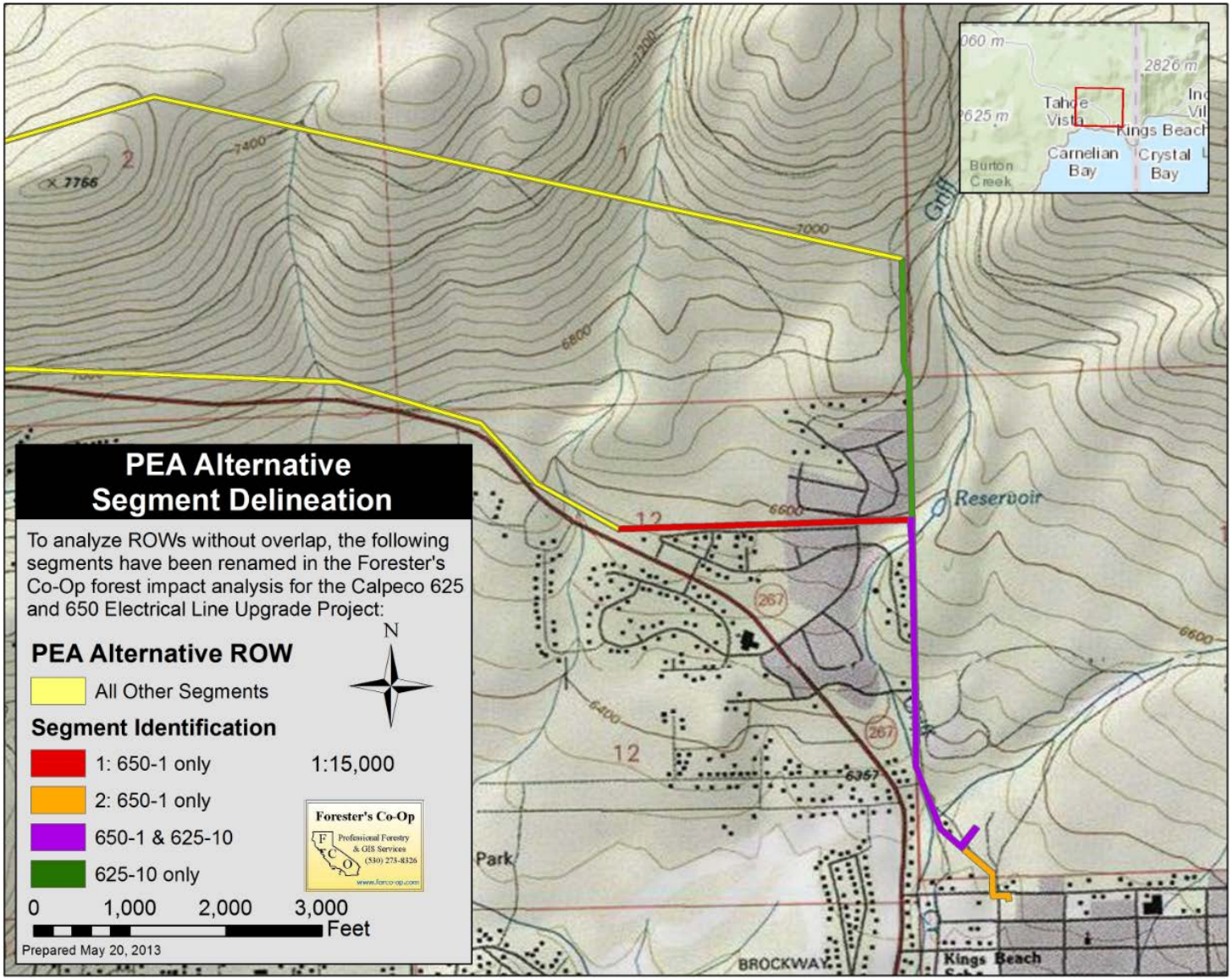

415 Colfax Ave., Grass Valley, CA 95945
Ph#: 530-273-8326, fax#: 530-273-2256, email: info@forco-op.com

IMPORTANT notes about data:

The 650-3N segment is the 650 Northstar Tap Line

"Permanent Conversion" includes final right-of-ways and new roads

"Temporary Conversion" includes temporary right-of-way treatment for construction and stringing sites

All hazard tree volume is considered "removable" and is added to the "biomass" cubic foot volumes as no hazard tree is considered merchantable

Forest Impact Analysis by Alignment and Segment including Borderzone and Conversion Area Delineation

Alignment	Total Forested Acres	Total Hazard Trees	Total Hazard Tree Cubic Foot Volume	Total No. Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Cubic Ft Volume of Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Merchantable Timber Vol in CuFt (Conifers >=9" DBH)	Total Biomass in CuFt (Incl Haz Trees)	Total Basal Area of Trees >1" to be Removed	Avg Basal Area per Acre of Trees >1" DBH to be Removed	Total Truck Trips (All Vegetation)	Total Truck Miles (All Vegetation)	Total Carbon Vol in Metric Tonnes CO2-equivalent
No Action	667.7	421	55,224	13,111	228,434	126,644	101,790	8,131.7	12	273	43,680	4,391
1: 625-10E only	14.1	15	1,460	340	5,229	2,754	2,475	182.7	13	7	1,120	101
Borderzone	12.9	15	1,460	15	1,460	0	1,460	0.0	0	1	160	28
Conversion areas	1.2	0	0	326	3,769	2,754	1,015	182.7	157	6	960	72
Permanent Conversion	1.2	0	0	326	3,769	2,754	1,015	182.7	157	6	960	72
1: 650-1E only	17.3	4	454	324	3,450	2,037	1,413	164.4	10	5	800	66
Borderzone	16.1	4	454	4	454	0	454	0.0	0	1	160	9
Conversion areas	1.2	0	0	320	2,996	2,037	959	164.4	138	5	800	58
Permanent Conversion	1.2	0	0	320	2,996	2,037	959	164.4	138	5	800	58
2: 650-1E only	4.2	0	0	97	651	412	238	40.5	10	1	160	13
Borderzone	3.9	0	0	0	0	0	0	0.0	0	0	0	0
Conversion areas	0.3	0	0	97	651	412	238	40.5	132	1	160	13
Permanent Conversion	0.3	0	0	97	651	412	238	40.5	132	1	160	13
625-1E	3.4	2	158	77	1,454	937	517	62.8	18	2	320	28
Borderzone	3.0	2	158	2	158	0	158	0.0	0	1	160	3
Conversion areas	0.5	0	0	76	1,297	937	359	62.8	136	2	320	25
Permanent Conversion	0.5	0	0	76	1,297	937	359	62.8	136	2	320	25
625-2E	53.5	44	4,614	1,042	17,934	9,726	8,208	636.4	12	22	3,520	345
Borderzone	49.4	44	4,614	44	4,614	0	4,614	0.0	0	3	480	89
Conversion areas	4.2	0	0	998	13,320	9,726	3,594	636.4	153	20	3,200	256
Permanent Conversion	4.2	0	0	998	13,320	9,726	3,594	636.4	153	20	3,200	256
625-3E	110.6	94	11,773	1,935	40,608	21,517	19,091	1,292.5	12	48	7,680	780
Borderzone	102.7	94	11,773	94	11,773	0	11,773	0.0	0	6	960	226
Conversion areas	7.8	0	0	1,842	28,835	21,517	7,318	1,292.5	165	42	6,720	554
Permanent Conversion	7.8	0	0	1,842	28,835	21,517	7,318	1,292.5	165	42	6,720	554
625-4E	23.3	31	5,902	403	13,427	5,736	7,691	296.3	13	14	2,240	258
Borderzone	21.8	31	5,902	31	5,902	0	5,902	0.0	0	3	480	113
Conversion areas	1.5	0	0	372	7,525	5,736	1,789	296.3	198	12	1,920	145
Permanent Conversion	1.5	0	0	372	7,525	5,736	1,789	296.3	198	12	1,920	145
625-5E	46.4	4	345	847	16,375	12,515	3,859	700.7	15	25	4,000	315
Borderzone	43.1	4	345	4	345	0	345	0.0	0	1	160	7
Conversion areas	3.3	0	0	843	16,030	12,515	3,515	700.7	212	24	3,840	308
Permanent Conversion	3.3	0	0	843	16,030	12,515	3,515	700.7	212	24	3,840	308
625-6E	27.7	27	2,708	612	9,677	5,158	4,519	331.6	12	12	1,920	186
Borderzone	25.7	27	2,708	27	2,708	0	2,708	0.0	0	2	320	52
Conversion areas	2.0	0	0	586	6,969	5,158	1,811	331.6	163	11	1,760	134
Permanent Conversion	2.0	0	0	586	6,969	5,158	1,811	331.6	163	11	1,760	134
625-7E	54.7	23	2,343	825	15,390	9,610	5,781	610.7	11	20	3,200	296
Borderzone	50.7	23	2,343	23	2,343	0	2,343	0.0	0	2	320	45
Conversion areas	4.0	0	0	802	13,048	9,610	3,438	610.7	154	19	3,040	251
Permanent Conversion	4.0	0	0	802	13,048	9,610	3,438	610.7	154	19	3,040	251
625-8E	22.7	23	4,568	537	13,511	6,944	6,568	351.2	15	16	2,560	260
Borderzone	20.8	23	4,568	23	4,568	0	4,568	0.0	0	3	480	88
Conversion areas	1.9	0	0	514	8,943	6,944	2,000	351.2	188	14	2,240	172
Permanent Conversion	1.9	0	0	514	8,943	6,944	2,000	351.2	188	14	2,240	172
625-9E	77.0	70	8,652	1,548	31,863	17,831	14,032	985.2	13	39	6,240	612
Borderzone	71.4	70	8,652	70	8,652	0	8,652	0.0	0	4	640	166
Conversion areas	5.6	0	0	1,479	23,210	17,831	5,380	985.2	177	35	5,600	446
Permanent Conversion	5.6	0	0	1,479	23,210	17,831	5,380	985.2	177	35	5,600	446
650-1E & 625-10E	23.7	5	479	673	5,124	3,055	2,069	269.8	11	7	1,120	98
Borderzone	21.8	5	479	5	479	0	479	0.0	0	1	160	9
Conversion areas	1.8	0	0	668	4,645	3,055	1,589	269.8	146	7	1,120	89

Forest Impact Analysis by Alignment and Segment including Borderzone and Conversion Area Delineation

Alignment	Total Forested Acres	Total Hazard Trees	Total Hazard Tree Cubic Foot Volume	Total No. Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Cubic Ft Volume of Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Merchantable Timber Vol in CuFt (Conifers >=9" DBH)	Total Biomass in CuFt (Incl Haz Trees)	Total Basal Area of Trees >1" to be Removed	Avg Basal Area per Acre of Trees >1" DBH to be Removed	Total Truck Trips (All Vegetation)	Total Truck Miles (All Vegetation)	Total Carbon Vol in Metric Tonnes CO2-equivalent
Permanent Conversion	1.8	0	0	668	4,645	3,055	1,589	269.8	146	7	1,120	89
650-2E	40.6	32	3,841	594	12,144	6,134	6,011	384.5	9	14	2,240	233
Borderzone	38.1	32	3,841	32	3,841	0	3,841	0.0	0	2	320	74
Conversion areas	2.5	0	0	562	8,304	6,134	2,170	384.5	151	12	1,920	160
Permanent Conversion	2.5	0	0	562	8,304	6,134	2,170	384.5	151	12	1,920	160
650-3E	112.0	46	7,137	2,486	33,672	17,706	15,966	1,420.6	13	39	6,240	647
Borderzone	103.2	46	7,137	46	7,137	0	7,137	0.0	0	4	640	137
Conversion areas	8.8	0	0	2,440	26,535	17,706	8,829	1,420.6	162	36	5,760	510
Permanent Conversion	8.8	0	0	2,440	26,535	17,706	8,829	1,420.6	162	36	5,760	510
650-3NE	16.6	8	764	359	4,893	2,814	2,080	208.6	13	6	960	94
Borderzone	15.4	8	764	8	764	0	764	0.0	0	1	160	15
Conversion areas	1.2	0	0	352	4,129	2,814	1,315	208.6	176	6	960	79
Permanent Conversion	1.2	0	0	352	4,129	2,814	1,315	208.6	176	6	960	79
650-4E	0.5	0	0	0	0	0	0	0.0	0	0	0	0
Borderzone	0.5	0	0	0	0	0	0	0.0	0	0	0	0
650-6E	12.1	1	19	251	2,034	1,180	853	129.0	11	3	480	39
Borderzone	11.0	1	19	1	19	0	19	0.0	0	1	160	0
Conversion areas	1.0	0	0	251	2,015	1,180	834	129.0	125	3	480	39
Permanent Conversion	1.0	0	0	251	2,015	1,180	834	129.0	125	3	480	39
650-7E	7.3	1	6	170	997	579	418	64.3	9	2	320	19
Borderzone	6.8	1	6	1	6	0	6	0.0	0	1	160	0
Conversion areas	0.5	0	0	170	991	579	412	64.3	134	2	320	19
Permanent Conversion	0.5	0	0	170	991	579	412	64.3	134	2	320	19
Modified	751.7	403	52,172	54,511	770,815	525,142	245,673	33,993.4	45	1050	168,000	14,815
1: 650-1 only	18.4	4	413	1,048	10,183	6,640	3,543	536.7	29	14	2,240	196
Borderzone	14.5	4	413	4	413	0	413	0.0	0	1	160	8
Conversion areas	3.9	0	0	1,044	9,770	6,640	3,129	536.7	138	14	2,240	188
Permanent Conversion	3.9	0	0	1,044	9,770	6,640	3,129	536.7	138	14	2,240	188
2: 650-1 only	4.5	0	0	278	1,879	1,191	688	116.9	26	3	480	36
Borderzone	3.6	0	0	0	0	0	0	0.0	0	0	0	0
Conversion areas	0.9	0	0	278	1,879	1,191	688	116.9	132	3	480	36
Permanent Conversion	0.9	0	0	278	1,879	1,191	688	116.9	132	3	480	36
625-1A	6.2	2	134	555	10,386	7,484	2,901	491.4	79	15	2,400	200
Borderzone	2.6	2	133	2	133	0	133	0.0	0	1	160	3
Conversion areas	3.7	1	1	554	10,253	7,484	2,768	491.4	134	15	2,400	197
Permanent Conversion	1.0	1	1	157	2,723	1,971	752	131.9	135	4	640	52
Temporary Conversion	2.7	0	0	398	7,530	5,513	2,016	359.5	133	11	1,760	145
625-2	60.7	41	4,243	4,334	58,994	39,986	19,008	2,627.5	43	81	12,960	1,134
Borderzone	43.6	41	4,240	41	4,240	0	4,240	0.0	0	2	320	81
Conversion areas	17.1	1	3	4,294	54,754	39,986	14,768	2,627.5	154	79	12,640	1,052
Permanent Conversion	8.2	1	3	2,029	26,332	19,227	7,106	1,261.3	153	38	6,080	506
Temporary Conversion	8.9	0	0	2,266	28,421	20,759	7,662	1,366.2	154	41	6,560	546
625-3	115.6	80	9,646	8,022	125,022	84,932	40,090	5,354.1	46	170	27,200	2,403
Borderzone	81.8	78	9,428	78	9,428	0	9,428	0.0	0	5	800	181
Conversion areas	33.8	2	218	7,944	115,594	84,932	30,662	5,354.1	158	166	26,560	2,222
Permanent Conversion	19.0	2	218	4,470	65,425	48,033	17,391	3,018.3	159	94	15,040	1,257
Temporary Conversion	14.8	0	0	3,475	50,169	36,898	13,271	2,335.8	158	72	11,520	964
625-4A	27.6	32	5,935	2,111	41,579	26,799	14,781	1,506.7	55	55	8,800	799
Borderzone	20.4	32	5,884	32	5,884	0	5,884	0.0	0	3	480	113
Conversion areas	7.2	1	51	2,080	35,696	26,799	8,897	1,506.7	209	52	8,320	686
Permanent Conversion	4.4	1	51	1,248	22,177	16,682	5,496	923.7	211	33	5,280	426
Temporary Conversion	2.8	0	0	833	13,519	10,117	3,402	583.0	207	20	3,200	260
625-5	59.4	16	1,562	4,766	81,026	61,900	19,127	3,583.2	60	120	19,200	1,557

Forest Impact Analysis by Alignment and Segment including Borderzone and Conversion Area Delineation

Alignment	Total Forested Acres	Total Hazard Trees	Total Hazard Tree Cubic Foot Volume	Total No. Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Cubic Ft Volume of Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Merchantable Timber Vol in CuFt (Conifers >=9" DBH)	Total Biomass in CuFt (Incl Haz Trees)	Total Basal Area of Trees >1" to be Removed	Avg Basal Area per Acre of Trees >1" DBH to be Removed	Total Truck Trips (All Vegetation)	Total Truck Miles (All Vegetation)	Total Carbon Vol in Metric Tonnes CO2-equivalent
Borderzone	41.5	16	1,560	16	1,560	0	1,560	0.0	0	1	160	30
Conversion areas	17.8	1	3	4,751	79,466	61,900	17,567	3,583.2	201	119	19,040	1,527
Permanent Conversion	9.1	1	3	2,453	40,448	31,476	8,971	1,830.2	201	61	9,760	777
Temporary Conversion	8.7	0	0	2,298	39,019	30,423	8,595	1,753.0	201	59	9,440	750
625-6A	36.4	31	3,137	2,455	29,293	19,117	10,176	1,278.1	35	39	6,240	563
Borderzone	28.3	31	3,133	31	3,133	0	3,133	0.0	0	2	320	60
Conversion areas	8.0	1	4	2,425	26,160	19,117	7,043	1,278.1	159	38	6,080	503
Permanent Conversion	4.2	1	4	1,274	13,594	9,933	3,661	664.9	159	20	3,200	261
Temporary Conversion	3.9	0	0	1,151	12,567	9,184	3,382	613.2	159	18	2,880	242
625-7	64.9	27	2,749	4,059	61,422	43,164	18,258	2,773.8	43	86	13,760	1,181
Borderzone	47.0	26	2,650	26	2,650	0	2,650	0.0	0	2	320	51
Conversion areas	17.9	1	98	4,034	58,772	43,164	15,608	2,773.8	155	85	13,600	1,130
Permanent Conversion	11.2	1	98	2,355	36,905	27,091	9,814	1,728.8	154	53	8,480	709
Temporary Conversion	6.6	0	0	1,679	21,867	16,073	5,794	1,045.0	158	32	5,120	420
625-8A	27.0	20	3,898	2,839	49,937	35,520	14,417	1,836.5	68	70	11,200	960
Borderzone	17.6	19	3,743	19	3,743	0	3,743	0.0	0	2	320	72
Conversion areas	9.4	1	156	2,820	46,194	35,520	10,674	1,836.5	195	69	11,040	888
Permanent Conversion	5.0	1	156	1,418	24,613	19,010	5,603	957.8	191	37	5,920	473
Temporary Conversion	4.4	0	0	1,402	21,582	16,511	5,071	878.7	198	32	5,120	415
650-1 & D-C OH-3	26.5	5	435	2,656	18,938	12,176	6,762	1,074.6	41	25	4,000	364
Borderzone	19.1	5	435	5	435	0	435	0.0	0	1	160	8
Conversion areas	7.4	0	0	2,651	18,504	12,176	6,327	1,074.6	146	25	4,000	356
Permanent Conversion	6.2	0	0	2,286	16,029	10,608	5,421	920.6	148	22	3,520	308
Temporary Conversion	1.2	0	0	366	2,475	1,569	906	154.0	132	4	640	48
650-2	43.2	30	3,514	1,853	30,385	19,850	10,534	1,244.7	29	41	6,560	584
Borderzone	34.9	30	3,514	30	3,514	0	3,514	0.0	0	2	320	68
Conversion areas	8.3	0	0	1,823	26,870	19,850	7,020	1,244.7	151	39	6,240	516
Permanent Conversion	5.1	0	0	1,119	16,652	12,296	4,356	770.5	151	24	3,840	320
Temporary Conversion	3.2	0	0	705	10,218	7,554	2,664	474.2	151	15	2,400	196
650-3	120.8	39	6,063	9,111	101,978	63,327	38,651	5,231.4	43	131	20,960	1,960
Borderzone	88.2	39	6,063	39	6,063	0	6,063	0.0	0	3	480	117
Conversion areas	32.6	0	0	9,072	95,915	63,327	32,588	5,231.4	160	128	20,480	1,843
Permanent Conversion	17.6	0	0	4,911	53,550	35,766	17,784	2,861.4	162	72	11,520	1,029
Temporary Conversion	15.0	0	0	4,161	42,365	27,562	14,804	2,370.0	158	56	8,960	814
650-3N	17.8	7	699	1,146	14,112	9,147	4,965	676.2	38	19	3,040	271
Borderzone	14.0	7	699	7	699	0	699	0.0	0	1	160	13
Conversion areas	3.8	0	0	1,139	13,412	9,147	4,266	676.2	177	19	3,040	258
Permanent Conversion	2.4	0	0	702	8,262	5,634	2,628	416.6	176	12	1,920	159
Temporary Conversion	1.5	0	0	438	5,150	3,513	1,638	259.6	177	8	1,280	99
650-4A	0.5	0	0	1	0	0	0	0.0	0	1	160	0
Borderzone	0.5	0	0	0	0	0	0	0.0	0	0	0	0
Conversion areas	0.0	0	0	1	0	0	0	0.0	134	1	160	0
Temporary Conversion	0.0	0	0	1	0	0	0	0.0	134	1	160	0
650-6	13.1	1	17	791	6,512	3,806	2,706	415.6	32	9	1,440	125
Borderzone	9.8	1	17	1	17	0	17	0.0	0	1	160	0
Conversion areas	3.3	0	0	790	6,495	3,806	2,689	415.6	125	9	1,440	125
Permanent Conversion	3.3	0	0	779	6,387	3,739	2,649	409.3	124	8	1,280	123
Temporary Conversion	0.0	0	0	12	108	67	41	6.3	164	1	160	2
650-7	7.8	1	6	678	3,967	2,314	1,653	257.0	33	5	800	76
Borderzone	5.8	1	6	1	6	0	6	0.0	0	1	160	0
Conversion areas	1.9	0	0	678	3,961	2,314	1,646	257.0	134	5	800	76
Permanent Conversion	1.6	0	0	554	3,235	1,890	1,345	209.9	134	4	640	62
Temporary Conversion	0.4	0	0	125	726	424	302	47.1	134	1	160	14

Forest Impact Analysis by Alignment and Segment including Borderzone and Conversion Area Delineation

Alignment	Total Forested Acres	Total Hazard Trees	Total Hazard Tree Cubic Foot Volume	Total No. Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Cubic Ft Volume of Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Merchantable Timber Vol in CuFt (Conifers >=9" DBH)	Total Biomass in CuFt (Incl Haz Trees)	Total Basal Area of Trees >1" to be Removed	Avg Basal Area per Acre of Trees >1" DBH to be Removed	Total Truck Trips (All Vegetation)	Total Truck Miles (All Vegetation)	Total Carbon Vol in Metric Tonnes CO2-equivalent
D-C OH-3 only	17.2	13	1,343	1,552	18,992	12,898	6,095	856.6	50	26	4,160	365
Borderzone	11.7	13	1,333	13	1,333	0	1,333	0.0	0	1	160	26
Conversion areas	5.4	1	11	1,540	17,660	12,898	4,762	856.6	157	26	4,160	339
Permanent Conversion	3.8	1	11	1,081	12,448	9,089	3,358	603.4	157	18	2,880	239
Temporary Conversion	1.6	0	0	459	5,212	3,808	1,404	253.1	157	8	1,280	100
D-C OH-4	84.3	64	8,376	6,267	106,209	74,890	31,319	4,132.5	49	148	23,680	2,041
Borderzone	61.0	60	7,815	60	7,815	0	7,815	0.0	0	4	640	150
Conversion areas	23.3	4	560	6,207	98,393	74,890	23,504	4,132.5	177	145	23,200	1,891
Permanent Conversion	21.3	4	560	5,813	87,412	66,037	21,375	3,734.3	175	128	20,480	1,680
Temporary Conversion	2.0	0	0	395	10,981	8,853	2,129	398.2	200	17	2,720	211
PEA	752.4	385	48,554	55,188	769,378	525,646	243,732	34,402.5	46	1050	168,000	14,787
1: 650-1 only	18.4	4	413	1,048	10,185	6,641	3,543	536.8	29	14	2,240	196
Borderzone	14.5	4	413	4	413	0	413	0.0	0	1	160	8
Conversion areas	3.9	0	0	1,044	9,771	6,641	3,130	536.8	138	14	2,240	188
Permanent Conversion	3.9	0	0	1,044	9,771	6,641	3,130	536.8	138	14	2,240	188
2: 650-1 only	4.4	0	0	243	1,640	1,040	601	102.1	23	3	480	32
Borderzone	3.6	0	0	0	0	0	0	0.0	0	0	0	0
Conversion areas	0.8	0	0	243	1,640	1,040	601	102.1	132	3	480	32
Permanent Conversion	0.8	0	0	243	1,640	1,040	601	102.1	132	3	480	32
625-1	6.3	2	136	551	10,323	7,433	2,890	487.8	78	15	2,400	198
Borderzone	2.7	2	135	2	135	0	135	0.0	0	1	160	3
Conversion areas	3.6	1	1	550	10,187	7,433	2,755	487.8	134	15	2,400	196
Permanent Conversion	1.0	1	1	157	2,734	1,977	756	132.1	136	4	640	53
Temporary Conversion	2.7	0	0	394	7,454	5,455	1,998	355.7	134	11	1,760	143
625-10 & 650-1	26.8	5	435	2,754	19,680	12,671	7,009	1,117.1	42	26	4,160	378
Borderzone	19.1	5	435	5	435	0	435	0.0	0	1	160	8
Conversion areas	7.7	0	0	2,750	19,245	12,671	6,574	1,117.1	145	26	4,160	370
Permanent Conversion	5.8	0	0	2,105	14,712	9,699	5,013	851.4	146	20	3,200	283
Temporary Conversion	1.9	0	0	645	4,533	2,972	1,561	265.8	143	7	1,120	87
625-10 only	17.2	13	1,343	1,554	19,003	12,906	6,098	857.1	50	26	4,160	365
Borderzone	11.7	13	1,333	13	1,333	0	1,333	0.0	0	1	160	26
Conversion areas	5.5	1	11	1,541	17,671	12,906	4,765	857.1	157	26	4,160	340
Permanent Conversion	2.4	1	11	682	7,868	5,742	2,125	381.1	157	12	1,920	151
Temporary Conversion	3.0	0	0	859	9,803	7,164	2,639	476.0	157	14	2,240	188
625-2	60.7	41	4,243	4,334	58,994	39,986	19,008	2,627.5	43	81	12,960	1,134
Borderzone	43.6	41	4,240	41	4,240	0	4,240	0.0	0	2	320	81
Conversion areas	17.1	1	3	4,294	54,754	39,986	14,768	2,627.5	154	79	12,640	1,052
Permanent Conversion	8.2	1	3	2,029	26,332	19,227	7,106	1,261.3	153	38	6,080	506
Temporary Conversion	8.9	0	0	2,266	28,421	20,759	7,662	1,366.2	154	41	6,560	546
625-3	115.6	80	9,674	8,042	125,126	84,984	40,142	5,360.4	46	171	27,360	2,405
Borderzone	81.7	78	9,456	78	9,456	0	9,456	0.0	0	5	800	182
Conversion areas	33.9	2	218	7,964	115,670	84,984	30,686	5,360.4	158	166	26,560	2,223
Permanent Conversion	19.0	2	218	4,470	65,429	48,037	17,392	3,018.4	159	94	15,040	1,258
Temporary Conversion	14.8	0	0	3,495	50,241	36,947	13,294	2,342.0	158	73	11,680	966
625-4	27.9	33	6,095	2,159	43,219	28,018	15,202	1,545.2	55	57	9,120	831
Borderzone	20.2	32	6,048	32	6,048	0	6,048	0.0	0	3	480	116
Conversion areas	7.8	1	46	2,127	37,171	28,018	9,153	1,545.2	199	55	8,800	714
Permanent Conversion	4.7	1	46	1,309	23,266	17,506	5,760	957.0	203	34	5,440	447
Temporary Conversion	3.0	0	0	819	13,905	10,511	3,394	588.2	193	21	3,360	267
625-5	59.2	16	1,549	4,762	80,974	61,871	19,103	3,581.3	61	120	19,200	1,556
Borderzone	41.4	16	1,547	16	1,547	0	1,547	0.0	0	1	160	30
Conversion areas	17.8	1	2	4,747	79,427	61,871	17,556	3,581.3	201	119	19,040	1,527
Permanent Conversion	9.1	1	2	2,451	40,419	31,455	8,963	1,828.8	201	61	9,760	777

Forest Impact Analysis by Alignment and Segment including Borderzone and Conversion Area Delineation

Alignment	Total Forested Acres	Total Hazard Trees	Total Hazard Tree Cubic Foot Volume	Total No. Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Cubic Ft Volume of Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Merchantable Timber Vol in CuFt (Conifers >=9" DBH)	Total Biomass in CuFt (Incl Haz Trees)	Total Basal Area of Trees >1" to be Removed	Avg Basal Area per Acre of Trees >1" DBH to be Removed	Total Truck Trips (All Vegetation)	Total Truck Miles (All Vegetation)	Total Carbon Vol in Metric Tonnes CO2-equivalent
Temporary Conversion	8.7	0	0	2,297	39,009	30,416	8,593	1,752.6	201	59	9,440	750
625-6	37.5	20	2,029	2,699	38,968	27,667	11,301	1,744.8	46	55	8,800	749
Borderzone	27.3	20	2,029	20	2,029	0	2,029	0.0	0	1	160	39
Conversion areas	10.3	0	0	2,679	36,939	27,667	9,272	1,744.8	170	54	8,640	710
Permanent Conversion	5.8	0	0	1,590	20,838	15,581	5,256	989.7	170	31	4,960	400
Temporary Conversion	4.4	0	0	1,090	16,102	12,086	4,016	755.0	170	24	3,840	309
625-7	64.8	28	2,790	3,933	60,115	42,178	17,937	2,707.8	42	84	13,440	1,155
Borderzone	47.4	27	2,692	27	2,692	0	2,692	0.0	0	2	320	52
Conversion areas	17.4	1	98	3,907	57,423	42,178	15,245	2,707.8	155	83	13,280	1,104
Permanent Conversion	11.2	1	98	2,356	36,907	27,093	9,814	1,728.9	154	53	8,480	709
Temporary Conversion	6.2	0	0	1,552	20,516	15,085	5,430	978.8	157	30	4,800	394
625-8	26.2	14	1,389	2,562	30,512	21,331	9,181	1,397.3	53	43	6,880	586
Borderzone	17.7	13	1,336	13	1,336	0	1,336	0.0	0	1	160	26
Conversion areas	8.6	1	53	2,549	29,176	21,331	7,845	1,397.3	163	42	6,720	561
Permanent Conversion	4.6	1	53	1,357	14,781	10,684	4,097	727.7	159	21	3,360	284
Temporary Conversion	4.0	0	0	1,192	14,395	10,647	3,748	669.6	168	21	3,360	277
625-9	84.3	64	8,377	6,267	106,210	74,890	31,320	4,132.5	49	148	23,680	2,041
Borderzone	61.0	60	7,817	60	7,817	0	7,817	0.0	0	4	640	150
Conversion areas	23.3	4	560	6,207	98,393	74,890	23,504	4,132.5	177	145	23,200	1,891
Permanent Conversion	14.6	4	560	3,987	60,441	45,547	14,894	2,570.4	176	89	14,240	1,162
Temporary Conversion	8.7	0	0	2,221	37,952	29,343	8,609	1,562.0	180	57	9,120	729
650-2	43.2	28	3,296	2,565	37,862	25,437	12,425	1,624.7	38	52	8,320	728
Borderzone	32.5	27	3,262	27	3,262	0	3,262	0.0	0	2	320	63
Conversion areas	10.7	1	34	2,538	34,600	25,437	9,162	1,624.7	152	50	8,000	665
Permanent Conversion	5.9	1	34	1,311	18,828	13,809	5,019	880.2	150	27	4,320	362
Temporary Conversion	4.8	0	0	1,227	15,772	11,628	4,144	744.6	154	23	3,680	303
650-3	120.8	39	6,060	9,110	101,975	63,327	38,648	5,231.4	43	131	20,960	1,960
Borderzone	88.2	39	6,060	39	6,060	0	6,060	0.0	0	3	480	116
Conversion areas	32.6	0	0	9,072	95,915	63,327	32,588	5,231.4	160	128	20,480	1,843
Permanent Conversion	17.6	0	0	4,911	53,550	35,766	17,784	2,861.4	162	72	11,520	1,029
Temporary Conversion	15.0	0	0	4,161	42,365	27,561	14,804	2,370.0	158	56	8,960	814
650-3N	17.8	7	699	1,146	14,112	9,147	4,965	676.2	38	19	3,040	271
Borderzone	14.0	7	699	7	699	0	699	0.0	0	1	160	13
Conversion areas	3.8	0	0	1,139	13,412	9,147	4,266	676.2	177	19	3,040	258
Permanent Conversion	2.4	0	0	702	8,262	5,634	2,628	416.6	176	12	1,920	159
Temporary Conversion	1.5	0	0	438	5,150	3,513	1,638	259.6	177	8	1,280	99
650-4	0.5	0	0	1	0	0	0	0.0	0	1	160	0
Borderzone	0.5	0	0	0	0	0	0	0.0	0	0	0	0
Conversion areas	0.0	0	0	1	0	0	0	0.0	134	1	160	0
Temporary Conversion	0.0	0	0	1	0	0	0	0.0	134	1	160	0
650-6	13.1	1	17	791	6,512	3,806	2,706	415.6	32	9	1,440	125
Borderzone	9.8	1	17	1	17	0	17	0.0	0	1	160	0
Conversion areas	3.3	0	0	790	6,495	3,806	2,689	415.6	125	9	1,440	125
Permanent Conversion	3.3	0	0	779	6,387	3,739	2,649	409.3	124	8	1,280	123
Temporary Conversion	0.0	0	0	12	108	67	41	6.3	164	1	160	2
650-7	7.8	1	6	678	3,967	2,314	1,653	257.0	33	5	800	76
Borderzone	5.8	1	6	1	6	0	6	0.0	0	1	160	0
Conversion areas	1.9	0	0	678	3,961	2,314	1,646	257.0	134	5	800	76
Permanent Conversion	1.6	0	0	554	3,235	1,890	1,345	209.9	134	4	640	62
Temporary Conversion	0.4	0	0	125	726	424	302	47.1	134	1	160	14
Preferred	651.8	319	39,624	43,249	599,402	403,608	195,794	27,203.3	42	810	129,600	11,521
625-1	6.3	2	136	551	10,323	7,433	2,890	487.8	78	15	2,400	198
Borderzone	2.7	2	135	2	135	0	135	0.0	0	1	160	3

Forest Impact Analysis by Alignment and Segment including Borderzone and Conversion Area Delineation

Alignment	Total Forested Acres	Total Hazard Trees	Total Hazard Tree Cubic Foot Volume	Total No. Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Cubic Ft Volume of Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Merchantable Timber Vol in CuFt (Conifers >=9" DBH)	Total Biomass in CuFt (Incl Haz Trees)	Total Basal Area of Trees >1" to be Removed	Avg Basal Area per Acre of Trees >1" DBH to be Removed	Total Truck Trips (All Vegetation)	Total Truck Miles (All Vegetation)	Total Carbon Vol in Metric Tonnes CO2-equivalent
Conversion areas	3.6	1	1	550	10,187	7,433	2,755	487.8	134	15	2,400	196
Permanent Conversion	1.0	1	1	157	2,734	1,977	756	132.1	136	4	640	53
Temporary Conversion	2.7	0	0	394	7,454	5,455	1,998	355.7	134	11	1,760	143
625-2	60.7	41	4,245	4,333	58,989	39,980	19,009	2,627.1	43	81	12,960	1,134
Borderzone	43.6	41	4,242	41	4,242	0	4,242	0.0	0	2	320	82
Conversion areas	17.1	1	3	4,293	54,746	39,980	14,766	2,627.1	154	79	12,640	1,052
Permanent Conversion	8.2	1	3	2,028	26,328	19,223	7,105	1,261.1	153	38	6,080	506
Temporary Conversion	8.9	0	0	2,265	28,418	20,757	7,662	1,366.1	154	41	6,560	546
625-3RF	116.5	86	10,144	7,239	114,087	76,583	37,504	4,810.8	41	154	24,640	2,193
Borderzone	86.0	86	10,078	86	10,078	0	10,078	0.0	0	5	800	194
Conversion areas	30.5	1	66	7,154	104,010	76,583	27,426	4,810.8	158	150	24,000	1,999
Permanent Conversion	13.9	1	66	3,188	48,233	35,549	12,684	2,208.4	159	70	11,200	927
Temporary Conversion	16.6	0	0	3,967	55,777	41,035	14,742	2,602.5	157	80	12,800	1,072
625-4RF	29.6	32	5,846	1,968	41,615	26,813	14,802	1,492.6	51	55	8,800	800
Borderzone	21.9	32	5,846	32	5,846	0	5,846	0.0	0	3	480	112
Conversion areas	7.6	0	0	1,937	35,768	26,813	8,956	1,492.6	196	52	8,320	687
Permanent Conversion	3.6	0	0	909	17,624	13,352	4,272	715.9	201	26	4,160	339
Temporary Conversion	4.1	0	0	1,029	18,145	13,461	4,684	776.8	191	27	4,320	349
625-5RF	58.6	16	1,554	3,490	62,630	47,680	14,950	2,721.3	46	92	14,720	1,204
Borderzone	45.1	16	1,554	16	1,554	0	1,554	0.0	0	1	160	30
Conversion areas	13.6	0	0	3,475	61,076	47,680	13,395	2,721.3	201	92	14,720	1,174
Permanent Conversion	7.6	0	0	1,951	33,647	26,220	7,427	1,504.7	199	51	8,160	647
Temporary Conversion	6.0	0	0	1,524	27,429	21,461	5,968	1,216.5	202	42	6,720	527
625-6RF	37.1	26	2,663	2,220	32,785	22,297	10,488	1,429.1	39	45	7,200	630
Borderzone	28.2	26	2,663	26	2,663	0	2,663	0.0	0	2	320	51
Conversion areas	8.9	0	0	2,195	30,121	22,297	7,825	1,429.1	161	44	7,040	579
Permanent Conversion	4.5	0	0	1,190	14,916	10,982	3,934	715.3	160	22	3,520	287
Temporary Conversion	4.4	0	0	1,005	15,205	11,315	3,891	713.8	163	22	3,520	292
625-7RF	65.9	27	2,779	3,445	57,141	39,993	17,148	2,550.1	39	80	12,800	1,098
Borderzone	49.3	27	2,779	27	2,779	0	2,779	0.0	0	2	320	53
Conversion areas	16.6	0	0	3,418	54,362	39,993	14,369	2,550.1	153	78	12,480	1,045
Permanent Conversion	8.2	0	0	1,650	26,544	19,503	7,041	1,244.4	152	39	6,240	510
Temporary Conversion	8.5	0	0	1,769	27,818	20,490	7,328	1,305.6	154	40	6,400	535
625-8RF	24.8	13	1,303	1,649	23,603	16,707	6,896	1,027.8	41	33	5,280	454
Borderzone	18.1	13	1,303	13	1,303	0	1,303	0.0	0	1	160	25
Conversion areas	6.7	0	0	1,637	22,301	16,707	5,594	1,027.8	153	33	5,280	429
Permanent Conversion	3.0	0	0	763	9,997	7,495	2,502	461.8	152	15	2,400	192
Temporary Conversion	3.7	0	0	874	12,303	9,212	3,091	566.0	154	18	2,880	236
650-1ToBeRemoved	4.6	0	0	277	1,874	1,187	686	116.6	25	3	480	36
Borderzone	3.8	0	0	0	0	0	0	0.0	0	0	0	0
Conversion areas	0.9	0	0	277	1,874	1,187	686	116.6	132	3	480	36
Temporary Conversion	0.9	0	0	277	1,874	1,187	686	116.6	132	3	480	36
650-3	121.0	39	6,147	9,111	102,079	63,341	38,738	5,232.0	43	131	20,960	1,962
Borderzone	88.4	39	6,147	39	6,147	0	6,147	0.0	0	3	480	118
Conversion areas	32.6	0	0	9,073	95,932	63,341	32,591	5,232.0	160	128	20,480	1,844
Permanent Conversion	17.6	0	0	4,911	53,550	35,766	17,784	2,861.4	162	72	11,520	1,029
Temporary Conversion	15.0	0	0	4,162	42,381	27,575	14,807	2,370.5	158	56	8,960	815
650-3N	17.8	7	699	1,146	14,112	9,147	4,965	676.2	38	19	3,040	271
Borderzone	14.0	7	699	7	699	0	699	0.0	0	1	160	13
Conversion areas	3.8	0	0	1,139	13,412	9,147	4,266	676.2	177	19	3,040	258
Permanent Conversion	2.4	0	0	702	8,262	5,634	2,628	416.6	176	12	1,920	159
Temporary Conversion	1.5	0	0	438	5,150	3,513	1,638	259.6	177	8	1,280	99
650-4	0.5	0	0	1	0	0	0	0.0	0	1	160	0

Forest Impact Analysis by Alignment and Segment including Borderzone and Conversion Area Delineation

Alignment	Total Forested Acres	Total Hazard Trees	Total Hazard Tree Cubic Foot Volume	Total No. Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Cubic Ft Volume of Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Merchantable Timber Vol in CuFt (Conifers >=9" DBH)	Total Biomass in CuFt (Incl Haz Trees)	Total Basal Area of Trees >1" to be Removed	Avg Basal Area per Acre of Trees >1" DBH to be Removed	Total Truck Trips (All Vegetation)	Total Truck Miles (All Vegetation)	Total Carbon Vol in Metric Tonnes CO2-equivalent
Borderzone	0.5	0	0	0	0	0	0	0.0	0	0	0	0
Conversion areas	0.0	0	0	1	0	0	0	0.0	134	1	160	0
Temporary Conversion	0.0	0	0	1	0	0	0	0.0	134	1	160	0
650-6	13.1	1	17	791	6,512	3,806	2,706	415.6	32	9	1,440	125
Borderzone	9.8	1	17	1	17	0	17	0.0	0	1	160	0
Conversion areas	3.3	0	0	790	6,495	3,806	2,689	415.6	125	9	1,440	125
Permanent Conversion	3.3	0	0	779	6,387	3,739	2,649	409.3	124	8	1,280	123
Temporary Conversion	0.0	0	0	12	108	67	41	6.3	164	1	160	2
650-7	6.4	1	6	581	3,398	1,982	1,416	220.1	35	5	800	65
Borderzone	4.7	1	6	1	6	0	6	0.0	0	1	160	0
Conversion areas	1.6	0	0	581	3,392	1,982	1,410	220.1	134	5	800	65
Permanent Conversion	1.3	0	0	455	2,655	1,551	1,104	172.3	134	4	640	51
Temporary Conversion	0.4	0	0	127	737	431	306	47.8	134	1	160	14
650-7ToBeRemoved	1.4	0	0	98	569	332	236	36.9	27	1	160	11
Borderzone	1.1	0	0	0	0	0	0	0.0	0	0	0	0
Conversion areas	0.3	0	0	98	569	332	236	36.9	134	1	160	11
Temporary Conversion	0.3	0	0	98	569	332	236	36.9	134	1	160	11
D-C OH-1	44.5	7	781	3,792	31,819	20,889	10,930	1,734.6	39	43	6,880	612
Borderzone	32.3	7	781	7	781	0	781	0.0	0	1	160	15
Conversion areas	12.2	0	0	3,785	31,038	20,889	10,149	1,734.6	143	42	6,720	597
Permanent Conversion	9.6	0	0	3,107	24,175	16,139	8,036	1,369.8	143	33	5,280	465
Temporary Conversion	2.6	0	0	679	6,863	4,751	2,113	364.8	141	10	1,600	132
D-C OH-2	43.1	28	3,302	2,565	37,867	25,437	12,430	1,624.7	38	52	8,320	728
Borderzone	32.4	27	3,268	27	3,268	0	3,268	0.0	0	2	320	63
Conversion areas	10.7	1	34	2,538	34,600	25,437	9,162	1,624.7	152	50	8,000	665
Permanent Conversion	8.8	1	34	1,958	28,407	20,911	7,496	1,321.8	150	41	6,560	546
Temporary Conversion	1.9	0	0	580	6,192	4,526	1,666	302.9	159	9	1,440	119
Road	658.2	318	39,600	43,596	601,498	404,849	196,649	27,340.1	42	813	130,080	11,561
625-1RF	6.1	1	118	552	10,334	7,456	2,877	489.2	81	15	2,400	199
Borderzone	2.4	1	117	1	117	0	117	0.0	0	1	160	2
Conversion areas	3.6	1	1	551	10,217	7,456	2,760	489.2	134	15	2,400	196
Permanent Conversion	0.9	1	1	153	2,594	1,867	727	125.3	139	4	640	50
Temporary Conversion	2.7	0	0	399	7,622	5,589	2,033	363.9	133	11	1,760	146
625-2RF	60.7	41	4,241	4,321	58,969	39,968	19,001	2,625.7	43	81	12,960	1,133
Borderzone	43.6	41	4,239	41	4,239	0	4,239	0.0	0	2	320	81
Conversion areas	17.1	1	2	4,281	54,730	39,968	14,762	2,625.7	154	79	12,640	1,052
Permanent Conversion	8.2	1	2	2,022	26,316	19,215	7,101	1,260.2	153	38	6,080	506
Temporary Conversion	8.9	0	0	2,259	28,414	20,753	7,661	1,365.5	154	41	6,560	546
625-3RF	116.5	86	10,142	7,239	114,085	76,583	37,502	4,810.8	41	154	24,640	2,193
Borderzone	86.0	86	10,075	86	10,075	0	10,075	0.0	0	5	800	194
Conversion areas	30.5	1	66	7,154	104,010	76,583	27,426	4,810.8	158	150	24,000	1,999
Permanent Conversion	13.9	1	66	3,188	48,233	35,549	12,684	2,208.4	159	70	11,200	927
Temporary Conversion	16.6	0	0	3,967	55,777	41,035	14,742	2,602.5	157	80	12,800	1,072
625-4RF	29.6	32	5,846	1,968	41,615	26,813	14,802	1,492.6	51	55	8,800	800
Borderzone	21.9	32	5,846	32	5,846	0	5,846	0.0	0	3	480	112
Conversion areas	7.6	0	0	1,937	35,768	26,813	8,956	1,492.6	196	52	8,320	687
Permanent Conversion	3.6	0	0	909	17,624	13,352	4,272	715.9	201	26	4,160	339
Temporary Conversion	4.1	0	0	1,029	18,145	13,461	4,684	776.8	191	27	4,320	349
625-5RF	58.6	16	1,554	3,490	62,630	47,680	14,950	2,721.3	46	92	14,720	1,204
Borderzone	45.1	16	1,554	16	1,554	0	1,554	0.0	0	1	160	30
Conversion areas	13.6	0	0	3,475	61,076	47,680	13,395	2,721.3	201	92	14,720	1,174
Permanent Conversion	7.6	0	0	1,951	33,647	26,220	7,427	1,504.7	199	51	8,160	647
Temporary Conversion	6.0	0	0	1,524	27,429	21,461	5,968	1,216.5	202	42	6,720	527

Forest Impact Analysis by Alignment and Segment including Borderzone and Conversion Area Delineation

Alignment	Total Forested Acres	Total Hazard Trees	Total Hazard Tree Cubic Foot Volume	Total No. Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Cubic Ft Volume of Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Merchantable Timber Vol in CuFt (Conifers >=9" DBH)	Total Biomass in CuFt (Incl Haz Trees)	Total Basal Area of Trees >1" to be Removed	Avg Basal Area per Acre of Trees >1" DBH to be Removed	Total Truck Trips (All Vegetation)	Total Truck Miles (All Vegetation)	Total Carbon Vol in Metric Tonnes CO2-equivalent
625-6RF	37.1	26	2,663	2,220	32,785	22,297	10,488	1,429.1	39	45	7,200	630
Borderzone	28.2	26	2,663	26	2,663	0	2,663	0.0	0	2	320	51
Conversion areas	8.9	0	0	2,195	30,121	22,297	7,825	1,429.1	161	44	7,040	579
Permanent Conversion	4.5	0	0	1,190	14,916	10,982	3,934	715.3	160	22	3,520	287
Temporary Conversion	4.4	0	0	1,005	15,205	11,315	3,891	713.8	163	22	3,520	292
625-7RF	65.9	27	2,779	3,445	57,141	39,993	17,148	2,550.1	39	80	12,800	1,098
Borderzone	49.3	27	2,779	27	2,779	0	2,779	0.0	0	2	320	53
Conversion areas	16.6	0	0	3,418	54,362	39,993	14,369	2,550.1	153	78	12,480	1,045
Permanent Conversion	8.2	0	0	1,650	26,544	19,503	7,041	1,244.4	152	39	6,240	510
Temporary Conversion	8.5	0	0	1,769	27,818	20,490	7,328	1,305.6	154	40	6,400	535
625-8RF	24.8	13	1,303	1,649	23,603	16,707	6,897	1,027.8	41	33	5,280	454
Borderzone	18.1	13	1,303	13	1,303	0	1,303	0.0	0	1	160	25
Conversion areas	6.7	0	0	1,637	22,301	16,707	5,594	1,027.8	153	33	5,280	429
Permanent Conversion	3.0	0	0	763	9,997	7,495	2,502	461.8	152	15	2,400	192
Temporary Conversion	3.7	0	0	874	12,303	9,212	3,091	566.0	154	18	2,880	236
650-1ToBeRemoved	4.6	0	0	277	1,873	1,187	686	116.5	25	3	480	36
Borderzone	3.8	0	0	0	0	0	0	0.0	0	0	0	0
Conversion areas	0.9	0	0	277	1,873	1,187	686	116.5	132	3	480	36
Temporary Conversion	0.9	0	0	277	1,873	1,187	686	116.5	132	3	480	36
650-3	121.0	39	6,147	9,111	102,079	63,341	38,738	5,232.0	43	131	20,960	1,962
Borderzone	88.4	39	6,147	39	6,147	0	6,147	0.0	0	3	480	118
Conversion areas	32.6	0	0	9,073	95,932	63,341	32,591	5,232.0	160	128	20,480	1,844
Permanent Conversion	17.6	0	0	4,911	53,551	35,766	17,785	2,861.5	162	72	11,520	1,029
Temporary Conversion	15.0	0	0	4,162	42,382	27,575	14,807	2,370.5	158	56	8,960	815
650-3N	17.8	7	699	1,146	14,112	9,147	4,965	676.2	38	19	3,040	271
Borderzone	14.0	7	699	7	699	0	699	0.0	0	1	160	13
Conversion areas	3.8	0	0	1,139	13,412	9,147	4,266	676.2	177	19	3,040	258
Permanent Conversion	2.4	0	0	702	8,262	5,634	2,628	416.6	176	12	1,920	159
Temporary Conversion	1.5	0	0	438	5,150	3,513	1,638	259.6	177	8	1,280	99
650-4B	7.0	0	0	358	2,106	1,230	876	136.8	19	3	480	40
Borderzone	6.0	0	0	0	0	0	0	0.0	0	0	0	0
Conversion areas	1.0	0	0	358	2,106	1,230	876	136.8	133	3	480	40
Permanent Conversion	0.3	0	0	123	715	418	297	46.4	134	1	160	14
Temporary Conversion	0.7	0	0	236	1,391	812	579	90.4	133	2	320	27
650-6	13.1	1	17	791	6,512	3,806	2,706	415.6	32	9	1,440	125
Borderzone	9.8	1	17	1	17	0	17	0.0	0	1	160	0
Conversion areas	3.3	0	0	790	6,495	3,806	2,689	415.6	125	9	1,440	125
Permanent Conversion	3.3	0	0	779	6,387	3,739	2,649	409.3	124	8	1,280	123
Temporary Conversion	0.0	0	0	12	108	67	41	6.3	164	1	160	2
650-7	6.4	1	6	581	3,398	1,982	1,416	220.1	35	5	800	65
Borderzone	4.7	1	6	1	6	0	6	0.0	0	1	160	0
Conversion areas	1.6	0	0	581	3,392	1,982	1,410	220.1	134	5	800	65
Permanent Conversion	1.3	0	0	455	2,655	1,551	1,104	172.3	134	4	640	51
Temporary Conversion	0.4	0	0	127	737	431	306	47.8	134	1	160	14
650-7ToBeRemoved	1.4	0	0	98	569	332	236	36.9	27	1	160	11
Borderzone	1.1	0	0	0	0	0	0	0.0	0	0	0	0
Conversion areas	0.3	0	0	98	569	332	236	36.9	134	1	160	11
Temporary Conversion	0.3	0	0	98	569	332	236	36.9	134	1	160	11
D-C OH-1	44.5	7	781	3,792	31,819	20,889	10,930	1,734.6	39	43	6,880	612
Borderzone	32.3	7	781	7	781	0	781	0.0	0	1	160	15
Conversion areas	12.2	0	0	3,785	31,038	20,889	10,149	1,734.6	143	42	6,720	597
Permanent Conversion	9.6	0	0	3,107	24,175	16,139	8,036	1,369.8	143	33	5,280	465
Temporary Conversion	2.6	0	0	679	6,863	4,751	2,113	364.8	141	10	1,600	132

Forest Impact Analysis by Alignment and Segment including Borderzone and Conversion Area Delineation

Alignment	Total Forested Acres	Total Hazard Trees	Total Hazard Tree Cubic Foot Volume	Total No. Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Cubic Ft Volume of Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Merchantable Timber Vol in CuFt (Conifers >=9" DBH)	Total Biomass in CuFt (Incl Haz Trees)	Total Basal Area of Trees >1" to be Removed	Avg Basal Area per Acre of Trees >1" DBH to be Removed	Total Truck Trips (All Vegetation)	Total Truck Miles (All Vegetation)	Total Carbon Vol in Metric Tonnes CO2-equivalent
D-C OH-2	43.1	28	3,302	2,565	37,867	25,437	12,430	1,624.7	38	52	8,320	728
Borderzone	32.4	27	3,268	27	3,268	0	3,268	0.0	0	2	320	63
Conversion areas	10.7	1	34	2,538	34,600	25,437	9,162	1,624.7	152	50	8,000	665
Permanent Conversion	8.8	1	34	1,958	28,407	20,911	7,496	1,321.8	150	41	6,560	546
Temporary Conversion	1.9	0	0	580	6,192	4,526	1,666	302.9	159	9	1,440	119
RoadOpt	645.8	313	39,028	42,494	588,382	395,755	192,627	26,746.0	41	795	127,200	11,309
625-1RF	6.1	1	118	552	10,334	7,456	2,877	489.2	81	15	2,400	199
Borderzone	2.4	1	117	1	117	0	117	0.0	0	1	160	2
Conversion areas	3.6	1	1	551	10,217	7,456	2,760	489.2	134	15	2,400	196
Permanent Conversion	0.9	1	1	153	2,594	1,867	727	125.3	139	4	640	50
Temporary Conversion	2.7	0	0	399	7,622	5,589	2,033	363.9	133	11	1,760	146
625-2RF	60.7	41	4,241	4,321	58,969	39,968	19,001	2,625.7	43	81	12,960	1,133
Borderzone	43.6	41	4,239	41	4,239	0	4,239	0.0	0	2	320	81
Conversion areas	17.1	1	2	4,281	54,730	39,968	14,762	2,625.7	154	79	12,640	1,052
Permanent Conversion	8.2	1	2	2,022	26,316	19,215	7,101	1,260.2	153	38	6,080	506
Temporary Conversion	8.9	0	0	2,259	28,414	20,753	7,661	1,365.5	154	41	6,560	546
625-3RF	116.5	86	10,142	7,239	114,085	76,583	37,502	4,810.8	41	154	24,640	2,193
Borderzone	86.0	86	10,075	86	10,075	0	10,075	0.0	0	5	800	194
Conversion areas	30.5	1	66	7,154	104,010	76,583	27,426	4,810.8	158	150	24,000	1,999
Permanent Conversion	13.9	1	66	3,188	48,233	35,549	12,684	2,208.4	159	70	11,200	927
Temporary Conversion	16.6	0	0	3,967	55,777	41,035	14,742	2,602.5	157	80	12,800	1,072
625-4RF	29.6	32	5,846	1,968	41,615	26,813	14,802	1,492.6	51	55	8,800	800
Borderzone	21.9	32	5,846	32	5,846	0	5,846	0.0	0	3	480	112
Conversion areas	7.6	0	0	1,937	35,768	26,813	8,956	1,492.6	196	52	8,320	687
Permanent Conversion	3.6	0	0	909	17,624	13,352	4,272	715.9	201	26	4,160	339
Temporary Conversion	4.1	0	0	1,029	18,145	13,461	4,684	776.8	191	27	4,320	349
625-5RF	58.6	16	1,554	3,490	62,630	47,680	14,950	2,721.3	46	92	14,720	1,204
Borderzone	45.1	16	1,554	16	1,554	0	1,554	0.0	0	1	160	30
Conversion areas	13.6	0	0	3,475	61,076	47,680	13,395	2,721.3	201	92	14,720	1,174
Permanent Conversion	7.6	0	0	1,951	33,647	26,220	7,427	1,504.7	199	51	8,160	647
Temporary Conversion	6.0	0	0	1,524	27,429	21,461	5,968	1,216.5	202	42	6,720	527
625-6RF	37.1	26	2,663	2,220	32,785	22,297	10,488	1,429.1	39	45	7,200	630
Borderzone	28.2	26	2,663	26	2,663	0	2,663	0.0	0	2	320	51
Conversion areas	8.9	0	0	2,195	30,121	22,297	7,825	1,429.1	161	44	7,040	579
Permanent Conversion	4.5	0	0	1,190	14,916	10,982	3,934	715.3	160	22	3,520	287
Temporary Conversion	4.4	0	0	1,005	15,205	11,315	3,891	713.8	163	22	3,520	292
625-7RF	65.9	27	2,779	3,445	57,141	39,993	17,148	2,550.1	39	80	12,800	1,098
Borderzone	49.3	27	2,779	27	2,779	0	2,779	0.0	0	2	320	53
Conversion areas	16.6	0	0	3,418	54,362	39,993	14,369	2,550.1	153	78	12,480	1,045
Permanent Conversion	8.2	0	0	1,650	26,544	19,503	7,041	1,244.4	152	39	6,240	510
Temporary Conversion	8.5	0	0	1,769	27,818	20,490	7,328	1,305.6	154	40	6,400	535
625-8RF	24.8	13	1,303	1,649	23,604	16,707	6,897	1,027.8	41	33	5,280	454
Borderzone	18.1	13	1,303	13	1,303	0	1,303	0.0	0	1	160	25
Conversion areas	6.7	0	0	1,637	22,301	16,707	5,594	1,027.8	153	33	5,280	429
Permanent Conversion	3.0	0	0	763	9,997	7,495	2,502	461.8	152	15	2,400	192
Temporary Conversion	3.7	0	0	874	12,303	9,212	3,091	566.0	154	18	2,880	236
650-1ToBeRemoved	5.5	0	0	369	2,495	1,582	914	155.3	28	4	640	48
Borderzone	4.3	0	0	0	0	0	0	0.0	0	0	0	0
Conversion areas	1.2	0	0	369	2,495	1,582	914	155.3	132	4	640	48
Temporary Conversion	1.2	0	0	369	2,495	1,582	914	155.3	132	4	640	48
650-3	121.0	39	6,147	9,111	102,079	63,341	38,738	5,232.0	43	131	20,960	1,962
Borderzone	88.4	39	6,147	39	6,147	0	6,147	0.0	0	3	480	118
Conversion areas	32.6	0	0	9,073	95,932	63,341	32,591	5,232.0	160	128	20,480	1,844

Forest Impact Analysis by Alignment and Segment including Borderzone and Conversion Area Delineation

Alignment	Total Forested Acres	Total Hazard Trees	Total Hazard Tree Cubic Foot Volume	Total No. Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Cubic Ft Volume of Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Merchantable Timber Vol in CuFt (Conifers >=9" DBH)	Total Biomass in CuFt (Incl Haz Trees)	Total Basal Area of Trees >1" to be Removed	Avg Basal Area per Acre of Trees >1" DBH to be Removed	Total Truck Trips (All Vegetation)	Total Truck Miles (All Vegetation)	Total Carbon Vol in Metric Tonnes CO2-equivalent
Permanent Conversion	17.6	0	0	4,911	53,550	35,766	17,784	2,861.4	162	72	11,520	1,029
Temporary Conversion	15.0	0	0	4,162	42,381	27,575	14,807	2,370.5	158	56	8,960	815
650-3N	17.8	7	699	1,146	14,112	9,147	4,965	676.2	38	19	3,040	271
Borderzone	14.0	7	699	7	699	0	699	0.0	0	1	160	13
Conversion areas	3.8	0	0	1,139	13,412	9,147	4,266	676.2	177	19	3,040	258
Permanent Conversion	2.4	0	0	702	8,262	5,634	2,628	416.6	176	12	1,920	159
Temporary Conversion	1.5	0	0	438	5,150	3,513	1,638	259.6	177	8	1,280	99
650-4B	7.0	0	0	358	2,106	1,230	876	136.8	19	3	480	40
Borderzone	6.0	0	0	0	0	0	0	0.0	0	0	0	0
Conversion areas	1.0	0	0	358	2,106	1,230	876	136.8	133	3	480	40
Permanent Conversion	0.3	0	0	123	715	418	297	46.4	134	1	160	14
Temporary Conversion	0.7	0	0	236	1,391	812	579	90.4	133	2	320	27
650-6	13.1	1	17	791	6,512	3,806	2,706	415.6	32	9	1,440	125
Borderzone	9.8	1	17	1	17	0	17	0.0	0	1	160	0
Conversion areas	3.3	0	0	790	6,495	3,806	2,689	415.6	125	9	1,440	125
Permanent Conversion	3.3	0	0	779	6,387	3,739	2,649	409.3	124	8	1,280	123
Temporary Conversion	0.0	0	0	12	108	67	41	6.3	164	1	160	2
650-7	6.4	1	6	581	3,398	1,982	1,416	220.1	35	5	800	65
Borderzone	4.7	1	6	1	6	0	6	0.0	0	1	160	0
Conversion areas	1.6	0	0	581	3,392	1,982	1,410	220.1	134	5	800	65
Permanent Conversion	1.3	0	0	455	2,655	1,551	1,104	172.3	134	4	640	51
Temporary Conversion	0.4	0	0	127	737	431	306	47.8	134	1	160	14
650-7ToBeRemoved	1.4	0	0	98	569	332	236	36.9	27	1	160	11
Borderzone	1.1	0	0	0	0	0	0	0.0	0	0	0	0
Conversion areas	0.3	0	0	98	569	332	236	36.9	134	1	160	11
Temporary Conversion	0.3	0	0	98	569	332	236	36.9	134	1	160	11
D-C OH-1A	31.2	2	201	2,598	18,063	11,394	6,670	1,101.4	35	24	3,840	347
Borderzone	22.9	2	201	2	201	0	201	0.0	0	1	160	4
Conversion areas	8.3	0	0	2,597	17,862	11,394	6,469	1,101.4	133	24	3,840	343
Permanent Conversion	8.2	0	0	2,580	17,701	11,278	6,424	1,093.3	133	24	3,840	340
Temporary Conversion	0.1	0	0	17	161	116	45	8.1	155	1	160	3
D-C OH-2	43.1	28	3,310	2,566	37,885	25,444	12,441	1,625.2	38	52	8,320	728
Borderzone	32.5	27	3,276	27	3,276	0	3,276	0.0	0	2	320	63
Conversion areas	10.7	1	34	2,539	34,609	25,444	9,165	1,625.2	152	50	8,000	665
Permanent Conversion	8.8	1	34	1,959	28,417	20,918	7,499	1,322.3	150	41	6,560	546
Temporary Conversion	1.9	0	0	580	6,192	4,526	1,666	302.9	159	9	1,440	119

Forest Impact Analysis by Alignment and Segment including Borderzone and Conversion Area Delineation in Stream Environment Zones (SEZs)

Alignment	Total Forested Acres	Total Hazard Trees	Total Hazard Tree Cubic Foot Volume	Total No. Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Cubic Ft Volume of Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Merchantable Timber Vol in CuFt (Conifers >=9" DBH)	Total Biomass in CuFt (Incl Haz Trees)	Total Basal Area of Trees >1" to be Removed	Avg Basal Area per Acre of Trees >1" DBH to be Removed	Total Truck Trips (All Vegetation)	Total Truck Miles (All Vegetation)	Total Carbon Vol in Metric Tonnes CO2-equivalent
No Action	14.4	8	813	528	5,840	3,566	2,272	256.3	18	8	1,280	112
1: 650-1E only	0.2	0	0	9	58	37	21	3.6	19	1	160	1
Borderzone	0.2	0	0	0	0	0	0	0.0	0	0	0	0
Conversion areas	0.0	0	0	9	58	37	21	3.6	132	1	160	1
Permanent Conversion	0.0	0	0	9	58	37	21	3.6	132	1	160	1
625-1E	0.2	1	11	7	132	90	42	5.7	29	1	160	3
Borderzone	0.2	1	11	1	11	0	11	0.0	0	1	160	0
Conversion areas	0.0	0	0	6	122	90	32	5.7	133	1	160	2
Permanent Conversion	0.0	0	0	6	122	90	32	5.7	133	1	160	2
625-2E	1.9	2	182	64	951	562	389	37.0	19	2	320	18
Borderzone	1.7	2	182	2	182	0	182	0.0	0	1	160	3
Conversion areas	0.2	0	0	62	769	562	207	37.0	154	2	320	15
Permanent Conversion	0.2	0	0	62	769	562	207	37.0	154	2	320	15
625-3E	4.0	4	397	115	1,716	964	752	63.7	16	3	480	33
Borderzone	3.6	4	397	4	397	0	397	0.0	0	1	160	8
Conversion areas	0.4	0	0	111	1,319	964	355	63.7	156	2	320	25
Permanent Conversion	0.4	0	0	111	1,319	964	355	63.7	156	2	320	25
625-5E	0.3	0	0	8	311	251	59	12.0	42	1	160	6
Borderzone	0.2	0	0	0	0	0	0	0.0	0	0	0	0
Conversion areas	0.1	0	0	8	311	251	59	12.0	214	1	160	6
Permanent Conversion	0.1	0	0	8	311	251	59	12.0	214	1	160	6
625-7E	0.1	1	4	8	76	53	23	3.5	63	1	160	1
Borderzone	0.0	1	4	1	4	0	4	0.0	0	1	160	0
Conversion areas	0.0	0	0	7	72	53	19	3.5	160	1	160	1
Permanent Conversion	0.0	0	0	7	72	53	19	3.5	160	1	160	1
625-9E	1.4	2	141	43	573	316	258	21.1	16	1	160	11
Borderzone	1.2	2	141	2	141	0	141	0.0	0	1	160	3
Conversion areas	0.1	0	0	41	432	316	116	21.1	160	1	160	8
Permanent Conversion	0.1	0	0	41	432	316	116	21.1	160	1	160	8
650-1E & 625-10E	6.0	1	49	265	1,803	1,155	647	100.5	17	3	480	35
Borderzone	5.4	1	49	1	49	0	49	0.0	0	1	160	1
Conversion areas	0.7	0	0	264	1,754	1,155	599	100.5	154	3	480	34
Permanent Conversion	0.7	0	0	264	1,754	1,155	599	100.5	154	3	480	34
650-2E	0.4	1	29	16	219	139	80	9.1	26	1	160	4
Borderzone	0.3	1	29	1	29	0	29	0.0	0	1	160	1
Conversion areas	0.1	0	0	15	190	139	51	9.1	155	1	160	4
Permanent Conversion	0.1	0	0	15	190	139	51	9.1	155	1	160	4
Modified	17.4	8	745	1,696	16,471	11,143	5,327	806.8	46	23	3,680	317
1: 650-1 only	0.2	0	0	30	198	126	73	12.3	57	1	160	4
Borderzone	0.1	0	0	0	0	0	0	0.0	0	0	0	0
Conversion areas	0.1	0	0	30	198	126	73	12.3	132	1	160	4
Permanent Conversion	0.1	0	0	30	198	126	73	12.3	132	1	160	4
625-1A	0.2	1	15	6	145	102	43	6.3	25	1	160	3
Borderzone	0.2	1	15	1	15	0	15	0.0	0	1	160	0
Conversion areas	0.1	0	0	5	131	102	29	6.3	103	1	160	3
Permanent Conversion	0.0	0	0	2	67	54	13	3.3	91	1	160	1
Temporary Conversion	0.0	0	0	3	63	48	15	3.0	120	1	160	1
625-2	1.9	2	133	168	2,192	1,503	688	99.0	53	3	480	42
Borderzone	1.2	2	133	2	133	0	133	0.0	0	1	160	3
Conversion areas	0.6	0	0	166	2,058	1,503	555	99.0	154	3	480	40
Permanent Conversion	0.4	0	0	100	1,266	925	342	60.8	154	2	320	24

Forest Impact Analysis by Alignment and Segment including Borderzone and Conversion Area Delineation in Stream Environment Zones (SEZs)

Alignment	Total Forested Acres	Total Hazard Trees	Total Hazard Tree Cubic Foot Volume	Total No. Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Cubic Ft Volume of Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Merchantable Timber Vol in CuFt (Conifers >=9" DBH)	Total Biomass in CuFt (Incl Haz Trees)	Total Basal Area of Trees >1" to be Removed	Avg Basal Area per Acre of Trees >1" DBH to be Removed	Total Truck Trips (All Vegetation)	Total Truck Miles (All Vegetation)	Total Carbon Vol in Metric Tonnes CO2-equivalent
Temporary Conversion	0.2	0	0	66	792	578	213	38.2	155	2	320	15
625-3	4.9	4	393	376	4,722	3,163	1,558	209.7	43	7	1,120	91
Borderzone	3.5	4	381	4	381	0	381	0.0	0	1	160	7
Conversion areas	1.3	1	12	373	4,341	3,163	1,178	209.7	157	7	1,120	83
Permanent Conversion	0.9	1	12	251	2,964	2,157	807	142.8	156	5	800	57
Temporary Conversion	0.4	0	0	123	1,377	1,007	371	67.0	158	2	320	26
625-5	2.3	1	77	147	2,160	1,589	570	95.8	42	4	640	42
Borderzone	1.8	1	75	1	75	0	75	0.0	0	1	160	1
Conversion areas	0.5	1	2	147	2,085	1,589	495	95.8	182	4	640	40
Permanent Conversion	0.4	1	2	103	1,462	1,114	348	67.0	182	3	480	28
Temporary Conversion	0.2	0	0	44	623	475	147	28.7	183	1	160	12
650-1 & D-C OH-3	6.8	1	43	880	5,877	3,861	2,016	330.8	49	8	1,280	113
Borderzone	4.7	1	43	1	43	0	43	0.0	0	1	160	1
Conversion areas	2.1	0	0	879	5,834	3,861	1,973	330.8	158	8	1,280	112
Permanent Conversion	2.1	0	0	879	5,834	3,861	1,973	330.8	158	8	1,280	112
650-2	0.4	1	23	46	609	428	181	28.1	67	1	160	12
Borderzone	0.2	1	23	1	23	0	23	0.0	0	1	160	0
Conversion areas	0.2	0	0	45	586	428	158	28.1	154	1	160	11
Permanent Conversion	0.1	0	0	32	405	296	109	19.4	154	1	160	8
Temporary Conversion	0.1	0	0	14	181	132	49	8.7	153	1	160	3
D-C OH-4	0.7	1	61	49	567	370	197	24.8	36	1	160	11
Borderzone	0.5	1	61	1	61	0	61	0.0	0	1	160	1
Conversion areas	0.2	0	0	48	506	370	136	24.8	160	1	160	10
Permanent Conversion	0.2	0	0	48	506	370	136	24.8	160	1	160	10
PEA	17.4	8	737	1,721	16,911	11,466	5,444	827.5	48	23	3,680	325
1: 650-1 only	0.2	0	0	30	198	126	73	12.3	57	1	160	4
Borderzone	0.1	0	0	0	0	0	0	0.0	0	0	0	0
Conversion areas	0.1	0	0	30	198	126	73	12.3	132	1	160	4
Permanent Conversion	0.1	0	0	30	198	126	73	12.3	132	1	160	4
625-1	0.2	1	8	19	408	297	111	18.7	75	1	160	8
Borderzone	0.1	1	8	1	8	0	8	0.0	0	1	160	0
Conversion areas	0.1	0	0	18	401	297	104	18.7	132	1	160	8
Permanent Conversion	0.1	0	0	12	265	197	68	12.3	132	1	160	5
Temporary Conversion	0.0	0	0	6	136	101	35	6.3	132	1	160	3
625-10 & 650-1	6.8	1	43	885	5,907	3,882	2,025	332.3	49	8	1,280	114
Borderzone	4.7	1	43	1	43	0	43	0.0	0	1	160	1
Conversion areas	2.1	0	0	884	5,864	3,882	1,983	332.3	158	8	1,280	113
Permanent Conversion	2.0	0	0	816	5,411	3,567	1,844	309.3	155	8	1,280	104
Temporary Conversion	0.1	0	0	68	454	315	139	23.1	203	1	160	9
625-2	1.9	2	133	168	2,192	1,503	688	99.0	53	3	480	42
Borderzone	1.2	2	133	2	133	0	133	0.0	0	1	160	3
Conversion areas	0.6	0	0	166	2,058	1,503	555	99.0	154	3	480	40
Permanent Conversion	0.4	0	0	100	1,266	925	342	60.8	154	2	320	24
Temporary Conversion	0.2	0	0	66	792	578	213	38.2	155	2	320	15
625-3	4.9	4	393	376	4,722	3,163	1,558	209.7	43	7	1,120	91
Borderzone	3.5	4	381	4	381	0	381	0.0	0	1	160	7
Conversion areas	1.3	1	12	373	4,341	3,163	1,178	209.7	157	7	1,120	83
Permanent Conversion	0.9	1	12	251	2,964	2,157	807	142.8	156	5	800	57
Temporary Conversion	0.4	0	0	123	1,377	1,007	371	67.0	158	2	320	26
625-5	2.3	1	77	147	2,160	1,589	570	95.8	42	4	640	42
Borderzone	1.8	1	75	1	75	0	75	0.0	0	1	160	1
Conversion areas	0.5	1	2	147	2,085	1,589	495	95.8	182	4	640	40

Forest Impact Analysis by Alignment and Segment including Borderzone and Conversion Area Delineation in Stream Environment Zones (SEZs)

Alignment	Total Forested Acres	Total Hazard Trees	Total Hazard Tree Cubic Foot Volume	Total No. Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Cubic Ft Volume of Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Merchantable Timber Vol in CuFt (Conifers >=9" DBH)	Total Biomass in CuFt (Incl Haz Trees)	Total Basal Area of Trees >1" to be Removed	Avg Basal Area per Acre of Trees >1" DBH to be Removed	Total Truck Trips (All Vegetation)	Total Truck Miles (All Vegetation)	Total Carbon Vol in Metric Tonnes CO2-equivalent
Permanent Conversion	0.4	1	2	103	1,462	1,114	348	67.0	182	3	480	28
Temporary Conversion	0.2	0	0	44	623	475	147	28.7	183	1	160	12
625-9	0.7	1	61	49	567	370	197	24.8	36	1	160	11
Borderzone	0.5	1	61	1	61	0	61	0.0	0	1	160	1
Conversion areas	0.2	0	0	48	506	370	136	24.8	160	1	160	10
Permanent Conversion	0.1	0	0	30	311	228	84	15.2	160	1	160	6
Temporary Conversion	0.1	0	0	19	195	142	52	9.5	160	1	160	4
650-2	0.4	1	23	54	757	536	221	34.9	83	2	320	15
Borderzone	0.2	1	19	1	19	0	19	0.0	0	1	160	0
Conversion areas	0.2	1	4	54	738	536	202	34.9	152	2	320	14
Permanent Conversion	0.2	1	4	43	593	430	163	28.0	152	1	160	11
Temporary Conversion	0.0	0	0	11	145	106	39	6.9	154	1	160	3
Preferred	16.7	8	815	1,542	14,758	9,797	4,960	723.1	43	20	3,200	284
625-1	0.2	1	8	19	408	297	111	18.7	75	1	160	8
Borderzone	0.1	1	8	1	8	0	8	0.0	0	1	160	0
Conversion areas	0.1	0	0	18	401	297	104	18.7	132	1	160	8
Permanent Conversion	0.1	0	0	12	265	197	68	12.3	132	1	160	5
Temporary Conversion	0.0	0	0	6	136	101	35	6.3	132	1	160	3
625-2	1.9	2	134	167	2,185	1,498	687	98.6	53	3	480	42
Borderzone	1.2	2	134	2	134	0	134	0.0	0	1	160	3
Conversion areas	0.6	0	0	165	2,051	1,498	553	98.6	154	3	480	39
Permanent Conversion	0.4	0	0	100	1,262	922	340	60.6	154	2	320	24
Temporary Conversion	0.2	0	0	66	789	576	213	38.1	155	2	320	15
625-3RF	5.9	5	517	410	5,038	3,304	1,733	220.1	37	7	1,120	97
Borderzone	4.5	5	505	5	505	0	505	0.0	0	1	160	10
Conversion areas	1.4	1	12	406	4,533	3,304	1,229	220.1	158	7	1,120	87
Permanent Conversion	0.9	1	12	272	3,080	2,242	838	149.1	158	5	800	59
Temporary Conversion	0.4	0	0	135	1,453	1,062	391	71.0	159	3	480	28
625-5RF	1.3	1	87	52	726	478	249	29.8	24	1	160	14
Borderzone	1.1	1	87	1	87	0	87	0.0	0	1	160	2
Conversion areas	0.2	0	0	51	639	478	161	29.8	166	1	160	12
Permanent Conversion	0.1	0	0	28	354	265	89	16.4	167	1	160	7
Temporary Conversion	0.1	0	0	24	285	212	73	13.4	166	1	160	5
D-C OH-1	7.0	1	47	845	5,643	3,684	1,960	321.0	46	8	1,280	108
Borderzone	4.9	1	47	1	47	0	47	0.0	0	1	160	1
Conversion areas	2.1	0	0	844	5,597	3,684	1,913	321.0	154	8	1,280	108
Permanent Conversion	2.1	0	0	844	5,597	3,684	1,913	321.0	154	8	1,280	108
D-C OH-2	0.4	1	23	54	757	536	221	34.9	83	2	320	15
Borderzone	0.2	1	19	1	19	0	19	0.0	0	1	160	0
Conversion areas	0.2	1	4	54	738	536	202	34.9	152	2	320	14
Permanent Conversion	0.2	1	4	54	738	536	202	34.9	152	2	320	14
Road	16.7	8	815	1,543	14,770	9,806	4,962	723.7	43	20	3,200	284
625-1RF	0.2	1	7	19	421	308	113	19.3	78	1	160	8
Borderzone	0.1	1	7	1	7	0	7	0.0	0	1	160	0
Conversion areas	0.1	0	0	18	414	308	106	19.3	130	1	160	8
Permanent Conversion	0.1	0	0	12	266	198	69	12.4	132	1	160	5
Temporary Conversion	0.1	0	0	7	147	110	37	6.9	127	1	160	3
625-2RF	1.9	2	135	167	2,184	1,496	688	98.6	53	3	480	42
Borderzone	1.2	2	135	2	135	0	135	0.0	0	1	160	3
Conversion areas	0.6	0	0	165	2,049	1,496	552	98.6	154	3	480	39
Permanent Conversion	0.4	0	0	99	1,260	920	340	60.5	154	2	320	24
Temporary Conversion	0.2	0	0	66	789	576	213	38.1	156	2	320	15

Forest Impact Analysis by Alignment and Segment including Borderzone and Conversion Area Delineation in Stream Environment Zones (SEZs)

Alignment	Total Forested Acres	Total Hazard Trees	Total Hazard Tree Cubic Foot Volume	Total No. Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Cubic Ft Volume of Trees >1" DBH to be Removed (Incl Hazard Trees)	Total Merchantable Timber Vol in CuFt (Conifers >=9" DBH)	Total Biomass in CuFt (Incl Haz Trees)	Total Basal Area of Trees >1" to be Removed	Avg Basal Area per Acre of Trees >1" DBH to be Removed	Total Truck Trips (All Vegetation)	Total Truck Miles (All Vegetation)	Total Carbon Vol in Metric Tonnes CO2-equivalent
625-3RF	5.9	5	515	410	5,037	3,304	1,732	220.1	37	7	1,120	97
Borderzone	4.5	5	503	5	503	0	503	0.0	0	1	160	10
Conversion areas	1.4	1	12	406	4,533	3,304	1,229	220.1	158	7	1,120	87
Permanent Conversion	0.9	1	12	272	3,080	2,242	838	149.1	158	5	800	59
Temporary Conversion	0.4	0	0	135	1,453	1,062	391	71.0	159	3	480	28
625-5RF	1.3	1	87	52	726	478	249	29.8	24	1	160	14
Borderzone	1.1	1	87	1	87	0	87	0.0	0	1	160	2
Conversion areas	0.2	0	0	51	639	478	161	29.8	166	1	160	12
Permanent Conversion	0.1	0	0	28	354	265	89	16.4	167	1	160	7
Temporary Conversion	0.1	0	0	24	285	212	73	13.4	166	1	160	5
D-C OH-1	7.0	1	47	845	5,643	3,684	1,960	321.0	46	8	1,280	108
Borderzone	4.9	1	47	1	47	0	47	0.0	0	1	160	1
Conversion areas	2.1	0	0	844	5,597	3,684	1,913	321.0	154	8	1,280	108
Permanent Conversion	2.1	0	0	844	5,597	3,684	1,913	321.0	154	8	1,280	108
D-C OH-2	0.4	1	23	54	757	536	221	34.9	83	2	320	15
Borderzone	0.2	1	19	1	19	0	19	0.0	0	1	160	0
Conversion areas	0.2	1	4	54	738	536	202	34.9	152	2	320	14
Permanent Conversion	0.2	1	4	54	738	536	202	34.9	152	2	320	14
RoadOpt	11.5	8	768	812	9,890	6,607	3,283	450.3	39	14	2,240	190
625-1RF	0.2	1	7	19	421	308	113	19.3	78	1	160	8
Borderzone	0.1	1	7	1	7	0	7	0.0	0	1	160	0
Conversion areas	0.1	0	0	18	414	308	106	19.3	130	1	160	8
Permanent Conversion	0.1	0	0	12	266	198	69	12.4	132	1	160	5
Temporary Conversion	0.1	0	0	7	147	110	37	6.9	127	1	160	3
625-2RF	1.9	2	135	167	2,184	1,496	688	98.6	53	3	480	42
Borderzone	1.2	2	135	2	135	0	135	0.0	0	1	160	3
Conversion areas	0.6	0	0	165	2,049	1,496	552	98.6	154	3	480	39
Permanent Conversion	0.4	0	0	99	1,260	920	340	60.5	154	2	320	24
Temporary Conversion	0.2	0	0	66	789	576	213	38.1	156	2	320	15
625-3RF	5.9	5	515	410	5,037	3,304	1,732	220.1	37	7	1,120	97
Borderzone	4.5	5	503	5	503	0	503	0.0	0	1	160	10
Conversion areas	1.4	1	12	406	4,533	3,304	1,229	220.1	158	7	1,120	87
Permanent Conversion	0.9	1	12	272	3,080	2,242	838	149.1	158	5	800	59
Temporary Conversion	0.4	0	0	135	1,453	1,062	391	71.0	159	3	480	28
625-5RF	1.3	1	87	52	726	478	249	29.8	24	1	160	14
Borderzone	1.1	1	87	1	87	0	87	0.0	0	1	160	2
Conversion areas	0.2	0	0	51	639	478	161	29.8	166	1	160	12
Permanent Conversion	0.1	0	0	28	354	265	89	16.4	167	1	160	7
Temporary Conversion	0.1	0	0	24	285	212	73	13.4	166	1	160	5
650-1ToBeRemoved	0.2	0	0	0	0	0	0	0.0	0	0	0	0
Borderzone	0.2	0	0	0	0	0	0	0.0	0	0	0	0
D-C OH-1A	1.6	0	0	113	765	485	280	47.6	29	1	160	15
Borderzone	1.3	0	0	0	0	0	0	0.0	0	0	0	0
Conversion areas	0.4	0	0	113	765	485	280	47.6	132	1	160	15
Permanent Conversion	0.4	0	0	113	765	485	280	47.6	132	1	160	15
D-C OH-2	0.4	1	23	54	757	536	221	34.9	83	2	320	15
Borderzone	0.2	1	19	1	19	0	19	0.0	0	1	160	0
Conversion areas	0.2	1	4	54	738	536	202	34.9	152	2	320	14
Permanent Conversion	0.2	1	4	54	738	536	202	34.9	152	2	320	14

Existing 625 Removal Impacts

Table 8: Existing 625 Line Abandonment Potential Re-Grow Acres*

Alternative	Potential 625 Line Regrow Acres
No Action	N/A
Modified	23.6
PEA	25.2
Preferred	29.1
Road	29.1
RoadOpt	29.3

*As stated in the Report, these acres are an OVERESTIMATION because not all areas of the Existing 625 Line are suitable for growing trees

Table 9: Existing 625 Line Removal String Sites**

Alternative	Temporary Forested Conversion Acres	Number of Trees >1" DBH to be Removed	Total Cubic-foot Volume of Trees >1" DBH to be Removed	Total Merchantable Timber Vol in CuFt (Conifers >=9" DBH)	Total Biomass in CuFt (Incl Haz Trees)	Total Truck Trips (All Vegetation)	Total Truck Miles (All Vegetation)	Total Carbon Vol in Metric Tonnes CO2-equivalent
No Action	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Modified	8.8	2,284	38,438	29,219	9,219	53	8,480	739
PEA	9.9	2,812	45,864	34,827	11,037	63	10,080	882
Preferred	14.4	3,852	66,671	51,215	15,456	92	14,720	1,281
Road	14.4	3,852	66,671	51,215	15,456	92	14,720	1,281
RoadOpt	15.9	4,313	69,800	53,195	16,605	95	15,200	1,342

**As stated in the Report, these impacts must be ADDED to each Alternative impact for a complete forest impact analysis

California Department of Fish and Wildlife Wildlife Habitat Relationships Impact Acres and Total Acres*

Alignment and Segment	Total Forested Acres
No Action	667.7
1: 625-10E only	14.1
Borderzone	12.9
Conversion areas	1.2
Permanent Conversion	1.2
Sierran Mixed Conifer	1.1
White fir	0.0
1: 650-1E only	17.3
Borderzone	16.1
Conversion areas	1.2
Permanent Conversion	1.2
Jeffrey Pine	0.7
Sierran Mixed Conifer	0.2
White fir	0.2
2: 650-1E only	4.2
Borderzone	3.9
Conversion areas	0.3
Permanent Conversion	0.3
Jeffrey Pine	0.3
625-1E	3.4
Borderzone	3.0
Conversion areas	0.5
Permanent Conversion	0.5
Jeffrey Pine	0.1
Sierran Mixed Conifer	0.4
White fir	0.0
625-2E	53.5
Borderzone	49.4
Conversion areas	4.2
Permanent Conversion	4.2
Sierran Mixed Conifer	3.0
White fir	1.2
625-3E	110.6
Borderzone	102.7
Conversion areas	7.8
Permanent Conversion	7.8
Red fir	1.5
Sierran Mixed Conifer	5.5
White fir	0.8
625-4E	23.3
Borderzone	21.8
Conversion areas	1.5
Permanent Conversion	1.5
Red fir	1.1
Sierran Mixed Conifer	0.1
White fir	0.3
625-5E	46.4
Borderzone	43.1
Conversion areas	3.3
Permanent Conversion	3.3
Lodgepole Pine	0.1
Red fir	2.7
Sierran Mixed Conifer	0.5
625-6E	27.7
Borderzone	25.7
Conversion areas	2.0
Permanent Conversion	2.0
Red fir	0.1
Sierran Mixed Conifer	1.9
625-7E	54.7
Borderzone	50.7
Conversion areas	4.0
Permanent Conversion	4.0

Alignment and Segment	Total Acres	Total Forested Acres
No Action	871.1	667.7
1: 625-10E only	14.8	14.1
Borderzone	13.5	12.9
Conversion areas	1.2	1.2
Permanent Conversion	1.2	1.2
1: 650-1E only	18.8	17.3
Borderzone	17.4	16.1
Conversion areas	1.3	1.2
Permanent Conversion	1.3	1.2
2: 650-1E only	5.4	4.2
Borderzone	5.0	3.9
Conversion areas	0.5	0.3
Permanent Conversion	0.5	0.3
625-1E	15.5	3.4
Borderzone	14.2	3.0
Conversion areas	1.3	0.5
Permanent Conversion	1.3	0.5
625-2E	54.2	53.5
Borderzone	50.0	49.4
Conversion areas	4.2	4.2
Permanent Conversion	4.2	4.2
625-3E	117.1	110.6
Borderzone	108.4	102.7
Conversion areas	8.7	7.8
Permanent Conversion	8.7	7.8
625-4E	27.0	23.3
Borderzone	25.0	21.8
Conversion areas	2.0	1.5
Permanent Conversion	2.0	1.5
625-5E	57.3	46.4
Borderzone	53.1	43.1
Conversion areas	4.2	3.3
Permanent Conversion	4.2	3.3
625-6E	28.1	27.7
Borderzone	26.1	25.7
Conversion areas	2.1	2.0
Permanent Conversion	2.1	2.0
625-7E	55.3	54.7
Borderzone	51.3	50.7
Conversion areas	4.0	4.0
Permanent Conversion	4.0	4.0
625-8E	23.2	22.7
Borderzone	21.2	20.8
Conversion areas	2.0	1.9
Permanent Conversion	2.0	1.9
625-9E	78.1	77.0
Borderzone	72.2	71.4
Conversion areas	5.9	5.6
Permanent Conversion	5.9	5.6
650-1E & 625-10E	25.2	23.7
Borderzone	23.4	21.8
Conversion areas	1.9	1.8
Permanent Conversion	1.9	1.8
650-2E	65.3	40.6
Borderzone	60.7	38.1
Conversion areas	4.6	2.5
Permanent Conversion	4.6	2.5
650-3E	149.7	112.0
Borderzone	139.0	103.2
Conversion areas	10.7	8.8
Permanent Conversion	10.7	8.8
650-3NE	17.5	16.6
Borderzone	16.3	15.4

California Department of Fish and Wildlife Wildlife Habitat Relationships Impact Acres and Total Acres*

Alignment and Segment	Total Forested Acres
Red fir	0.3
Sierran Mixed Conifer	1.8
White fir	1.8
625-8E	22.7
Borderzone	20.8
Conversion areas	1.9
Permanent Conversion	1.9
Sierran Mixed Conifer	0.5
White fir	1.4
625-9E	77.0
Borderzone	71.4
Conversion areas	5.6
Permanent Conversion	5.6
Red fir	1.7
Sierran Mixed Conifer	3.5
White fir	0.4
650-1E & 625-10E	23.7
Borderzone	21.8
Conversion areas	1.8
Permanent Conversion	1.8
Jeffrey Pine	1.6
Sierran Mixed Conifer	0.2
650-2E	40.6
Borderzone	38.1
Conversion areas	2.5
Permanent Conversion	2.5
Jeffrey Pine	0.3
Sierran Mixed Conifer	2.1
White fir	0.2
650-3E	112.0
Borderzone	103.2
Conversion areas	8.8
Permanent Conversion	8.8
Eastside Pine	2.0
Red fir	0.4
Sierran Mixed Conifer	5.5
White fir	0.8
650-3NE	16.6
Borderzone	15.4
Conversion areas	1.2
Permanent Conversion	1.2
Eastside Pine	0.1
Sierran Mixed Conifer	1.1
650-4E	0.5
Borderzone	0.5
650-6E	12.1
Borderzone	11.0
Conversion areas	1.0
Permanent Conversion	1.0
Eastside Pine	1.0
650-7E	7.3
Borderzone	6.8
Conversion areas	0.5
Permanent Conversion	0.5
Eastside Pine	0.5
Modified	751.7
1: 650-1 only	18.4
Borderzone	14.5
Conversion areas	3.9
Permanent Conversion	3.9
Jeffrey Pine	2.4
Sierran Mixed Conifer	0.8
White fir	0.7
2: 650-1 only	4.5

Alignment and Segment	Total Acres	Total Forested Acres
Conversion areas	1.3	1.2
Permanent Conversion	1.3	1.2
650-4E	58.0	0.5
Borderzone	53.9	0.5
Conversion areas	4.1	0.0
Permanent Conversion	4.1	0.0
650-6E	38.1	12.1
Borderzone	35.4	11.0
Conversion areas	2.7	1.0
Permanent Conversion	2.7	1.0
650-7E	22.3	7.3
Borderzone	20.8	6.8
Conversion areas	1.5	0.5
Permanent Conversion	1.5	0.5
Modified	972.6	751.7
1: 650-1 only	20.2	18.4
Borderzone	15.7	14.5
Conversion areas	4.5	3.9
Permanent Conversion	4.5	3.9
2: 650-1 only	5.9	4.5
Borderzone	4.6	3.6
Conversion areas	1.4	0.9
Permanent Conversion	1.4	0.9
625-1A	19.3	6.2
Borderzone	12.6	2.6
Conversion areas	6.8	3.7
Permanent Conversion	2.5	1.0
Temporary Conversion	4.3	2.7
625-2	61.1	60.7
Borderzone	43.9	43.6
Conversion areas	17.2	17.1
Permanent Conversion	8.3	8.2
Temporary Conversion	8.9	8.9
625-3	132.1	115.6
Borderzone	93.3	81.8
Conversion areas	38.9	33.8
Permanent Conversion	21.2	19.0
Temporary Conversion	17.6	14.8
625-4A	28.7	27.6
Borderzone	21.4	20.4
Conversion areas	7.2	7.2
Permanent Conversion	4.4	4.4
Temporary Conversion	2.9	2.8
625-5	66.5	59.4
Borderzone	47.3	41.5
Conversion areas	19.1	17.8
Permanent Conversion	9.7	9.1
Temporary Conversion	9.4	8.7
625-6A	39.0	36.4
Borderzone	29.0	28.3
Conversion areas	10.0	8.0
Permanent Conversion	5.3	4.2
Temporary Conversion	4.7	3.9
625-7	67.9	64.9
Borderzone	49.1	47.0
Conversion areas	18.8	17.9
Permanent Conversion	11.7	11.2
Temporary Conversion	7.1	6.6
625-8A	28.1	27.0
Borderzone	18.0	17.6
Conversion areas	10.1	9.4
Permanent Conversion	5.0	5.0
Temporary Conversion	5.1	4.4
650-1 & D-C OH-3	28.0	26.5

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Alignment and Segment	Total Forested Acres
Borderzone	3.6
Conversion areas	0.9
Permanent Conversion	0.9
Jeffrey Pine	0.9
625-1A	6.2
Borderzone	2.6
Conversion areas	3.7
Permanent Conversion	1.0
Jeffrey Pine	0.2
Sierran Mixed Conifer	0.8
White fir	0.0
Temporary Conversion	2.7
Jeffrey Pine	0.3
Sierran Mixed Conifer	2.2
White fir	0.2
625-2	60.7
Borderzone	43.6
Conversion areas	17.1
Permanent Conversion	8.2
Sierran Mixed Conifer	6.1
White fir	2.2
Temporary Conversion	8.9
Sierran Mixed Conifer	7.2
White fir	1.7
625-3	115.6
Borderzone	81.8
Conversion areas	33.8
Permanent Conversion	19.0
Red fir	2.2
SCN	0.2
Sierran Mixed Conifer	12.6
White fir	4.0
Temporary Conversion	14.8
Red fir	1.4
SCN	0.2
Sierran Mixed Conifer	10.3
White fir	2.9
625-4A	27.6
Borderzone	20.4
Conversion areas	7.2
Permanent Conversion	4.4
Red fir	3.6
SCN	0.4
Sierran Mixed Conifer	0.5
Temporary Conversion	2.8
Red fir	1.9
SCN	0.4
Sierran Mixed Conifer	0.6
625-5	59.4
Borderzone	41.5
Conversion areas	17.8
Permanent Conversion	9.1
Red fir	6.6
Sierran Mixed Conifer	2.5
Temporary Conversion	8.7
Red fir	6.4
Sierran Mixed Conifer	2.4
625-6A	36.4
Borderzone	28.3
Conversion areas	8.0
Permanent Conversion	4.2
Sierran Mixed Conifer	4.1
White fir	0.0
Temporary Conversion	3.9

Alignment and Segment	Total Acres	Total Forested Acres
Borderzone	20.6	19.1
Conversion areas	7.4	7.4
Permanent Conversion	6.3	6.2
Temporary Conversion	1.2	1.2
650-2	70.0	43.2
Borderzone	54.9	34.9
Conversion areas	15.1	8.3
Permanent Conversion	9.3	5.1
Temporary Conversion	5.8	3.2
650-3	160.4	120.8
Borderzone	119.7	88.2
Conversion areas	40.7	32.6
Permanent Conversion	21.5	17.6
Temporary Conversion	19.2	15.0
650-3N	18.9	17.8
Borderzone	14.8	14.0
Conversion areas	4.1	3.8
Permanent Conversion	2.5	2.4
Temporary Conversion	1.6	1.5
650-4A	58.4	0.5
Borderzone	44.0	0.5
Conversion areas	14.5	0.0
Permanent Conversion	7.7	0.0
Temporary Conversion	6.8	
650-6	41.0	13.1
Borderzone	31.0	9.8
Conversion areas	10.0	3.3
Permanent Conversion	8.8	3.3
Temporary Conversion	1.3	0.0
650-7	23.7	7.8
Borderzone	17.2	5.8
Conversion areas	6.4	1.9
Permanent Conversion	4.9	1.6
Temporary Conversion	1.5	0.4
D-C OH-3 only	18.1	17.2
Borderzone	12.3	11.7
Conversion areas	5.8	5.4
Permanent Conversion	4.1	3.8
Temporary Conversion	1.7	1.6
D-C OH-4	85.5	84.3
Borderzone	61.8	61.0
Conversion areas	23.7	23.3
Permanent Conversion	21.6	21.3
Temporary Conversion	2.0	2.0
PEA	978.4	752.4
1: 650-1 only	20.2	18.4
Borderzone	15.7	14.5
Conversion areas	4.5	3.9
Permanent Conversion	4.5	3.9
2: 650-1 only	5.8	4.4
Borderzone	4.6	3.6
Conversion areas	1.2	0.8
Permanent Conversion	1.2	0.8
625-1	19.7	6.3
Borderzone	12.9	2.7
Conversion areas	6.8	3.6
Permanent Conversion	2.5	1.0
Temporary Conversion	4.2	2.7
625-10 & 650-1	28.3	26.8
Borderzone	20.6	19.1
Conversion areas	7.7	7.7
Permanent Conversion	5.9	5.8
Temporary Conversion	1.9	1.9
625-10 only	18.1	17.2

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Alignment and Segment	Total Forested Acres
Sierran Mixed Conifer	3.7
White fir	0.2
625-7	64.9
Borderzone	47.0
Conversion areas	17.9
Permanent Conversion	11.2
Red fir	0.9
Sierran Mixed Conifer	5.6
White fir	4.8
Temporary Conversion	6.6
Red fir	0.4
Sierran Mixed Conifer	4.7
White fir	1.6
625-8A	27.0
Borderzone	17.6
Conversion areas	9.4
Permanent Conversion	5.0
Sierran Mixed Conifer	1.4
White fir	3.6
Temporary Conversion	4.4
Sierran Mixed Conifer	0.9
White fir	3.5
650-1 & D-C OH-3	26.5
Borderzone	19.1
Conversion areas	7.4
Permanent Conversion	6.2
Jeffrey Pine	5.4
Sierran Mixed Conifer	0.9
Temporary Conversion	1.2
Jeffrey Pine	1.2
650-2	43.2
Borderzone	34.9
Conversion areas	8.3
Permanent Conversion	5.1
Jeffrey Pine	0.6
Sierran Mixed Conifer	4.2
White fir	0.4
Temporary Conversion	3.2
Jeffrey Pine	0.4
Sierran Mixed Conifer	2.6
White fir	0.2
650-3	120.8
Borderzone	88.2
Conversion areas	32.6
Permanent Conversion	17.6
Eastside Pine	4.1
Red fir	0.7
Sierran Mixed Conifer	11.1
White fir	1.7
Temporary Conversion	15.0
Eastside Pine	4.6
MHW	0.0
Red fir	0.5
Sierran Mixed Conifer	8.9
White fir	1.0
650-3N	17.8
Borderzone	14.0
Conversion areas	3.8
Permanent Conversion	2.4
Eastside Pine	0.2
Sierran Mixed Conifer	2.2
Temporary Conversion	1.5
Eastside Pine	0.1
Sierran Mixed Conifer	1.4

Alignment and Segment	Total Acres	Total Forested Acres
Borderzone	12.3	11.7
Conversion areas	5.8	5.5
Permanent Conversion	2.6	2.4
Temporary Conversion	3.2	3.0
625-2	61.1	60.7
Borderzone	43.9	43.6
Conversion areas	17.2	17.1
Permanent Conversion	8.3	8.2
Temporary Conversion	8.9	8.9
625-3	132.2	115.6
Borderzone	93.2	81.7
Conversion areas	38.9	33.9
Permanent Conversion	21.2	19.0
Temporary Conversion	17.7	14.8
625-4	29.6	27.9
Borderzone	21.6	20.2
Conversion areas	8.1	7.8
Permanent Conversion	4.8	4.7
Temporary Conversion	3.2	3.0
625-5	66.2	59.2
Borderzone	47.1	41.4
Conversion areas	19.1	17.8
Permanent Conversion	9.7	9.1
Temporary Conversion	9.4	8.7
625-6	39.5	37.5
Borderzone	28.9	27.3
Conversion areas	10.6	10.3
Permanent Conversion	6.0	5.8
Temporary Conversion	4.6	4.4
625-7	67.7	64.8
Borderzone	49.4	47.4
Conversion areas	18.3	17.4
Permanent Conversion	11.7	11.2
Temporary Conversion	6.7	6.2
625-8	28.5	26.2
Borderzone	18.7	17.7
Conversion areas	9.8	8.6
Permanent Conversion	5.0	4.6
Temporary Conversion	4.8	4.0
625-9	85.5	84.3
Borderzone	61.8	61.0
Conversion areas	23.7	23.3
Permanent Conversion	14.8	14.6
Temporary Conversion	8.8	8.7
650-2	70.0	43.2
Borderzone	52.1	32.5
Conversion areas	17.8	10.7
Permanent Conversion	10.4	5.9
Temporary Conversion	7.4	4.8
650-3	160.3	120.8
Borderzone	119.6	88.2
Conversion areas	40.7	32.6
Permanent Conversion	21.5	17.6
Temporary Conversion	19.2	15.0
650-3N	18.9	17.8
Borderzone	14.8	14.0
Conversion areas	4.1	3.8
Permanent Conversion	2.5	2.4
Temporary Conversion	1.6	1.5
650-4	62.1	0.5
Borderzone	47.0	0.5
Conversion areas	15.2	0.0
Permanent Conversion	8.2	0.0
Temporary Conversion	7.0	

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Alignment and Segment	Total Forested Acres
650-4A	0.5
Borderzone	0.5
Conversion areas	0.0
Temporary Conversion	0.0
Eastside Pine	0.0
650-6	13.1
Borderzone	9.8
Conversion areas	3.3
Permanent Conversion	3.3
Eastside Pine	3.3
Temporary Conversion	0.0
Eastside Pine	0.0
650-7	7.8
Borderzone	5.8
Conversion areas	1.9
Permanent Conversion	1.6
Eastside Pine	1.6
Temporary Conversion	0.4
Eastside Pine	0.4
D-C OH-3 only	17.2
Borderzone	11.7
Conversion areas	5.4
Permanent Conversion	3.8
Sierran Mixed Conifer	3.8
White fir	0.0
Temporary Conversion	1.6
Sierran Mixed Conifer	1.5
White fir	0.2
D-C OH-4	84.3
Borderzone	61.0
Conversion areas	23.3
Permanent Conversion	21.3
Jeffrey Pine	1.6
Red fir	6.3
Sierran Mixed Conifer	12.0
White fir	1.5
Temporary Conversion	2.0
Red fir	0.6
Sierran Mixed Conifer	0.5
White fir	0.8
PEA	752.4
1: 650-1 only	18.4
Borderzone	14.5
Conversion areas	3.9
Permanent Conversion	3.9
Jeffrey Pine	2.4
Sierran Mixed Conifer	0.8
White fir	0.7
2: 650-1 only	4.4
Borderzone	3.6
Conversion areas	0.8
Permanent Conversion	0.8
Jeffrey Pine	0.8
625-1	6.3
Borderzone	2.7
Conversion areas	3.6
Permanent Conversion	1.0
Jeffrey Pine	0.2
Sierran Mixed Conifer	0.8
White fir	0.0
Temporary Conversion	2.7
Jeffrey Pine	0.3
Sierran Mixed Conifer	2.2
White fir	0.2

Alignment and Segment	Total Acres	Total Forested Acres
650-6	41.0	13.1
Borderzone	31.0	9.8
Conversion areas	10.0	3.3
Permanent Conversion	8.8	3.3
Temporary Conversion	1.3	0.0
650-7	23.7	7.8
Borderzone	17.2	5.8
Conversion areas	6.4	1.9
Permanent Conversion	4.9	1.6
Temporary Conversion	1.5	0.4
Preferred	887.5	651.8
625-1	19.7	6.3
Borderzone	12.9	2.7
Conversion areas	6.8	3.6
Permanent Conversion	2.5	1.0
Temporary Conversion	4.2	2.7
625-2	61.1	60.7
Borderzone	43.9	43.6
Conversion areas	17.2	17.1
Permanent Conversion	8.3	8.2
Temporary Conversion	8.9	8.9
625-3RF	138.1	116.5
Borderzone	97.6	86.0
Conversion areas	40.6	30.5
Permanent Conversion	19.1	13.9
Temporary Conversion	21.4	16.6
625-4RF	31.7	29.6
Borderzone	22.5	21.9
Conversion areas	9.2	7.6
Permanent Conversion	4.2	3.6
Temporary Conversion	5.0	4.1
625-5RF	67.5	58.6
Borderzone	50.1	45.1
Conversion areas	17.4	13.6
Permanent Conversion	9.0	7.6
Temporary Conversion	8.4	6.0
625-6RF	39.8	37.1
Borderzone	28.8	28.2
Conversion areas	10.9	8.9
Permanent Conversion	5.3	4.5
Temporary Conversion	5.6	4.4
625-7RF	71.1	65.9
Borderzone	51.3	49.3
Conversion areas	19.9	16.6
Permanent Conversion	9.5	8.2
Temporary Conversion	10.4	8.5
625-8RF	28.7	24.8
Borderzone	19.1	18.1
Conversion areas	9.5	6.7
Permanent Conversion	4.1	3.0
Temporary Conversion	5.5	3.7
650-1ToBeRemoved	6.1	4.6
Borderzone	4.7	3.8
Conversion areas	1.4	0.9
Temporary Conversion	1.4	0.9
650-3	160.6	121.0
Borderzone	119.9	88.4
Conversion areas	40.7	32.6
Permanent Conversion	21.5	17.6
Temporary Conversion	19.2	15.0
650-3N	18.9	17.8
Borderzone	14.8	14.0
Conversion areas	4.1	3.8
Permanent Conversion	2.5	2.4

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Alignment and Segment	Total Forested Acres
625-10 & 650-1	26.8
Borderzone	19.1
Conversion areas	7.7
Permanent Conversion	5.8
Jeffrey Pine	5.1
Sierran Mixed Conifer	0.7
Temporary Conversion	1.9
Jeffrey Pine	1.7
Sierran Mixed Conifer	0.2
625-10 only	17.2
Borderzone	11.7
Conversion areas	5.5
Permanent Conversion	2.4
Sierran Mixed Conifer	2.4
White fir	0.0
Temporary Conversion	3.0
Sierran Mixed Conifer	2.8
White fir	0.2
625-2	60.7
Borderzone	43.6
Conversion areas	17.1
Permanent Conversion	8.2
Sierran Mixed Conifer	6.1
White fir	2.2
Temporary Conversion	8.9
Sierran Mixed Conifer	7.2
White fir	1.7
625-3	115.6
Borderzone	81.7
Conversion areas	33.9
Permanent Conversion	19.0
Red fir	2.2
SCN	0.2
Sierran Mixed Conifer	12.6
White fir	4.0
Temporary Conversion	14.8
Red fir	1.3
SCN	0.2
Sierran Mixed Conifer	10.4
White fir	2.9
625-4	27.9
Borderzone	20.2
Conversion areas	7.8
Permanent Conversion	4.7
Red fir	3.6
SCN	0.2
Sierran Mixed Conifer	0.9
Temporary Conversion	3.0
Red fir	1.8
SCN	0.4
Sierran Mixed Conifer	0.9
625-5	59.2
Borderzone	41.4
Conversion areas	17.8
Permanent Conversion	9.1
Red fir	6.6
Sierran Mixed Conifer	2.5
Temporary Conversion	8.7
Red fir	6.4
Sierran Mixed Conifer	2.3
625-6	37.5
Borderzone	27.3
Conversion areas	10.3
Permanent Conversion	5.8

Alignment and Segment	Total Acres	Total Forested Acres
Temporary Conversion	1.6	1.5
650-4	62.1	0.5
Borderzone	47.0	0.5
Conversion areas	15.2	0.0
Permanent Conversion	8.2	0.0
Temporary Conversion	7.0	
650-6	41.0	13.1
Borderzone	31.0	9.8
Conversion areas	10.0	3.3
Permanent Conversion	8.8	3.3
Temporary Conversion	1.3	0.0
650-7	17.3	6.4
Borderzone	12.0	4.7
Conversion areas	5.3	1.6
Permanent Conversion	3.6	1.3
Temporary Conversion	1.7	0.4
650-7ToBeRemoved	6.4	1.4
Borderzone	5.2	1.1
Conversion areas	1.2	0.3
Temporary Conversion	1.2	0.3
D-C OH-1	47.8	44.5
Borderzone	34.9	32.3
Conversion areas	12.8	12.2
Permanent Conversion	10.2	9.6
Temporary Conversion	2.6	2.6
D-C OH-2	69.7	43.1
Borderzone	51.9	32.4
Conversion areas	17.8	10.7
Permanent Conversion	15.8	8.8
Temporary Conversion	2.0	1.9
Road	930.6	658.2
625-1RF	19.5	6.1
Borderzone	12.7	2.4
Conversion areas	6.8	3.6
Permanent Conversion	2.5	0.9
Temporary Conversion	4.3	2.7
625-2RF	61.2	60.7
Borderzone	44.0	43.6
Conversion areas	17.2	17.1
Permanent Conversion	8.3	8.2
Temporary Conversion	8.9	8.9
625-3RF	138.1	116.5
Borderzone	97.6	86.0
Conversion areas	40.6	30.5
Permanent Conversion	19.1	13.9
Temporary Conversion	21.4	16.6
625-4RF	31.7	29.6
Borderzone	22.5	21.9
Conversion areas	9.2	7.6
Permanent Conversion	4.2	3.6
Temporary Conversion	5.0	4.1
625-5RF	67.5	58.6
Borderzone	50.1	45.1
Conversion areas	17.4	13.6
Permanent Conversion	9.0	7.6
Temporary Conversion	8.4	6.0
625-6RF	39.8	37.1
Borderzone	28.8	28.2
Conversion areas	10.9	8.9
Permanent Conversion	5.3	4.5
Temporary Conversion	5.6	4.4
625-7RF	71.1	65.9
Borderzone	51.3	49.3
Conversion areas	19.9	16.6

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Alignment and Segment	Total Forested Acres
Red fir	1.3
Sierran Mixed Conifer	3.9
White fir	0.6
Temporary Conversion	4.4
Red fir	1.2
Sierran Mixed Conifer	2.2
White fir	1.0
625-7	64.8
Borderzone	47.4
Conversion areas	17.4
Permanent Conversion	11.2
Red fir	0.9
Sierran Mixed Conifer	5.6
White fir	4.8
Temporary Conversion	6.2
Red fir	0.4
Sierran Mixed Conifer	4.3
White fir	1.6
625-8	26.2
Borderzone	17.7
Conversion areas	8.6
Permanent Conversion	4.6
Sierran Mixed Conifer	3.6
White fir	1.0
Temporary Conversion	4.0
Sierran Mixed Conifer	2.6
White fir	1.4
625-9	84.3
Borderzone	61.0
Conversion areas	23.3
Permanent Conversion	14.6
Jeffrey Pine	1.0
Red fir	4.3
Sierran Mixed Conifer	8.2
White fir	1.1
Temporary Conversion	8.7
Jeffrey Pine	0.6
Red fir	2.6
Sierran Mixed Conifer	4.3
White fir	1.2
650-2	43.2
Borderzone	32.5
Conversion areas	10.7
Permanent Conversion	5.9
Jeffrey Pine	0.8
Sierran Mixed Conifer	4.7
White fir	0.4
Temporary Conversion	4.8
Jeffrey Pine	0.3
Sierran Mixed Conifer	4.3
White fir	0.2
650-3	120.8
Borderzone	88.2
Conversion areas	32.6
Permanent Conversion	17.6
Eastside Pine	4.1
Red fir	0.7
Sierran Mixed Conifer	11.1
White fir	1.7
Temporary Conversion	15.0
Eastside Pine	4.6
MHW	0.0
Red fir	0.5
Sierran Mixed Conifer	8.9

Alignment and Segment	Total Acres	Total Forested Acres
Permanent Conversion	9.5	8.2
Temporary Conversion	10.4	8.5
625-8RF	28.7	24.8
Borderzone	19.2	18.1
Conversion areas	9.5	6.7
Permanent Conversion	4.1	3.0
Temporary Conversion	5.5	3.7
650-1ToBeRemoved	6.1	4.6
Borderzone	4.7	3.8
Conversion areas	1.4	0.9
Temporary Conversion	1.4	0.9
650-3	160.7	121.0
Borderzone	120.0	88.4
Conversion areas	40.7	32.6
Permanent Conversion	21.5	17.6
Temporary Conversion	19.2	15.0
650-3N	18.9	17.8
Borderzone	14.8	14.0
Conversion areas	4.1	3.8
Permanent Conversion	2.5	2.4
Temporary Conversion	1.6	1.5
650-4B	105.4	7.0
Borderzone	79.7	6.0
Conversion areas	25.7	1.0
Permanent Conversion	13.8	0.3
Temporary Conversion	11.9	0.7
650-6	41.0	13.1
Borderzone	31.0	9.8
Conversion areas	10.0	3.3
Permanent Conversion	8.8	3.3
Temporary Conversion	1.3	0.0
650-7	17.3	6.4
Borderzone	12.0	4.7
Conversion areas	5.3	1.6
Permanent Conversion	3.6	1.3
Temporary Conversion	1.7	0.4
650-7ToBeRemoved	6.4	1.4
Borderzone	5.2	1.1
Conversion areas	1.2	0.3
Temporary Conversion	1.2	0.3
D-C OH-1	47.8	44.5
Borderzone	34.9	32.3
Conversion areas	12.8	12.2
Permanent Conversion	10.2	9.6
Temporary Conversion	2.6	2.6
D-C OH-2	69.7	43.1
Borderzone	51.9	32.4
Conversion areas	17.8	10.7
Permanent Conversion	15.8	8.8
Temporary Conversion	2.0	1.9
RoadOpt	926.6	645.8
625-1RF	19.5	6.1
Borderzone	12.7	2.4
Conversion areas	6.8	3.6
Permanent Conversion	2.5	0.9
Temporary Conversion	4.3	2.7
625-2RF	61.2	60.7
Borderzone	44.0	43.6
Conversion areas	17.2	17.1
Permanent Conversion	8.3	8.2
Temporary Conversion	8.9	8.9
625-3RF	138.1	116.5
Borderzone	97.6	86.0
Conversion areas	40.6	30.5

California Department of Fish and Wildlife Wildlife Habitat Relationships Impact Acres and Total Acres*

Alignment and Segment	Total Forested Acres
White fir	1.0
650-3N	17.8
Borderzone	14.0
Conversion areas	3.8
Permanent Conversion	2.4
Eastside Pine	0.2
Sierran Mixed Conifer	2.2
Temporary Conversion	1.5
Eastside Pine	0.1
Sierran Mixed Conifer	1.4
650-4	0.5
Borderzone	0.5
Conversion areas	0.0
Temporary Conversion	0.0
Eastside Pine	0.0
650-6	13.1
Borderzone	9.8
Conversion areas	3.3
Permanent Conversion	3.3
Eastside Pine	3.3
Temporary Conversion	0.0
Eastside Pine	0.0
650-7	7.8
Borderzone	5.8
Conversion areas	1.9
Permanent Conversion	1.6
Eastside Pine	1.6
Temporary Conversion	0.4
Eastside Pine	0.4
Preferred	651.8
625-1	6.3
Borderzone	2.7
Conversion areas	3.6
Permanent Conversion	1.0
Jeffrey Pine	0.2
Sierran Mixed Conifer	0.8
White fir	0.0
Temporary Conversion	2.7
Jeffrey Pine	0.3
Sierran Mixed Conifer	2.2
White fir	0.2
625-2	60.7
Borderzone	43.6
Conversion areas	17.1
Permanent Conversion	8.2
Sierran Mixed Conifer	6.1
White fir	2.2
Temporary Conversion	8.9
Sierran Mixed Conifer	7.2
White fir	1.7
625-3RF	116.5
Borderzone	86.0
Conversion areas	30.5
Permanent Conversion	13.9
Lodgepole Pine	0.1
Red fir	1.9
Sierran Mixed Conifer	9.3
White fir	2.7
Temporary Conversion	16.6
Lodgepole Pine	0.0
Red fir	1.4
Sierran Mixed Conifer	11.5
White fir	3.6
625-4RF	29.6

Alignment and Segment	Total Acres	Total Forested Acres
Permanent Conversion	19.1	13.9
Temporary Conversion	21.4	16.6
625-4RF	31.7	29.6
Borderzone	22.5	21.9
Conversion areas	9.2	7.6
Permanent Conversion	4.2	3.6
Temporary Conversion	5.0	4.1
625-5RF	67.5	58.6
Borderzone	50.1	45.1
Conversion areas	17.4	13.6
Permanent Conversion	9.0	7.6
Temporary Conversion	8.4	6.0
625-6RF	39.8	37.1
Borderzone	28.8	28.2
Conversion areas	10.9	8.9
Permanent Conversion	5.3	4.5
Temporary Conversion	5.6	4.4
625-7RF	71.1	65.9
Borderzone	51.3	49.3
Conversion areas	19.9	16.6
Permanent Conversion	9.5	8.2
Temporary Conversion	10.4	8.5
625-8RF	28.7	24.8
Borderzone	19.2	18.1
Conversion areas	9.5	6.7
Permanent Conversion	4.1	3.0
Temporary Conversion	5.5	3.7
650-1ToBeRemoved	6.6	5.5
Borderzone	5.0	4.3
Conversion areas	1.6	1.2
Temporary Conversion	1.6	1.2
650-3	160.7	121.0
Borderzone	120.0	88.4
Conversion areas	40.7	32.6
Permanent Conversion	21.5	17.6
Temporary Conversion	19.2	15.0
650-3N	18.9	17.8
Borderzone	14.8	14.0
Conversion areas	4.1	3.8
Permanent Conversion	2.5	2.4
Temporary Conversion	1.6	1.5
650-4B	105.4	7.0
Borderzone	79.7	6.0
Conversion areas	25.7	1.0
Permanent Conversion	13.8	0.3
Temporary Conversion	11.9	0.7
650-6	41.0	13.1
Borderzone	31.0	9.8
Conversion areas	10.0	3.3
Permanent Conversion	8.8	3.3
Temporary Conversion	1.3	0.0
650-7	17.3	6.4
Borderzone	12.0	4.7
Conversion areas	5.3	1.6
Permanent Conversion	3.6	1.3
Temporary Conversion	1.7	0.4
650-7ToBeRemoved	6.4	1.4
Borderzone	5.2	1.1
Conversion areas	1.2	0.3
Temporary Conversion	1.2	0.3
D-C OH-1A	43.2	31.2
Borderzone	33.6	22.9
Conversion areas	9.5	8.3
Permanent Conversion	9.5	8.2

California Department of Fish and Wildlife Wildlife Habitat Relationships Impact Acres and Total Acres*

Alignment and Segment	Total Forested Acres
Borderzone	21.9
Conversion areas	7.6
Permanent Conversion	3.6
Red fir	3.1
Sierran Mixed Conifer	0.5
Temporary Conversion	4.1
Red fir	3.0
Sierran Mixed Conifer	1.1
625-5RF	58.6
Borderzone	45.1
Conversion areas	13.6
Permanent Conversion	7.6
Red fir	5.3
Sierran Mixed Conifer	2.3
Temporary Conversion	6.0
Red fir	4.5
Sierran Mixed Conifer	1.5
625-6RF	37.1
Borderzone	28.2
Conversion areas	8.9
Permanent Conversion	4.5
Red fir	0.3
Sierran Mixed Conifer	3.6
White fir	0.6
Temporary Conversion	4.4
Red fir	0.8
Sierran Mixed Conifer	2.2
White fir	1.4
625-7RF	65.9
Borderzone	49.3
Conversion areas	16.6
Permanent Conversion	8.2
Red fir	0.5
Sierran Mixed Conifer	3.9
White fir	3.8
Temporary Conversion	8.5
Red fir	0.7
Sierran Mixed Conifer	4.1
White fir	3.6
625-8RF	24.8
Borderzone	18.1
Conversion areas	6.7
Permanent Conversion	3.0
Sierran Mixed Conifer	2.6
White fir	0.4
Temporary Conversion	3.7
Sierran Mixed Conifer	2.4
White fir	1.3
650-1ToBeRemoved	4.6
Borderzone	3.8
Conversion areas	0.9
Temporary Conversion	0.9
Jeffrey Pine	0.9
650-3	121.0
Borderzone	88.4
Conversion areas	32.6
Permanent Conversion	17.6
Eastside Pine	4.1
Red fir	0.7
Sierran Mixed Conifer	11.1
White fir	1.7
Temporary Conversion	15.0
Eastside Pine	4.6
MHW	0.0

Alignment and Segment	Total Acres	Total Forested Acres
Temporary Conversion	0.1	0.1
D-C OH-2	69.7	43.1
Borderzone	51.9	32.5
Conversion areas	17.8	10.7
Permanent Conversion	15.8	8.8
Temporary Conversion	2.0	1.9

California Department of Fish and Wildlife Wildlife Habitat Relationships Impact Acres and Total Acres*

Alignment and Segment	Total Forested Acres
Red fir	0.5
Sierran Mixed Conifer	8.9
White fir	1.0
650-3N	17.8
Borderzone	14.0
Conversion areas	3.8
Permanent Conversion	2.4
Eastside Pine	0.2
Sierran Mixed Conifer	2.2
Temporary Conversion	1.5
Eastside Pine	0.1
Sierran Mixed Conifer	1.4
650-4	0.5
Borderzone	0.5
Conversion areas	0.0
Temporary Conversion	0.0
Eastside Pine	0.0
650-6	13.1
Borderzone	9.8
Conversion areas	3.3
Permanent Conversion	3.3
Eastside Pine	3.3
Temporary Conversion	0.0
Eastside Pine	0.0
650-7	6.4
Borderzone	4.7
Conversion areas	1.6
Permanent Conversion	1.3
Eastside Pine	1.3
Temporary Conversion	0.4
Eastside Pine	0.4
650-7ToBeRemoved	1.4
Borderzone	1.1
Conversion areas	0.3
Temporary Conversion	0.3
Eastside Pine	0.3
D-C OH-1	44.5
Borderzone	32.3
Conversion areas	12.2
Permanent Conversion	9.6
Jeffrey Pine	7.4
Sierran Mixed Conifer	1.4
White fir	0.7
Temporary Conversion	2.6
Jeffrey Pine	1.3
Sierran Mixed Conifer	0.8
White fir	0.6
D-C OH-2	43.1
Borderzone	32.4
Conversion areas	10.7
Permanent Conversion	8.8
Jeffrey Pine	1.1
Sierran Mixed Conifer	7.1
White fir	0.6
Temporary Conversion	1.9
Sierran Mixed Conifer	1.9
Road	658.2
625-1RF	6.1
Borderzone	2.4
Conversion areas	3.6
Permanent Conversion	0.9
Jeffrey Pine	0.2
Sierran Mixed Conifer	0.7
White fir	0.0

Alignment and Segment	Total Acres	Total Forested Acres

California Department of Fish and Wildlife Wildlife Habitat Relationships Impact Acres and Total Acres*

Alignment and Segment	Total Forested Acres
Temporary Conversion	2.7
Jeffrey Pine	0.3
Sierran Mixed Conifer	2.2
White fir	0.2
625-2RF	60.7
Borderzone	43.6
Conversion areas	17.1
Permanent Conversion	8.2
Sierran Mixed Conifer	6.1
White fir	2.2
Temporary Conversion	8.9
Sierran Mixed Conifer	7.2
White fir	1.7
625-3RF	116.5
Borderzone	86.0
Conversion areas	30.5
Permanent Conversion	13.9
Lodgepole Pine	0.1
Red fir	1.9
Sierran Mixed Conifer	9.3
White fir	2.7
Temporary Conversion	16.6
Lodgepole Pine	0.0
Red fir	1.4
Sierran Mixed Conifer	11.5
White fir	3.6
625-4RF	29.6
Borderzone	21.9
Conversion areas	7.6
Permanent Conversion	3.6
Red fir	3.1
Sierran Mixed Conifer	0.5
Temporary Conversion	4.1
Red fir	3.0
Sierran Mixed Conifer	1.1
625-5RF	58.6
Borderzone	45.1
Conversion areas	13.6
Permanent Conversion	7.6
Red fir	5.3
Sierran Mixed Conifer	2.3
Temporary Conversion	6.0
Red fir	4.5
Sierran Mixed Conifer	1.5
625-6RF	37.1
Borderzone	28.2
Conversion areas	8.9
Permanent Conversion	4.5
Red fir	0.3
Sierran Mixed Conifer	3.6
White fir	0.6
Temporary Conversion	4.4
Red fir	0.8
Sierran Mixed Conifer	2.2
White fir	1.4
625-7RF	65.9
Borderzone	49.3
Conversion areas	16.6
Permanent Conversion	8.2
Red fir	0.5
Sierran Mixed Conifer	3.9
White fir	3.8
Temporary Conversion	8.5
Red fir	0.7

Alignment and Segment	Total Acres	Total Forested Acres

California Department of Fish and Wildlife Wildlife Habitat Relationships Impact Acres and Total Acres*

Alignment and Segment	Total Forested Acres
Sierran Mixed Conifer	4.1
White fir	3.6
625-8RF	24.8
Borderzone	18.1
Conversion areas	6.7
Permanent Conversion	3.0
Sierran Mixed Conifer	2.6
White fir	0.4
Temporary Conversion	3.7
Sierran Mixed Conifer	2.4
White fir	1.3
650-1ToBeRemoved	4.6
Borderzone	3.8
Conversion areas	0.9
Temporary Conversion	0.9
Jeffrey Pine	0.9
650-3	121.0
Borderzone	88.4
Conversion areas	32.6
Permanent Conversion	17.6
Eastside Pine	4.1
Red fir	0.7
Sierran Mixed Conifer	11.1
White fir	1.7
Temporary Conversion	15.0
Eastside Pine	4.6
MHW	0.0
Red fir	0.5
Sierran Mixed Conifer	8.9
White fir	1.0
650-3N	17.8
Borderzone	14.0
Conversion areas	3.8
Permanent Conversion	2.4
Eastside Pine	0.2
Sierran Mixed Conifer	2.2
Temporary Conversion	1.5
Eastside Pine	0.1
Sierran Mixed Conifer	1.4
650-4B	7.0
Borderzone	6.0
Conversion areas	1.0
Permanent Conversion	0.3
Eastside Pine	0.3
Temporary Conversion	0.7
Eastside Pine	0.7
650-6	13.1
Borderzone	9.8
Conversion areas	3.3
Permanent Conversion	3.3
Eastside Pine	3.3
Temporary Conversion	0.0
Eastside Pine	0.0
650-7	6.4
Borderzone	4.7
Conversion areas	1.6
Permanent Conversion	1.3
Eastside Pine	1.3
Temporary Conversion	0.4
Eastside Pine	0.4
650-7ToBeRemoved	1.4
Borderzone	1.1
Conversion areas	0.3
Temporary Conversion	0.3

Alignment and Segment	Total Acres	Total Forested Acres

California Department of Fish and Wildlife Wildlife Habitat Relationships Impact Acres and Total Acres*

Alignment and Segment	Total Forested Acres
Eastside Pine	0.3
D-C OH-1	44.5
Borderzone	32.3
Conversion areas	12.2
Permanent Conversion	9.6
Jeffrey Pine	7.4
Sierran Mixed Conifer	1.4
White fir	0.7
Temporary Conversion	2.6
Jeffrey Pine	1.3
Sierran Mixed Conifer	0.8
White fir	0.6
D-C OH-2	43.1
Borderzone	32.4
Conversion areas	10.7
Permanent Conversion	8.8
Jeffrey Pine	1.1
Sierran Mixed Conifer	7.1
White fir	0.6
Temporary Conversion	1.9
Sierran Mixed Conifer	1.9
RoadOpt	645.8
625-1RF	6.1
Borderzone	2.4
Conversion areas	3.6
Permanent Conversion	0.9
Jeffrey Pine	0.2
Sierran Mixed Conifer	0.7
White fir	0.0
Temporary Conversion	2.7
Jeffrey Pine	0.3
Sierran Mixed Conifer	2.2
White fir	0.2
625-2RF	60.7
Borderzone	43.6
Conversion areas	17.1
Permanent Conversion	8.2
Sierran Mixed Conifer	6.1
White fir	2.2
Temporary Conversion	8.9
Sierran Mixed Conifer	7.2
White fir	1.7
625-3RF	116.5
Borderzone	86.0
Conversion areas	30.5
Permanent Conversion	13.9
Lodgepole Pine	0.1
Red fir	1.9
Sierran Mixed Conifer	9.3
White fir	2.7
Temporary Conversion	16.6
Lodgepole Pine	0.0
Red fir	1.4
Sierran Mixed Conifer	11.5
White fir	3.6
625-4RF	29.6
Borderzone	21.9
Conversion areas	7.6
Permanent Conversion	3.6
Red fir	3.1
Sierran Mixed Conifer	0.5
Temporary Conversion	4.1
Red fir	3.0
Sierran Mixed Conifer	1.1

Alignment and Segment	Total Acres	Total Forested Acres

California Department of Fish and Wildlife Wildlife Habitat Relationships Impact Acres and Total Acres*

Alignment and Segment	Total Forested Acres
625-5RF	58.6
Borderzone	45.1
Conversion areas	13.6
Permanent Conversion	7.6
Red fir	5.3
Sierran Mixed Conifer	2.3
Temporary Conversion	6.0
Red fir	4.5
Sierran Mixed Conifer	1.5
625-6RF	37.1
Borderzone	28.2
Conversion areas	8.9
Permanent Conversion	4.5
Red fir	0.3
Sierran Mixed Conifer	3.6
White fir	0.6
Temporary Conversion	4.4
Red fir	0.8
Sierran Mixed Conifer	2.2
White fir	1.4
625-7RF	65.9
Borderzone	49.3
Conversion areas	16.6
Permanent Conversion	8.2
Red fir	0.5
Sierran Mixed Conifer	3.9
White fir	3.8
Temporary Conversion	8.5
Red fir	0.7
Sierran Mixed Conifer	4.1
White fir	3.6
625-8RF	24.8
Borderzone	18.1
Conversion areas	6.7
Permanent Conversion	3.0
Sierran Mixed Conifer	2.6
White fir	0.4
Temporary Conversion	3.7
Sierran Mixed Conifer	2.4
White fir	1.3
650-1ToBeRemoved	5.5
Borderzone	4.3
Conversion areas	1.2
Temporary Conversion	1.2
Jeffrey Pine	1.2
650-3	121.0
Borderzone	88.4
Conversion areas	32.6
Permanent Conversion	17.6
Eastside Pine	4.1
Red fir	0.7
Sierran Mixed Conifer	11.1
White fir	1.7
Temporary Conversion	15.0
Eastside Pine	4.6
MHW	0.0
Red fir	0.5
Sierran Mixed Conifer	8.9
White fir	1.0
650-3N	17.8
Borderzone	14.0
Conversion areas	3.8
Permanent Conversion	2.4
Eastside Pine	0.2

Alignment and Segment	Total Acres	Total Forested Acres

California Department of Fish and Wildlife Wildlife Habitat Relationships Impact Acres and Total Acres*

Alignment and Segment	Total Forested Acres
Sierran Mixed Conifer	2.2
Temporary Conversion	1.5
Eastside Pine	0.1
Sierran Mixed Conifer	1.4
650-4B	7.0
Borderzone	6.0
Conversion areas	1.0
Permanent Conversion	0.3
Eastside Pine	0.3
Temporary Conversion	0.7
Eastside Pine	0.7
650-6	13.1
Borderzone	9.8
Conversion areas	3.3
Permanent Conversion	3.3
Eastside Pine	3.3
Temporary Conversion	0.0
Eastside Pine	0.0
650-7	6.4
Borderzone	4.7
Conversion areas	1.6
Permanent Conversion	1.3
Eastside Pine	1.3
Temporary Conversion	0.4
Eastside Pine	0.4
650-7ToBeRemoved	1.4
Borderzone	1.1
Conversion areas	0.3
Temporary Conversion	0.3
Eastside Pine	0.3
D-C OH-1A	31.2
Borderzone	22.9
Conversion areas	8.3
Permanent Conversion	8.2
Jeffrey Pine	8.1
Sierran Mixed Conifer	0.2
Temporary Conversion	0.1
Jeffrey Pine	0.0
Sierran Mixed Conifer	0.0
D-C OH-2	43.1
Borderzone	32.5
Conversion areas	10.7
Permanent Conversion	8.8
Jeffrey Pine	1.1
Sierran Mixed Conifer	7.1
White fir	0.6
Temporary Conversion	1.9
Sierran Mixed Conifer	1.9

Alignment and Segment	Total Acres	Total Forested Acres

*Information about the California Wildlife Habitat Relationships can be found at:
http://www.dfg.ca.gov/biogeodata/cwhr/
Habitat descriptions can be found here:
http://www.dfg.ca.gov/biogeodata/cwhr/wildlife_habitats.asp

Appendix I

Additional Geology and Soils Information

Geologic Units within the Project Site

Geologic Units Encountered by Each Segment of the Proposed Electrical Line Upgrade Alternatives		
Proposed Line Segment	Geological Unit	Geologic Unit Description Youngest Oldest
625-1 & 1A/substation	Ql	Holocene Lake Deposits
625-2	Pvta, Pvtb	Tahoe City Trachyandesite Tahoe City Basalt
625-3	Pvta Mva Pva	Tahoe City Trachyandesite Andesitic and Dacitic flows & Volcaniclastic Sediments Andesite and Basaltic Andesite flows
625-4 625-4A	Pva	Andesite and Basaltic Andesite flows
625-5	Mva Mvaf	Andesitic and Dacitic flows & Volcaniclastic Sediments Andesite and Dacite flows
625-6 625-6A	Q Mva Mvaf	Holocene Alluvium Andesitic and Dacitic flows & Volcaniclastic Sediments Andesite and Dacite flows
625-7	Q Mvaf	Holocene Alluvium Andesite and Dacite flows
625-8 625-8A	Mva Mvaf	Andesitic and Dacitic flows & Volcaniclastic Sediments Andesite and Dacite flows
625-9 D-C OH-4	Mva Mvaf	Andesitic and Dacitic flows & Volcaniclastic Sediments Andesite and Dacite flows
625-10 D-C OH-3	Ql Mva	Holocene Lake Deposits Andesitic and Dacitic flows & Volcaniclastic Sediments
D-C OH-1A (Option Sub A)/Substation	Ql Mva	Holocene Lake Deposits Andesitic and Dacitic flows & Volcaniclastic Sediments
650-1 (D-C OH-1A/Substation	Ql Mva	Holocene Lake Deposits Andesitic and Dacitic flows & Volcaniclastic Sediments
650-2 D-C OH-2	Mva	Andesitic and Dacitic flows & Volcaniclastic Sediments
650-3	Qf Mva	Miocene Alluvial Fan Deposits Andesitic and Dacitic flows & Volcaniclastic Sediments
650-4 650-4A	Q Qf Qpc	Holocene Alluvium Miocene Alluvial Fan Deposits Prosser Creek Alluvium
650-4B	Q Qf Qpc Qogo	Holocene Alluvium Miocene Alluvial Fan Deposits Prosser Creek Alluvium Glacial Outwash Deposits
650-5	Qpc Qvbm Qogo	Prosser Creek Alluvium Bald Mtn. Olivine Latite Glacial Outwash Deposits
650-6	Qtio Qogo Qpc	Outwash Deposits Glacial Outwash Deposits Prosser Creek Alluvium
650-7	Qtio Qpc	Outwash Deposits Prosser Creek Alluvium

Qt-Talus Deposits (Holocene) – Talus deposits consist of an accumulation of coarse angular blocks to gravelly and sandy granitic and volcanic debris. The material is unconsolidated and can creep down slope as weight from debris and rock accumulates along the upper slopes of the deposit. Talus deposits are also prone to movement during seismic events. These Talus deposits are located along the Thunder Cliffs/Twin Crags area near the mouth of the Truckee River. The southern limit of the proposed 625 Modified Alternative Line is located near the edge of this deposit.

Ql-Lake Deposits (Holocene) – Thinly bedded sandy silt and clay. The southern limit of the proposed PEA 625 modified alternative and 650 Modified Alternative, as well as the Kings Beach substation, staging area, and switching station, and the Brockway Substation intersect these deposits.

Qls-Landslide Deposits (Holocene and Pleistocene) – Unsorted angular boulders-to clay size debris. Locally, this may be manifest as talus, colluviums, rock fall, and avalanche deposits. These deposits also include accumulations of poorly sorted, disrupted materials transported by debris flows. It appears no portion of the proposed PEA project is located on these deposits; however, approximately one half mile up the Truckee River from the Tahoe City Substation and southern limit of the proposed PEA 625 Alternative, several landslide deposits border the north and south side of the river.

Q-Alluvium (Holocene and Pleistocene) – These deposits include unconsolidated, moderately to poorly sorted sand, silt, and gravel. Locally, it includes alluvial fan deposits, glacial outwash and lacustrine deposits. These deposits are primarily confined to lower lying areas influenced by current drainage channels. These deposits are intersected by the Kings Beach/Broadway substations and Tahoe City Substation, as well as the southern limits of the proposed Double Circuit and PEA 625 Alternative lines, and the proposed 650 Modified Alternative line and Northstar Substation along the Middle and West Martis Creek drainages.

Qf-Alluvial Fan Deposits (Holocene and Pleistocene) – This material is poorly sorted boulder sand and gravel deposits. Locally, the material includes older fan deposits and alluvium. These fan deposits are often dissected or buried by current fluvial activity. Approximately 1.5 miles of the proposed 650 Modified Alternative line intersects this deposit along the lower Middle Martis Creek drainage.

Qtio, Qogo -Outwash Deposits (Pleistocene-25,000 to 100,000 years) - These deposits include a wide range of material derived from the Tioga, Tahoe and older glaciations. The material consists of unconsolidated boulder to polymict boulders, cobble gravel, sand, and silt. The outwash is the product of the dissection of large glacial moraine. The distribution of these deposits in the project area are confined to the Truckee River drainage and commonly seen as the larger fluvial terraces. Approximately one mile of the proposed 650 Modified Alternative line along North Star Road south of the Truckee-Tahoe Airport is located on these deposits.

Qvbm-Bald Mountain Latite (Pleistocene) – The Bald Mountain Olivine Latite deposit consists of a dark-gray olivine latite flow erupted from vents at and southwest of Bald Mountain. The deposit also includes material from cinder cones located approximately four miles west near Bald Mountain. A small section of the proposed 650 Modified Alternative line intersects these deposits in the northern project area near confluence of Martis Creek and West Martis Creek.

Qpc-Prosser Creek Alluvium (Pleistocene) – The Prosser Creek Alluvium consists of indurated polymict boulder to pebble gravel, sand and silt; this material is partly derived from alluvial and lacustrine processes. The bulk of this formation was deposited when the Truckee River drainage was blocked by Hirschdale olivine latite flows. This deposit occurs in the northern most portions of the project area. A small portion of the proposed 650 Road Focused line and about a mile of the proposed 650 Modified Alternate line is located on this deposit.

Pvta-Tahoe City Trachyandesite (Pliocene) – The Tahoe City Trachyandesite covers an irregular area of approximately five square miles northwest of Tahoe city. The flows are thought to originate from a cone vent

located near the northwest corner of this deposit, approximately one mile west of Burton Creek State Park. Approximately two miles of the proposed 625 Modified Alternative and Road Focused Line bisects this deposit northwest of Tahoe City.

Pvtb-Tahoe City Basalt (Pliocene) – This deposit consists of dark-gray olivine basalt and palogonitic basalt flows, with local pillow structures at the base of the flows. This deposit underlies Tahoe City and forms a bench along the Truckee River. The deposit is approximately two million years old, and also included olivine latite. Approximately 1.5 miles of the north-south oriented proposed 635 Modified Alternative Line is located on this formation.

Pva-Andesitic and Basaltic Andesite Flows (Pliocene) – This deposit is composed of light- to dark-gray, fine-grained porphyritic, massive to locally flow-banded andesite and basaltic andesite flows. The deposit occurs as continuous flows and isolated remnants of larger flows deposited in channels eroded in older Tertiary volcanic deposits. It also includes lava domes in the Agate Bay area. These flows are exposed over approximately 60 percent of the project corridor. Approximately eight miles of the proposed 625 and 650 Alternative Line cross this formation.

Mva-Andesitic and Dacitic Lahars, Flows, Breccias and Volcaniclastic Sediments (Miocene) – These deposits consist of undivided andesite, trachyandesite, basaltic andesite and dacite lahars, basaltic flows, breccias and volcaniclastic sediments. Some areas of this deposit also include rhyolite tuff. These deposits have been exposed by fluvial down cutting action near the headwaters of Burton Creek. Approximately one mile of proposed Line Segment 625-3 is located on this deposit.

Mvaf-Andesite and Dacite Flows (Miocene) – The andesite and dacite flows found in the area are composed of massive to platy hornblende, and pyroxene andesite and latite. This deposit also includes andesite and dacite domes, and may represent flows more closely associated with the Pliocene age. Some basalt flows fall into the classification of a trachybasalt. Approximately two miles of the proposed 625 Modified Alternative Line east of the Sawmill Flat staging area is located over this formation.

2010 FAULT ACTIVITY MAP OF CALIFORNIA

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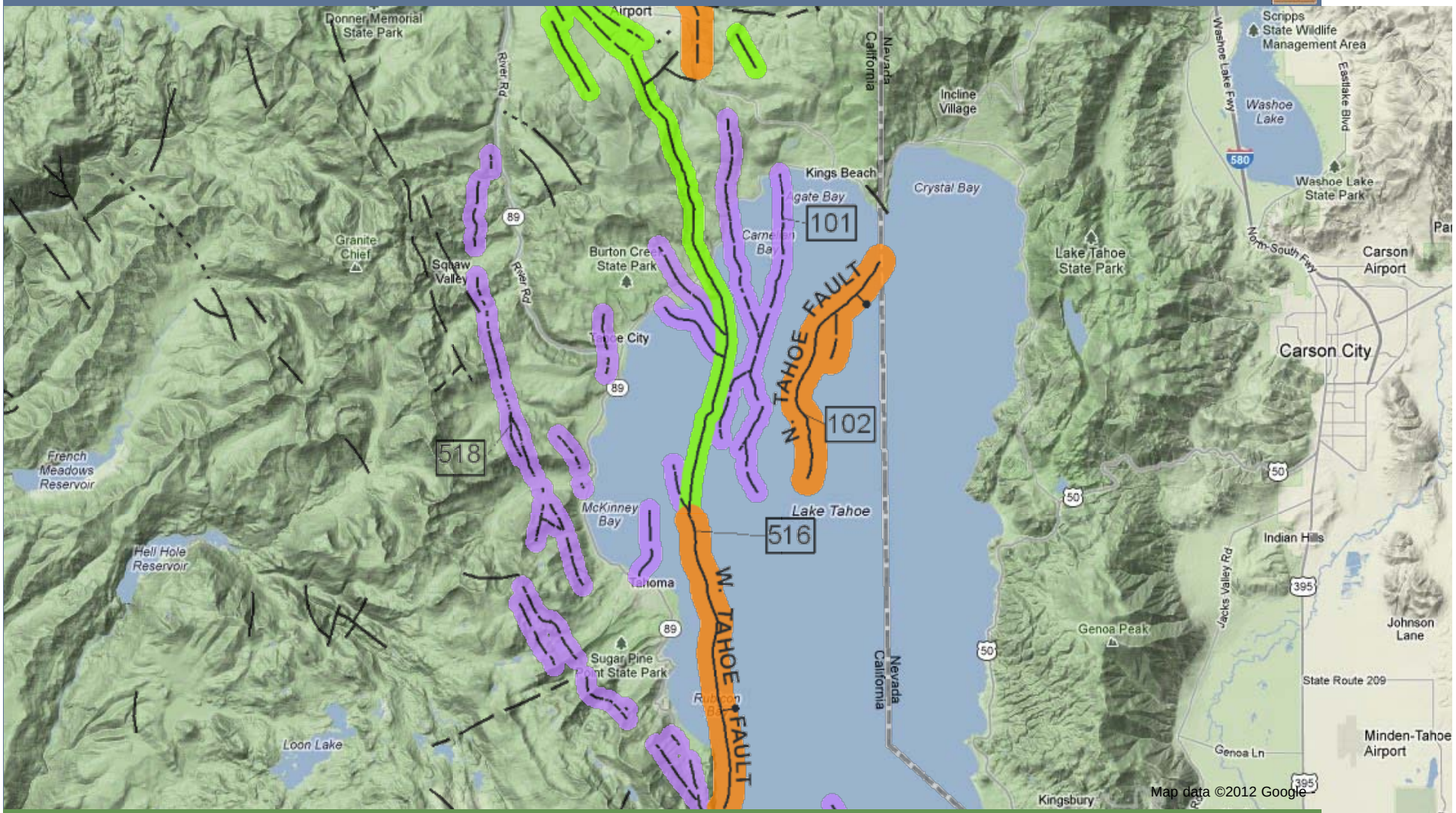

GEOLOGIC MAP OF THE LAKE TAHOE BASIN

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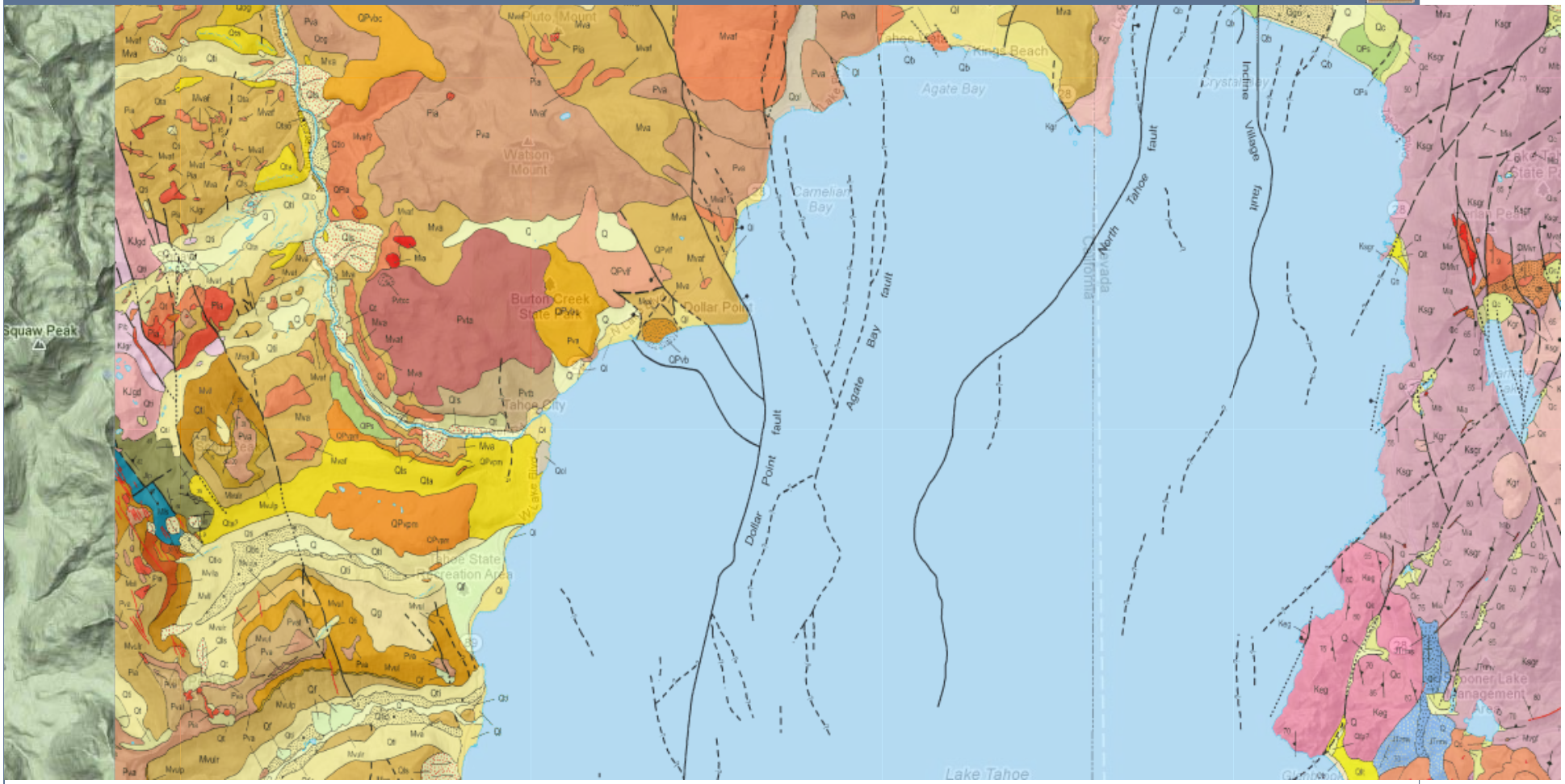

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GEOLOGIC MAP OF THE LAKE TAHOE BASIN

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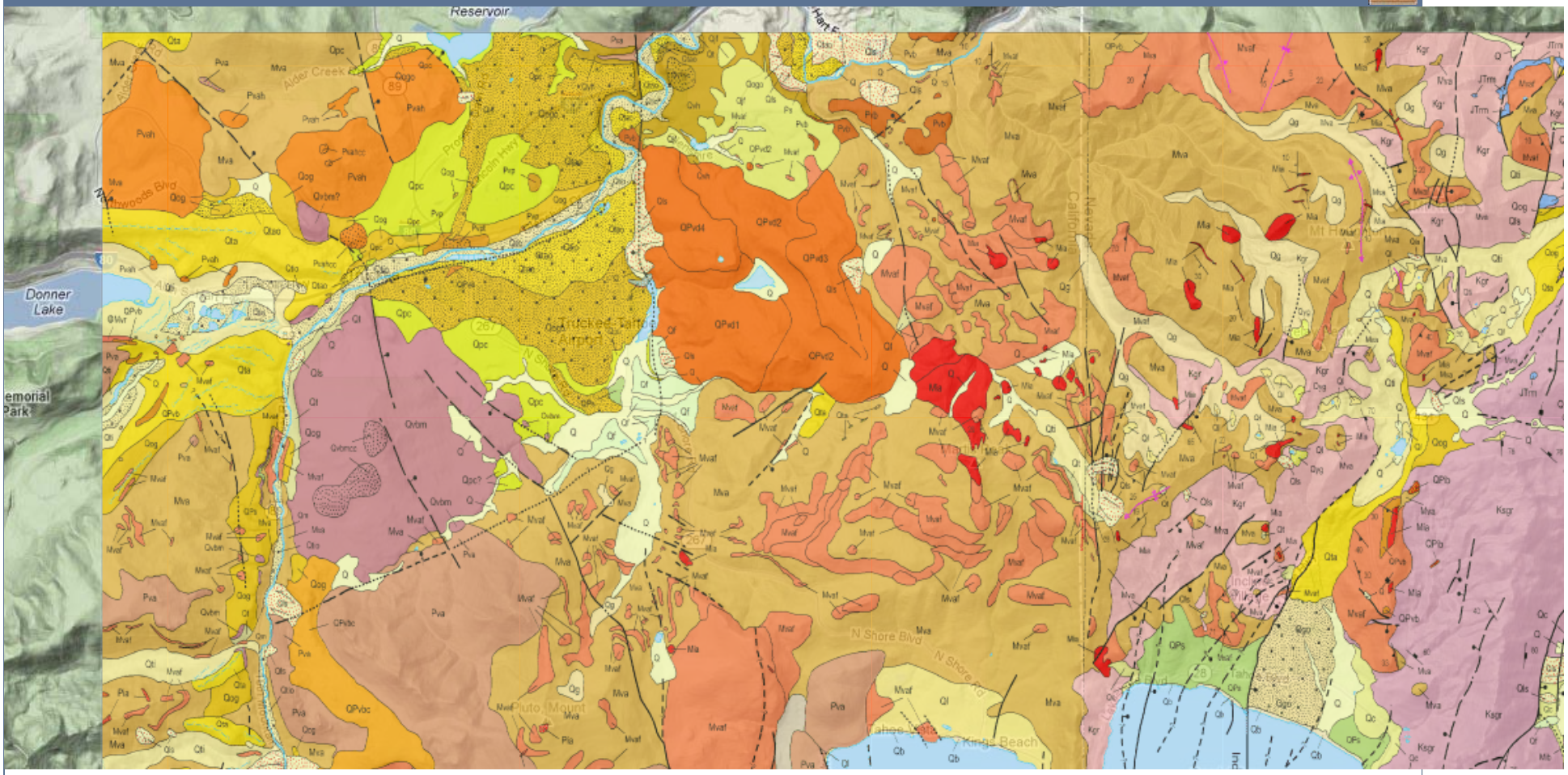

Map data ©2012 Google -

Soil Map Units within the Project Site

Soil Map Units Encountered by Each Segment of the Proposed Electrical Line Upgrade Alternatives		
Proposed Line Segment	Soil Unit Number	Soil Unit Description Numerical Order
625-1 & 1A	7031, 7042 7161	Pits and Dumps Tahoe complex Kings Beachstony sandy loam
625-2	7222 7156-7157	Tahoma-Jorge complex Jorge-Tahoma complex
625-3	7222 7151-7152 7156-7157 9165 7131	Tahoma-Jorge complex Jorge very cobbly fine sandy loam Jorge-Tahoma complex Sky-Melody complex Ellispeak-Waca complex
625-4 625-4A	UME-UMF UME-UMF	Umpa stony sandy loam Umpa stony sandy loam
625-5	7152 7155 7157 7222 9122	Jorge very cobbly fine sandy loam Jorge very cobbly loam Jorge-Tahoma complex Tahoma-Jorge complex Watson Lake gravelly sandy loam
625-6 625-6A	7157 7181 7222 FTE	Jorge-Tahoma complex Paige medial sandy loam Tahoma-Jorge complex Fugawee-Tahoma complex
625-7	7152-7153 7156 7181 7221 7222	Jorge very cobbly fine sandy loam Jorge-Tahoma Complex Paige medial sandy loam Tahoma very cobbly sandy loam Tahoma-Jorge Complex
625-8 625-8A	7153 7157 7222	Jorge very cobbly fine sandy loam Jorge-Tahoma Complex Tahoma-Jorge Complex
625-9 D-C OH-4	UOG UMF 7152-7153 7156	Umpa-Rock outcrop complex Umpa Jorge very cobbly fine sandy loam Jorge-Tahoma Complex
625-10 D-C OH-3	7152 7161 7221 7222	Jorge very cobbly fine sandy loam Kings Beach stony sandy loam Tahoma very cobbly sandy loam Tahoma-Jorge Complex
D-C OH-1A (Option Sub A)	7161 7222	Kings Beach stony sandy loam Tahoma-Jorge Complex
650-1 (D-C OH-1A	7161 7222 9011	Kings Beach stony sandy loam Tahoma-Jorge Complex Oxyaquic Cryothents-Aquic Xerothents
650-2 D-C OH-2	7152-7153 7157 7221	Jorge very cobbly fine sandy loam Jorge-Tahoma Complex Tahoma-Jorge Complex

Soil Map Units Encountered by Each Segment of the Proposed Electrical Line Upgrade Alternatives		
Proposed Line Segment	Soil Unit Number	Soil Unit Description Numerical Order
650-3	UMF JTF JSE JUG JWF ARE EWB	UMPA Jorge Jorge-Rubble land complex Jorge-Cryumbrepts Complex Jorge-Waca-Tahoma Complex Aldi-Kybrz Complex Inville-Riverwash-Aquolis Complex
650-4 650-4A	AQB AQB	Aquolls and Borolls Aquolls and Borolls
650-4B	EUB MEB PX	Euer-Martis variant Complex Martis-Euer variant Complex Pits, borrow
650-5	ARE EUB FUE KRE	Aldi-Kybrz Complex Euer-Martis variant Complex Kyburz-Trojan Complex Kyburz-Rock outcrop-Trojan Complex
650-6	AQB FUE EUB MEB	Aquolls and Borolls Kyburz-Trojan Complex Euer-Martis variant Complex Martis-Euer variant Complex

Tahoe Basin Area, California and Nevada

7031—Pits and dumps

Map Unit Setting

Elevation: 6,230 to 7,180 feet
Mean annual precipitation: 23 to 55 inches
Mean annual air temperature: 41 to 46 degrees F

Map Unit Composition

Dumps: 45 percent
Pits: 45 percent
Minor components: 10 percent

Description of Pits

Typical profile

0 to 60 inches: Variable

Description of Dumps

Typical profile

0 to 60 inches: Variable

Minor Components

Arents

Percent of map unit: 5 percent

Xerorthents

Percent of map unit: 5 percent

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Tahoe Basin Area, California and Nevada

7042—Tahoe complex, 0 to 5 percent slopes, gravelly

Map Unit Setting

Landscape: Mountains
Elevation: 6,220 to 7,720 feet
Mean annual precipitation: 23 to 61 inches
Mean annual air temperature: 41 to 46 degrees F
Frost-free period: 20 to 75 days

Map Unit Composition

Tahoe, gravelly, and similar soils: 55 percent
Tahoe, gravelly wet, and similar soils: 25 percent
Minor components: 20 percent

Description of Tahoe, Gravelly

Setting

Landform: Flood plains, valley flats
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Concave
Parent material: Alluvium derived from granitic and volcanic rock

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to very high (1.42 to 14.17 in/hr)
Depth to water table: About 0 to 12 inches
Frequency of flooding: Occasional
Frequency of ponding: Occasional
Available water capacity: Low (about 5.5 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6w
Hydrologic Soil Group: A/D
Ecological site: Gravelly Flats (R022AE214CA)

Typical profile

0 to 10 inches: Mucky gravelly silt loam
10 to 27 inches: Gravelly loam
27 to 32 inches: Gravelly loamy fine sand
32 to 46 inches: Gravelly fine sand

Description of Tahoe, Gravelly Wet

Setting

Landform: Flood plains, valley flats
Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Concave
Parent material: Alluvium derived from granitic and volcanic rock

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to very high (1.42 to 14.17 in/hr)
Depth to water table: About 0 to 10 inches
Frequency of flooding: Frequent
Frequency of ponding: Frequent
Available water capacity: Low (about 5.5 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6w
Hydrologic Soil Group: A/D
Ecological site: Gravelly Flats (R022AE214CA)

Typical profile

0 to 10 inches: Mucky gravelly silt loam
10 to 27 inches: Gravelly loam
27 to 32 inches: Gravelly loamy fine sand
32 to 46 inches: Gravelly fine sand

Minor Components

Riverwash

Percent of map unit: 5 percent

Marla

Percent of map unit: 5 percent
Landform: Outwash terraces, valley flats
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread, talf
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Pinus contorta var. murrayana/Salix lemmonii (F022AE002CA)

Watah

Percent of map unit: 5 percent
Landform: Fens, flood plains, valley flats
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: Flooded Basins (R022AE209CA)

Tahoe, silt loam

Percent of map unit: 5 percent
Landform: Flood plains, valley flats
Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: Frigid Loamy Terrace (R022AE208CA)

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Tahoe Basin Area, California and Nevada

7151—Jorge very cobbly fine sandy loam, 5 to 15 percent slopes, rubbly

Map Unit Setting

Landscape: Mountains
Elevation: 6,230 to 7,970 feet
Mean annual precipitation: 23 to 41 inches
Mean annual air temperature: 40 to 46 degrees F
Frost-free period: 40 to 90 days

Map Unit Composition

Jorge, very cobbly fine sandy loam, and similar soils: 80 percent
Minor components: 20 percent

Description of Jorge, Very Cobbly Fine Sandy Loam

Setting

Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Colluvium derived from andesite

Properties and qualities

Slope: 5 to 15 percent
Surface area covered with cobbles, stones or boulders: 21.0 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 5.7 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 4e
Hydrologic Soil Group: B
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Typical profile

0 to 2 inches: Slightly decomposed plant material
2 to 9 inches: Very cobbly fine sandy loam
9 to 28 inches: Very cobbly fine sandy loam
28 to 34 inches: Very cobbly fine sandy loam
34 to 59 inches: Very cobbly loam

Minor Components

Waca

Percent of map unit: 5 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Ecological site: Abies concolor-Pinus jeffreyi/Ceanothus cordulatus-Symphoricarpos mollis/Kelloggia galioides (F022AE007CA)

Tahoma

Percent of map unit: 5 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Linear
Across-slope shape: Convex, linear
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Jorge, very cobbly loam

Percent of map unit: 4 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Ellispeak

Percent of map unit: 2 percent
Landform: Glacial-valley walls
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Volcanic Slopes (R022AE217CA)

Sky

Percent of map unit: 2 percent
Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: Tsuga mertensiana-Abies magnifica/Eucephalus breweri (F022AE019CA)

Rock outcrop, volcanic

Percent of map unit: 1 percent
Landform: Mountains
Landform position (two-dimensional): Summit, backslope, shoulder
Landform position (three-dimensional): Mountainflank, side slope

Aquic xerorthents

Percent of map unit: 1 percent
Landform: Drainageways
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Head slope, side slope
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: Populus tremuloides-Abies concolor/Elymus glaucus (F022AE004CA)

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe Basin Area, California and Nevada

7152—Jorge very cobbly fine sandy loam, 15 to 30 percent slopes, rubbly

Map Unit Setting

Landscape: Mountains
Elevation: 6,200 to 8,100 feet
Mean annual precipitation: 23 to 55 inches
Mean annual air temperature: 40 to 46 degrees F
Frost-free period: 40 to 90 days

Map Unit Composition

Jorge, very cobbly fine sandy loam, and similar soils: 80 percent
Minor components: 20 percent

Description of Jorge, Very Cobbly Fine Sandy Loam

Setting

Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Colluvium derived from andesite

Properties and qualities

Slope: 15 to 30 percent
Surface area covered with cobbles, stones or boulders: 21.0 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 5.7 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Typical profile

0 to 2 inches: Slightly decomposed plant material
2 to 9 inches: Very cobbly fine sandy loam
9 to 28 inches: Very cobbly fine sandy loam
28 to 34 inches: Very cobbly fine sandy loam
34 to 59 inches: Very cobbly loam

Minor Components

Waca

Percent of map unit: 5 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Ecological site: Abies concolor-Pinus jeffreyi/Ceanothus cordulatus-Symphoricarpos mollis/Kelloggia galioides (F022AE007CA)

Tahoma

Percent of map unit: 5 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Linear
Across-slope shape: Convex, linear
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Jorge, very cobbly loam

Percent of map unit: 4 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Ellispeak

Percent of map unit: 2 percent
Landform: Glacial-valley walls
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Volcanic Slopes (R022AE217CA)

Sky

Percent of map unit: 2 percent
Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: Tsuga mertensiana-Abies magnifica/Eucephalus breweri (F022AE019CA)

Rock outcrop, volcanic

Percent of map unit: 1 percent
Landform: Mountains
Landform position (two-dimensional): Backslope, shoulder, summit
Landform position (three-dimensional): Mountainflank, side slope

Aquic xerorthents

Percent of map unit: 1 percent
Landform: Drainageways
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Head slope, side slope
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: Populus tremuloides-Abies concolor/Elymus glaucus (F022AE004CA)

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe Basin Area, California and Nevada

7153—Jorge very cobbly fine sandy loam, 30 to 50 percent slopes, rubbly

Map Unit Setting

Landscape: Mountains
Elevation: 6,230 to 8,070 feet
Mean annual precipitation: 23 to 53 inches
Mean annual air temperature: 40 to 46 degrees F
Frost-free period: 40 to 90 days

Map Unit Composition

Jorge, very cobbly fine sandy loam, and similar soils: 80 percent
Minor components: 20 percent

Description of Jorge, Very Cobbly Fine Sandy Loam

Setting

Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Colluvium derived from andesite

Properties and qualities

Slope: 30 to 50 percent
Surface area covered with cobbles, stones or boulders: 21.0 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 5.7 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Typical profile

0 to 2 inches: Slightly decomposed plant material
2 to 9 inches: Very cobbly fine sandy loam
9 to 28 inches: Very cobbly fine sandy loam
28 to 34 inches: Very cobbly fine sandy loam
34 to 59 inches: Very cobbly loam

Minor Components

Waca

Percent of map unit: 5 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Ecological site: Abies concolor-Pinus jeffreyi/Ceanothus cordulatus-Symphoricarpos mollis/Kelloggia galioides (F022AE007CA)

Tahoma

Percent of map unit: 5 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Linear
Across-slope shape: Convex, linear
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Jorge, very cobbly loam

Percent of map unit: 4 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Ellispeak

Percent of map unit: 2 percent
Landform: Glacial-valley walls
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Volcanic Slopes (R022AE217CA)

Sky

Percent of map unit: 2 percent
Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: Tsuga mertensiana-Abies magnifica/Eucephalus breweri (F022AE019CA)

Rock outcrop, volcanic

Percent of map unit: 1 percent
Landform: Mountains
Landform position (two-dimensional): Backslope, shoulder, summit
Landform position (three-dimensional): Mountainflank, side slope

Aquic xerorthents

Percent of map unit: 1 percent
Landform: Drainageways
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Side slope, head slope
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: Populus tremuloides-Abies concolor/Elymus glaucus (F022AE004CA)

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe Basin Area, California and Nevada

7155—Jorge very cobbly loam, 15 to 50 percent slopes, extremely stony

Map Unit Setting

Landscape: Mountains
Elevation: 6,230 to 8,220 feet
Mean annual precipitation: 29 to 37 inches
Mean annual air temperature: 40 to 46 degrees F
Frost-free period: 40 to 90 days

Map Unit Composition

Jorge, very cobbly loam, and similar soils: 75 percent
Minor components: 25 percent

Description of Jorge, Very Cobbly Loam

Setting

Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Colluvium over residuum weathered from volcanic rock

Properties and qualities

Slope: 15 to 50 percent
Surface area covered with cobbles, stones or boulders: 15.0 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.14 to 1.42 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 5.8 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Typical profile

0 to 1 inches: Slightly decomposed plant material
1 to 15 inches: Very cobbly loam
15 to 45 inches: Very cobbly clay loam
45 to 60 inches: Very cobbly loam

Minor Components

Rubble land, talus

Percent of map unit: 10 percent
Landform: Mountains
Landform position (two-dimensional): Footslope, backslope
Landform position (three-dimensional): Mountainflank, side slope

Tahoma

Percent of map unit: 5 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Linear
Across-slope shape: Convex, linear
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Rock outcrop, volcanic

Percent of map unit: 3 percent
Landform: Mountains
Landform position (two-dimensional): Backslope, shoulder, summit
Landform position (three-dimensional): Mountainflank, side slope

Ellispeak

Percent of map unit: 3 percent
Landform: Glacial-valley walls
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Volcanic Slopes (R022AE217CA)

Waca

Percent of map unit: 3 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Ecological site: Abies concolor-Pinus jeffreyi/Ceanothus cordulatus-Symphoricarpos mollis/Kelloggia galioides (F022AE007CA)

Tahoe, gravelly

Percent of map unit: 1 percent
Landform: Flood plains, valley flats
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Concave

Ecological site: Gravelly Flats (R022AE214CA)

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe Basin Area, California and Nevada

7156—Jorge-Tahoma complex, 15 to 30 percent slopes

Map Unit Setting

Landscape: Mountains
Elevation: 6,200 to 8,050 feet
Mean annual precipitation: 25 to 57 inches
Mean annual air temperature: 40 to 46 degrees F
Frost-free period: 40 to 90 days

Map Unit Composition

Jorge, very gravelly sandy loam, and similar soils: 45 percent
Tahoma and similar soils: 35 percent
Minor components: 20 percent

Description of Jorge, Very Gravelly Sandy Loam

Setting

Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Colluvium over residuum weathered from volcanic rock

Properties and qualities

Slope: 15 to 30 percent
Surface area covered with cobbles, stones or boulders: 5.0 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.14 to 1.42 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 6.4 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6e
Hydrologic Soil Group: A
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Typical profile

0 to 2 inches: Slightly decomposed plant material
2 to 24 inches: Very gravelly sandy loam
24 to 32 inches: Very gravelly loam
32 to 48 inches: Very gravelly loam
48 to 84 inches: Very gravelly sandy loam

Description of Tahoma

Setting

Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Linear
Across-slope shape: Convex, linear
Parent material: Colluvium over residuum weathered from andesite

Properties and qualities

Slope: 15 to 30 percent
Surface area covered with cobbles, stones or boulders: 2.0 percent
Depth to restrictive feature: 40 to 80 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 8.9 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Typical profile

0 to 3 inches: Slightly decomposed plant material
3 to 14 inches: Very cobbly sandy loam
14 to 22 inches: Very cobbly sandy loam
22 to 38 inches: Gravelly loam
38 to 59 inches: Gravelly clay loam
59 to 71 inches: Clay loam
71 to 81 inches: Bedrock

Minor Components

Waca

Percent of map unit: 10 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Ecological site: Abies concolor-Pinus jeffreyi/Ceanothus cordulatus-Symphoricarpos mollis/Kelloggia galioides (F022AE007CA)

Inville

Percent of map unit: 5 percent
Landform: Hillslopes on outwash terraces

Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope, tread
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Pinus jeffreyi-Abies concolor/Arctostaphylos patula-Ceanothus prostratus/Pedicularis semibarbata-Kelloggia galioides (F022AE006CA)

Rubble land, talus
Percent of map unit: 2 percent
Landform: Mountains
Landform position (two-dimensional): Footslope, backslope
Landform position (three-dimensional): Mountainflank, side slope

Rock outcrop, volcanic
Percent of map unit: 1 percent
Landform: Mountains
Landform position (two-dimensional): Backslope, shoulder, summit
Landform position (three-dimensional): Mountainflank, side slope

Ellispeak
Percent of map unit: 1 percent
Landform: Glacial-valley walls
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Volcanic Slopes (R022AE217CA)

Tahoe, gravelly
Percent of map unit: 1 percent
Landform: Flood plains, valley flats
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: Gravelly Flats (R022AE214CA)

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Map Unit Description

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

Tahoe Basin Area, California and Nevada

7157—Jorge-Tahoma complex, 30 to 50 percent slopes

Map Unit Setting

Landscape: Mountains
Elevation: 6,200 to 8,220 feet
Mean annual precipitation: 25 to 53 inches
Mean annual air temperature: 40 to 46 degrees F
Frost-free period: 40 to 90 days

Map Unit Composition

Jorge, very gravelly sandy loam, and similar soils: 55 percent
Tahoma and similar soils: 25 percent
Minor components: 20 percent

Description of Jorge, Very Gravelly Sandy Loam

Setting

Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Colluvium over residuum weathered from volcanic rock

Properties and qualities

Slope: 30 to 50 percent
Surface area covered with cobbles, stones or boulders: 5.0 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.14 to 1.42 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 6.4 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Typical profile

0 to 2 inches: Slightly decomposed plant material
2 to 24 inches: Very gravelly sandy loam
24 to 32 inches: Very gravelly loam
32 to 48 inches: Very gravelly loam
48 to 84 inches: Very gravelly sandy loam

Description of Tahoma

Setting

Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Linear
Across-slope shape: Convex, linear
Parent material: Colluvium over residuum weathered from andesite

Properties and qualities

Slope: 30 to 50 percent
Surface area covered with cobbles, stones or boulders: 2.0 percent
Depth to restrictive feature: 40 to 80 inches to lithic bedrock
Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 8.9 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Typical profile

0 to 3 inches: Slightly decomposed plant material
3 to 14 inches: Very cobbly sandy loam
14 to 22 inches: Very cobbly sandy loam
22 to 38 inches: Gravelly loam
38 to 59 inches: Gravelly clay loam
59 to 71 inches: Clay loam
71 to 81 inches: Bedrock

Minor Components

Waca

Percent of map unit: 10 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Ecological site: Abies concolor-Pinus jeffreyi/Ceanothus cordulatus-Symphoricarpos mollis/Kelloggia galioides (F022AE007CA)

Inville

Percent of map unit: 5 percent
Landform: Hillslopes on outwash terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope, tread
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Pinus jeffreyi-Abies concolor/Arctostaphylos patula-Ceanothus prostratus/Pedicularis semibarbata-Kelloggia galioides (F022AE006CA)

Rubble land, talus

Percent of map unit: 2 percent
Landform: Mountains
Landform position (two-dimensional): Footslope, backslope
Landform position (three-dimensional): Mountainflank, side slope

Rock outcrop, volcanic

Percent of map unit: 1 percent

Landform: Mountains
Landform position (two-dimensional): Backslope, shoulder, summit
Landform position (three-dimensional): Mountainflank, side slope

Ellispeak
Percent of map unit: 1 percent
Landform: Glacial-valley walls
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Volcanic Slopes (R022AE217CA)

Tahoe, gravelly
Percent of map unit: 1 percent
Landform: Flood plains, valley flats
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: Gravelly Flats (R022AE214CA)

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe Basin Area, California and Nevada

7161—Kingsbeach stony sandy loam, 2 to 15 percent slopes

Map Unit Setting

Landscape: Mountains
Elevation: 6,220 to 6,710 feet
Mean annual precipitation: 23 to 33 inches
Mean annual air temperature: 41 to 46 degrees F
Frost-free period: 30 to 80 days

Map Unit Composition

Kingsbeach and similar soils: 80 percent
Minor components: 20 percent

Description of Kingsbeach

Setting

Landform: Alluvial fans, lake terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium and/or colluvium derived from andesite over lacustrine deposits

Properties and qualities

Slope: 2 to 15 percent
Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: About 48 to 72 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: High (about 9.9 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Typical profile

0 to 1 inches: Slightly decomposed plant material
1 to 6 inches: Stony sandy loam
6 to 20 inches: Loam
20 to 30 inches: Sandy clay loam
30 to 61 inches: Clay loam

Minor Components

Tahoma

Percent of map unit: 10 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Linear
Across-slope shape: Convex, linear
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Jorge, very gravelly sandy loam

Percent of map unit: 8 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Beaches

Percent of map unit: 1 percent
Landform: Beaches

Dunes

Percent of map unit: 1 percent

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe Basin Area, California and Nevada

7181—Paige medial sandy loam, 5 to 15 percent slopes

Map Unit Setting

Landscape: Mountains
Elevation: 6,280 to 7,230 feet
Mean annual precipitation: 33 to 63 inches
Mean annual air temperature: 41 to 46 degrees F
Frost-free period: 40 to 90 days

Map Unit Composition

Paige and similar soils: 80 percent
Minor components: 20 percent

Description of Paige

Setting

Landform: Moraines
Landform position (two-dimensional): Backslope, summit, shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Colluvium over till derived from volcanic rock

Properties and qualities

Slope: 5 to 15 percent
Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: 59 to 79 inches to dense material
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: High (about 9.2 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance
Land capability (nonirrigated): 4e
Hydrologic Soil Group: A
Ecological site: Abies magnifica-Abies concolor/Symphoricarpos mollis-Ribes cereum/Eucephalus breweri-Thalictrum fendleri (F022AE008CA)

Typical profile

0 to 3 inches: Slightly decomposed plant material
3 to 20 inches: Medial sandy loam
20 to 48 inches: Medial cobbly sandy loam
48 to 62 inches: Cobbly loam
62 to 80 inches: Extremely stony coarse sandy loam

Minor Components

Kneeridge, well drained

Percent of map unit: 7 percent
Landform: Moraines
Landform position (two-dimensional): Footslope, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave
Across-slope shape: Linear
Ecological site: Abies concolor-Pinus jeffreyi/Ceanothus cordulatus-Symphoricarpos mollis/Kelloggia galioides (F022AE007CA)

Jorge, very gravelly sandy loam

Percent of map unit: 6 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Tahoe, gravelly

Percent of map unit: 5 percent
Landform: Flood plains, valley flats
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: Gravelly Flats (R022AE214CA)

Waca

Percent of map unit: 2 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Ecological site: Abies concolor-Pinus jeffreyi/Ceanothus cordulatus-Symphoricarpos mollis/Kelloggia galioides (F022AE007CA)

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Map Unit Description

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

Tahoe Basin Area, California and Nevada

7221—Tahoma very cobbly sandy loam, 2 to 15 percent slopes, very stony

Map Unit Setting

Landscape: Mountains
Elevation: 6,360 to 7,760 feet
Mean annual precipitation: 25 to 43 inches
Mean annual air temperature: 41 to 46 degrees F
Frost-free period: 40 to 90 days

Map Unit Composition

Tahoma and similar soils: 80 percent
Minor components: 20 percent

Description of Tahoma

Setting

Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Linear
Across-slope shape: Convex, linear
Parent material: Colluvium over residuum weathered from andesite

Properties and qualities

Slope: 2 to 15 percent
Surface area covered with cobbles, stones or boulders: 2.0 percent
Depth to restrictive feature: 40 to 80 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 8.9 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 4e
Hydrologic Soil Group: B
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Typical profile

0 to 3 inches: Slightly decomposed plant material
3 to 14 inches: Very cobbly sandy loam
14 to 22 inches: Very cobbly sandy loam
22 to 38 inches: Gravelly loam
38 to 59 inches: Gravelly clay loam
59 to 71 inches: Clay loam
71 to 81 inches: Bedrock

Minor Components

Waca

Percent of map unit: 10 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Ecological site: Abies concolor-Pinus jeffreyi/Ceanothus cordulatus-Symphoricarpos mollis/Kelloggia galioides (F022AE007CA)

Inville

Percent of map unit: 4 percent
Landform: Hillslopes on outwash terraces

Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope, tread
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Pinus jeffreyi-Abies concolor/Arctostaphylos patula-Ceanothus prostratus/Pedicularis semibarbata-Kelloggia galioides (F022AE006CA)

Rubble land, talus
Percent of map unit: 3 percent
Landform: Mountains
Landform position (two-dimensional): Backslope, footslope
Landform position (three-dimensional): Mountainflank, side slope

Rock outcrop, volcanic
Percent of map unit: 1 percent
Landform: Mountains
Landform position (two-dimensional): Shoulder, summit, backslope
Landform position (three-dimensional): Mountainflank, side slope

Ellispeak
Percent of map unit: 1 percent
Landform: Glacial-valley walls
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Volcanic Slopes (R022AE217CA)

Aquic xerorthents
Percent of map unit: 1 percent
Landform: Drainageways
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Side slope, head slope
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: Populus tremuloides-Abies concolor/Elymus glaucus (F022AE004CA)

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Map Unit Description

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

Tahoe Basin Area, California and Nevada

7222—Tahoma-Jorge complex, 2 to 15 percent slopes

Map Unit Setting

Landscape: Mountains
Elevation: 6,200 to 7,820 feet
Mean annual precipitation: 25 to 53 inches
Mean annual air temperature: 40 to 46 degrees F
Frost-free period: 40 to 90 days

Map Unit Composition

Tahoma and similar soils: 50 percent
Jorge, very gravelly sandy loam, and similar soils: 30 percent
Minor components: 20 percent

Description of Tahoma

Setting

Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Linear
Across-slope shape: Convex, linear
Parent material: Colluvium over residuum weathered from andesite

Properties and qualities

Slope: 2 to 15 percent
Surface area covered with cobbles, stones or boulders: 2.0 percent
Depth to restrictive feature: 40 to 80 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 8.9 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 4e
Hydrologic Soil Group: B
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Typical profile

0 to 3 inches: Slightly decomposed plant material
3 to 14 inches: Very cobbly sandy loam
14 to 22 inches: Very cobbly sandy loam
22 to 38 inches: Gravelly loam
38 to 59 inches: Gravelly clay loam
59 to 71 inches: Clay loam
71 to 81 inches: Bedrock

Description of Jorge, Very Gravelly Sandy Loam

Setting

Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Colluvium over residuum weathered from volcanic rock

Properties and qualities

Slope: 2 to 15 percent
Surface area covered with cobbles, stones or boulders: 5.0 percent
Depth to restrictive feature: More than 80 inches

Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.14 to 1.42 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 6.4 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 4e
Hydrologic Soil Group: A
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Typical profile

0 to 2 inches: Slightly decomposed plant material
2 to 24 inches: Very gravelly sandy loam
24 to 32 inches: Very gravelly loam
32 to 48 inches: Very gravelly loam
48 to 84 inches: Very gravelly sandy loam

Minor Components

Waca

Percent of map unit: 10 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Ecological site: Abies concolor-Pinus jeffreyi/Ceanothus cordulatus-Symphoricarpos mollis/Kelloggia galioides (F022AE007CA)

Inville

Percent of map unit: 5 percent
Landform: Hillslopes on outwash terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope, tread
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Pinus jeffreyi-Abies concolor/Arctostaphylos patula-Ceanothus prostratus/Pedicularis semibarbata-Kelloggia galioides (F022AE006CA)

Rubble land, talus

Percent of map unit: 2 percent
Landform: Mountains
Landform position (two-dimensional): Backslope, footslope
Landform position (three-dimensional): Mountainflank, side slope

Rock outcrop, volcanic

Percent of map unit: 1 percent
Landform: Mountains

Landform position (two-dimensional): Shoulder, summit, backslope
Landform position (three-dimensional): Mountainflank, side slope

Ellispeak

Percent of map unit: 1 percent
Landform: Glacial-valley walls
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Volcanic Slopes (R022AE217CA)

Tahoe, gravelly

Percent of map unit: 1 percent
Landform: Flood plains, valley flats
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: Gravelly Flats (R022AE214CA)

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe Basin Area, California and Nevada

9011—Oxyaquic Cryorthents-Aquic Xerorthents-Tahoe complex, 0 to 15 percent slopes

Map Unit Setting

Landscape: Mountains
Elevation: 6,220 to 8,790 feet
Mean annual precipitation: 23 to 61 inches
Mean annual air temperature: 39 to 46 degrees F
Frost-free period: 20 to 75 days

Map Unit Composition

Oxyaquic cryorthents and similar soils: 30 percent
Aquic xerorthents and similar soils: 28 percent
Tahoe, gravelly, and similar soils: 15 percent
Minor components: 27 percent

Description of Oxyaquic Cryorthents

Setting

Landform: Drainageways
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Head slope, side slope
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Alluvium and/or colluvium derived from mixed

Properties and qualities

Slope: 0 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to very high (1.42 to 14.17 in/hr)
Depth to water table: About 20 to 39 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Available water capacity: Very low (about 2.5 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6w
Hydrologic Soil Group: A
Ecological site: Populus tremuloides-Abies concolor/Elymus glaucus (F022AE004CA)

Typical profile

0 to 0 inches: Moderately decomposed plant material
0 to 2 inches: Gravelly loamy coarse sand
2 to 5 inches: Gravelly loamy coarse sand
5 to 9 inches: Gravelly loamy coarse sand
9 to 20 inches: Gravelly loamy coarse sand
20 to 32 inches: Very gravelly loamy coarse sand

32 to 52 inches: Very gravelly coarse sand
52 to 80 inches: Coarse sand
80 to 112 inches: Coarse sand

Description of Aquic Xerorthents

Setting

Landform: Drainageways
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Head slope, side slope
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Alluvium and/or colluvium derived from mixed

Properties and qualities

Slope: 0 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to very high (1.42 to 14.17 in/hr)
Depth to water table: About 20 to 39 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Available water capacity: Moderate (about 6.5 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6w
Hydrologic Soil Group: A
Ecological site: Populus tremuloides-Abies concolor/Elymus glaucus (F022AE004CA)

Typical profile

0 to 0 inches: Moderately decomposed plant material
0 to 1 inches: Highly decomposed plant material
1 to 4 inches: Sandy loam
4 to 9 inches: Sandy loam
9 to 14 inches: Coarse sandy loam
14 to 29 inches: Sandy loam
29 to 41 inches: Gravelly sandy loam
41 to 45 inches: Loamy coarse sand
45 to 59 inches: Sandy loam

Description of Tahoe, Gravelly

Setting

Landform: Flood plains, valley flats
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Concave
Parent material: Alluvium derived from granitic and volcanic rock

Properties and qualities

Slope: 0 to 5 percent

Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to very high (1.42 to 14.17 in/hr)
Depth to water table: About 0 to 12 inches
Frequency of flooding: Occasional
Frequency of ponding: Occasional
Available water capacity: Low (about 5.5 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6w
Hydrologic Soil Group: A/D
Ecological site: Gravelly Flats (R022AE214CA)

Typical profile

0 to 10 inches: Mucky gravelly silt loam
10 to 27 inches: Gravelly loam
27 to 32 inches: Gravelly loamy fine sand
32 to 46 inches: Gravelly fine sand

Minor Components

Bidart, mucky silt loam

Percent of map unit: 10 percent
Landform: Flood plains, valley flats
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: Cold semi-wet alluvial flat (R022AE221CA)

Watah

Percent of map unit: 10 percent
Landform: Fens, flood plains, valley flats
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: Flooded Basins (R022AE209CA)

Marla

Percent of map unit: 5 percent
Landform: Outwash terraces, valley flats
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread, talf
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Pinus contorta var. murrayana/Salix lemmonii (F022AE002CA)

Riverwash

Percent of map unit: 2 percent

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Tahoe Basin Area, California and Nevada

9122—Watsonlake gravelly sandy loam, 15 to 30 percent slopes, rubbly

Map Unit Setting

Landscape: Mountains
Elevation: 7,300 to 8,560 feet
Mean annual precipitation: 35 to 43 inches
Mean annual air temperature: 38 to 42 degrees F
Frost-free period: 25 to 75 days

Map Unit Composition

Watsonlake and similar soils: 80 percent
Minor components: 20 percent

Description of Watsonlake

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Colluvium derived from andesite

Properties and qualities

Slope: 15 to 30 percent
Surface area covered with cobbles, stones or boulders: 21.0 percent
Depth to restrictive feature: 59 to 79 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 7.0 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: Abies magnifica-Abies concolor/Ceanothus cordulatus-Arctostaphylos patula (F022AE024CA)

Typical profile

0 to 2 inches: Slightly decomposed plant material
2 to 8 inches: Gravelly sandy loam
8 to 18 inches: Gravelly sandy loam
18 to 27 inches: Very gravelly sandy clay loam
27 to 35 inches: Very cobbly sandy clay loam
35 to 52 inches: Very cobbly sandy clay loam
52 to 67 inches: Stony loam

67 to 77 inches: Bedrock

Minor Components

Waca

Percent of map unit: 5 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Ecological site: Abies concolor-Pinus jeffreyi/Ceanothus cordulatus-Symphoricarpos mollis/Kelloggia galioides (F022AE007CA)

Jorge, very cobbly fine sandy loam

Percent of map unit: 5 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Tahoma

Percent of map unit: 5 percent
Landform: Hillslopes, mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope
Down-slope shape: Linear
Across-slope shape: Convex, linear
Ecological site: Abies concolor-Pinus lambertiana/Quercus vacciniifolia-Amelanchier utahensis/Pyrola picta (F022AE013CA)

Sky

Percent of map unit: 2 percent
Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: Tsuga mertensiana-Abies magnifica/Eucephalus breweri (F022AE019CA)

Rock outcrop, volcanic

Percent of map unit: 1 percent
Landform: Mountains
Landform position (two-dimensional): Summit, backslope, shoulder
Landform position (three-dimensional): Mountainflank, side slope

Oxyaquic cryorthents

Percent of map unit: 1 percent
Landform: Drainageways

Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Head slope, side slope
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: Populus tremuloides-Abies concolor/Elymus glaucus (F022AE004CA)

Ellispeak

Percent of map unit: 1 percent
Landform: Glacial-valley walls
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Volcanic Slopes (R022AE217CA)

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe Basin Area, California and Nevada

9165—Sky-Melody complex, 30 to 50 percent slopes

Map Unit Setting

Landscape: Mountains
Elevation: 7,040 to 8,720 feet
Mean annual precipitation: 29 to 63 inches
Mean annual air temperature: 38 to 42 degrees F
Frost-free period: 25 to 75 days

Map Unit Composition

Sky and similar soils: 50 percent
Melody and similar soils: 40 percent
Minor components: 10 percent

Description of Sky

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Colluvium over residuum from andesitic tuff

Properties and qualities

Slope: 30 to 50 percent
Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: 20 to 39 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low (0.01 to 0.14 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.3 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: Tsuga mertensiana-Abies magnifica/Eucephalus breweri (F022AE019CA)

Typical profile

0 to 1 inches: Slightly decomposed plant material
1 to 2 inches: Highly decomposed plant material
2 to 3 inches: Medial gravelly sandy loam
3 to 5 inches: Cobbly sandy loam
5 to 24 inches: Very stony medial sandy loam
24 to 34 inches: Bedrock

Description of Melody

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Colluvium derived from volcanic rock

Properties and qualities

Slope: 30 to 50 percent
Surface area covered with cobbles, stones or boulders: 25.0 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock
Drainage class: Excessively drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 1.2 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: Cryic Volcanic Slope (R022AE219CA)

Typical profile

0 to 1 inches: Slightly decomposed plant material
1 to 2 inches: Very cobbly ashy sandy loam
2 to 9 inches: Ashy very cobbly sandy loam
9 to 15 inches: Ashy very cobbly sandy loam
15 to 25 inches: Bedrock

Minor Components

Mountrose

Percent of map unit: 4 percent
Landform: Mountain slopes
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Deep Cryic Volcanic Slope (R022AE215CA)

Wardcreek

Percent of map unit: 3 percent
Landform: Mountain slopes
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Cryic Volcanic Slope (R022AE219CA)

Meiss

Percent of map unit: 1 percent
Landform: Mountains
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Upper third of mountainflank, mountaintop, side slope
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: Shallow Andesite Ridge (R022AE211CA)

Oxyaquic cryorthents

Percent of map unit: 1 percent
Landform: Drainageways
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Head slope, side slope
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: Populus tremuloides-Abies concolor/Elymus glaucus (F022AE004CA)

Lithnip

Percent of map unit: 1 percent
Landform: Mountains
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: BARREN SLOPE 20+ P.Z. (R022AY012NV)
Other vegetative classification: BARREN SLOPE 30+" P.Z. (022XY012NV_2)

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe National Forest Area, California

AQB—Aquolls and Borolls, 0 to 5 percent slopes

Map Unit Setting

Landscape: Valleys
Elevation: 5,000 to 8,500 feet
Mean annual precipitation: 30 to 60 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 25 to 200 days

Map Unit Composition

Borolls: 45 percent
Aquolls and similar soils: 45 percent

Description of Aquolls

Setting

Landform: Marshes
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Flat
Down-slope shape: Linear
Across-slope shape: Linear

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Very poorly drained
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Description of Borolls

Setting

Landform: Swales
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Flat
Down-slope shape: Concave
Across-slope shape: Linear

Data Source Information

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe National Forest Area, California

ARE—Aldi-Kyburz complex, 2 to 30 percent slopes

Map Unit Setting

Landscape: Mountains
Elevation: 5,200 to 6,500 feet
Mean annual precipitation: 20 to 30 inches
Mean annual air temperature: 39 to 45 degrees F
Frost-free period: 50 to 70 days

Map Unit Composition

Aldi and similar soils: 55 percent
Kyburz and similar soils: 30 percent

Description of Aldi

Setting

Landform: Ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Upper third of mountainflank
Down-slope shape: Linear
Across-slope shape: Linear

Properties and qualities

Slope: 2 to 30 percent
Depth to restrictive feature: 18 to 22 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 7e
Hydrologic Soil Group: D

Description of Kyburz

Setting

Landform: Ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Upper third of mountainflank
Down-slope shape: Linear
Across-slope shape: Linear

Properties and qualities

Slope: 2 to 30 percent
Depth to restrictive feature: 34 to 38 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)

Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 4e
Hydrologic Soil Group: B

Data Source Information

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe National Forest Area, California

EUB—Euer-Martis variant complex, 2 to 5 percent slopes

Map Unit Setting

Landscape: Alluvial plain remnants
Elevation: 5,500 to 6,300 feet
Mean annual precipitation: 25 to 35 inches
Mean annual air temperature: 43 to 45 degrees F
Frost-free period: 20 to 40 days

Map Unit Composition

Euer and similar soils: 55 percent
Martis variant and similar soils: 35 percent

Description of Euer

Setting

Landform: Outwash terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Riser
Down-slope shape: Linear
Across-slope shape: Linear

Properties and qualities

Slope: 2 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 4e
Hydrologic Soil Group: B

Description of Martis Variant

Setting

Landform: Outwash terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Riser
Down-slope shape: Linear
Across-slope shape: Linear

Properties and qualities

Slope: 2 to 5 percent
Depth to restrictive feature: 51 to 55 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)

Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6e
Hydrologic Soil Group: B

Data Source Information

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe National Forest Area, California

EWB—Inville-Riverwash-Aquolls complex, 2 to 5 percent slopes

Map Unit Setting

Landscape: Alluvial plain remnants, alluvial plains
Elevation: 5,500 to 6,300 feet
Mean annual precipitation: 25 to 35 inches
Mean annual air temperature: 43 to 45 degrees F
Frost-free period: 20 to 40 days

Map Unit Composition

Inville and similar soils: 55 percent
Riverwash: 20 percent
Aquolls and similar soils: 15 percent

Description of Inville

Setting

Landform: Outwash terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Riser
Down-slope shape: Linear
Across-slope shape: Linear

Properties and qualities

Slope: 2 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6s
Hydrologic Soil Group: B

Description of Riverwash

Setting

Landform: Rivers
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Flat
Down-slope shape: Concave
Across-slope shape: Linear

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 8w
Hydrologic Soil Group: A/D

Description of Aquolls

Setting

Landform: Swamps
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Flat
Down-slope shape: Concave
Across-slope shape: Concave

Properties and qualities

Slope: 2 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Very poorly drained
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6w
Hydrologic Soil Group: D

Data Source Information

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe National Forest Area, California

FUE—Kyburz-Trojan complex, 9 to 30 percent slopes

Map Unit Setting

Landscape: Mountains
Elevation: 5,500 to 6,400 feet
Mean annual precipitation: 18 to 40 inches
Mean annual air temperature: 39 to 50 degrees F
Frost-free period: 20 to 30 days

Map Unit Composition

Kyburz and similar soils: 60 percent
Trojan and similar soils: 25 percent

Description of Kyburz

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Upper third of mountainflank
Down-slope shape: Linear
Across-slope shape: Linear

Properties and qualities

Slope: 9 to 30 percent
Depth to restrictive feature: 34 to 38 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6e
Hydrologic Soil Group: B

Description of Trojan

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Upper third of mountainflank
Down-slope shape: Concave
Across-slope shape: Linear

Properties and qualities

Slope: 9 to 30 percent
Depth to restrictive feature: 67 to 71 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)

Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6e
Hydrologic Soil Group: B

Data Source Information

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe National Forest Area, California

JSE—Jorge-Cryumbrepts, wet-Tahoma complex, 2 to 30 percent slopes

Map Unit Setting

Landscape: Mountains
Elevation: 6,000 to 8,000 feet
Mean annual precipitation: 4 to 4 inches
Mean annual air temperature: 39 to 45 degrees F
Frost-free period: 25 to 75 days

Map Unit Composition

Jorge and similar soils: 55 percent
Tahoma and similar soils: 15 percent
Cryumbrepts, wet, and similar soils: 15 percent

Description of Jorge

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear

Properties and qualities

Slope: 2 to 30 percent
Depth to restrictive feature: 47 to 51 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6e
Hydrologic Soil Group: B

Description of Cryumbrepts, Wet

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Concave
Across-slope shape: Concave

Properties and qualities

Slope: 2 to 30 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained

Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6w
Hydrologic Soil Group: D

Description of Tahoma

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Concave
Across-slope shape: Linear

Properties and qualities

Slope: 2 to 30 percent
Depth to restrictive feature: 41 to 45 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6e
Hydrologic Soil Group: B

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe National Forest Area, California

JTE—Jorge-Tahoma complex, 2 to 30 percent slopes

Map Unit Setting

Landscape: Mountains
Elevation: 6,000 to 8,000 feet
Mean annual precipitation: 35 to 45 inches
Mean annual air temperature: 39 to 45 degrees F
Frost-free period: 25 to 75 days

Map Unit Composition

Jorge and similar soils: 65 percent
Tahoma and similar soils: 20 percent

Description of Jorge

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear

Properties and qualities

Slope: 2 to 30 percent
Depth to restrictive feature: 47 to 51 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6e
Hydrologic Soil Group: B

Description of Tahoma

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Concave
Across-slope shape: Linear

Properties and qualities

Slope: 2 to 30 percent
Depth to restrictive feature: 41 to 45 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)

Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6e
Hydrologic Soil Group: B

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe National Forest Area, California

JTF—Jorge very stony sandy loam, 30 to 50 percent slopes

Map Unit Setting

Landscape: Mountains
Elevation: 6,000 to 8,000 feet
Mean annual precipitation: 35 to 45 inches
Mean annual air temperature: 39 to 45 degrees F
Frost-free period: 25 to 75 days

Map Unit Composition

Jorge and similar soils: 85 percent

Description of Jorge

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear

Properties and qualities

Slope: 30 to 50 percent
Depth to restrictive feature: 47 to 51 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 7e
Hydrologic Soil Group: B

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe National Forest Area, California

JUG—Jorge-Rubble land complex, 30 to 75 percent slopes

Map Unit Setting

Landscape: Mountains
Elevation: 6,000 to 8,000 feet
Mean annual precipitation: 35 to 45 inches
Mean annual air temperature: 39 to 45 degrees F
Frost-free period: 25 to 75 days

Map Unit Composition

Jorge and similar soils: 55 percent
Rubble land: 30 percent

Description of Jorge

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear

Properties and qualities

Slope: 30 to 75 percent
Depth to restrictive feature: 47 to 51 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 7e
Hydrologic Soil Group: B

Description of Rubble Land

Setting

Landform: Talus slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Convex
Across-slope shape: Convex

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 8e

Hydrologic Soil Group: D

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe National Forest Area, California

JWF—Jorge-Waca-Tahoma complex, 30 to 50 percent slopes

Map Unit Setting

Landscape: Mountains
Elevation: 6,000 to 8,000 feet
Mean annual precipitation: 35 to 45 inches
Mean annual air temperature: 39 to 45 degrees F
Frost-free period: 25 to 75 days

Map Unit Composition

Jorge and similar soils: 40 percent
Waca and similar soils: 25 percent
Tahoma and similar soils: 20 percent

Description of Jorge

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear

Properties and qualities

Slope: 30 to 50 percent
Depth to restrictive feature: 47 to 51 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 7e
Hydrologic Soil Group: B

Description of Waca

Setting

Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear

Properties and qualities

Slope: 30 to 50 percent
Depth to restrictive feature: 32 to 36 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)

Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 7e
Hydrologic Soil Group: B

Description of Tahoma

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Concave
Across-slope shape: Linear

Properties and qualities

Slope: 30 to 50 percent
Depth to restrictive feature: 41 to 45 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 7e
Hydrologic Soil Group: B

Data Source Information

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe National Forest Area, California

KRE—Kyburz-Rock outcrop-Trojan complex, 2 to 30 percent slopes

Map Unit Setting

Landscape: Mountains
Elevation: 5,500 to 6,400 feet
Mean annual precipitation: 18 to 35 inches
Mean annual air temperature: 39 to 50 degrees F
Frost-free period: 20 to 30 days

Map Unit Composition

Kyburz and similar soils: 55 percent
Rock outcrop: 20 percent
Trojan and similar soils: 15 percent

Description of Kyburz

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear

Properties and qualities

Slope: 2 to 30 percent
Depth to restrictive feature: 34 to 38 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 4e
Hydrologic Soil Group: B

Description of Rock Outcrop

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Convex
Across-slope shape: Convex

Properties and qualities

Slope: 2 to 30 percent
Depth to restrictive feature: 0 to 4 inches to lithic bedrock
Drainage class: Excessively drained

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 8e
Hydrologic Soil Group: D

Description of Trojan

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear

Properties and qualities

Slope: 2 to 30 percent
Depth to restrictive feature: 34 to 38 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6e
Hydrologic Soil Group: B

Data Source Information

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe National Forest Area, California

MEB—Martis-Euer variant complex, 2 to 5 percent slopes

Map Unit Setting

Landscape: Alluvial plain remnants
Elevation: 5,500 to 6,000 feet
Mean annual precipitation: 25 to 35 inches
Mean annual air temperature: 39 to 45 degrees F
Frost-free period: 20 to 40 days

Map Unit Composition

Martis and similar soils: 60 percent
Euer variant and similar soils: 25 percent

Description of Martis

Setting

Landform: Outwash plains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Riser
Down-slope shape: Linear
Across-slope shape: Linear

Properties and qualities

Slope: 2 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6e
Hydrologic Soil Group: B

Description of Euer Variant

Setting

Landform: Outwash plains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Riser
Down-slope shape: Linear
Across-slope shape: Linear

Properties and qualities

Slope: 2 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)

Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 4e
Hydrologic Soil Group: B

Data Source Information

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe National Forest Area, California

PX—Pits, borrow

Map Unit Setting

Landscape: Mountains

Map Unit Composition

Pits, borrow: 100 percent

Description of Pits, Borrow

Setting

Down-slope shape: Linear
Across-slope shape: Linear

Data Source Information

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe National Forest Area, California

UME—Umpa stony sandy loam, 2 to 30 percent slopes

Map Unit Setting

Landscape: Mountains
Elevation: 7,000 to 8,500 feet
Mean annual precipitation: 40 to 45 inches
Mean annual air temperature: 37 to 43 degrees F
Frost-free period: 25 to 75 days

Map Unit Composition

Umpa and similar soils: 85 percent

Description of Umpa

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear

Properties and qualities

Slope: 2 to 30 percent
Depth to restrictive feature: 24 to 28 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6e
Hydrologic Soil Group: B

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe National Forest Area, California

UMF—Umpa stony sandy loam, 30 to 50 percent slopes

Map Unit Setting

Landscape: Mountains
Elevation: 7,000 to 8,500 feet
Mean annual precipitation: 40 to 45 inches
Mean annual air temperature: 37 to 43 degrees F
Frost-free period: 25 to 75 days

Map Unit Composition

Umpa and similar soils: 85 percent

Description of Umpa

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear

Properties and qualities

Slope: 30 to 50 percent
Depth to restrictive feature: 24 to 28 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 7e
Hydrologic Soil Group: B

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Tahoe National Forest Area, California

UOG—Umpa-Rock outcrop complex, 30 to 75 percent slopes

Map Unit Setting

Landscape: Mountains
Elevation: 7,000 to 8,500 feet
Mean annual precipitation: 40 to 45 inches
Mean annual air temperature: 37 to 43 degrees F
Frost-free period: 25 to 75 days

Map Unit Composition

Umpa and similar soils: 65 percent
Rock outcrop: 20 percent

Description of Umpa

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear

Properties and qualities

Slope: 30 to 75 percent
Depth to restrictive feature: 24 to 28 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 7e
Hydrologic Soil Group: B

Description of Rock Outcrop

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Convex
Across-slope shape: Convex

Properties and qualities

Slope: 30 to 75 percent
Depth to restrictive feature: 0 to 4 inches to lithic bedrock
Drainage class: Excessively drained

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 8e
Hydrologic Soil Group: D

Data Source Information

Soil Survey Area: Tahoe Basin Area, California and Nevada
Survey Area Data: Version 8, Feb 14, 2008

Soil Survey Area: Tahoe National Forest Area, California
Survey Area Data: Version 7, Sep 1, 2009

Erosion Hazard (Off-Road, Off-Trail)

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Tahoe National Forest Area, California
Survey Area Version and Date: 7 - 09/01/2009

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
AQB	Aquolls and Borolls, 0 to 5 percent slopes	Not rated	Borolls 45% Aquolls 45%
ARE	Aldi-Kyburz complex, 2 to 30 percent slopes	Moderate	Aldi 55% Slope/erodibility Kyburz 30% Slope/erodibility
EUB	Euer-Martis variant complex, 2 to 5 percent slopes	Slight	Euer 55% Martis variant 35%
EVB	Inville-Martis variant complex, 2 to 5 percent slopes	Slight	Inville 60% Martis variant 25%
EWB	Inville-Riverwash-Aquolls complex, 2 to 5 percent slopes	Slight	Inville 55%
FTE	Fugawee-Tahoma complex, 2 to 30 percent slopes	Moderate	Fugawee 50% Slope/erodibility Tahoma 40% Slope/erodibility
FUE	Kyburz-Trojan complex, 9 to 30 percent slopes	Moderate	Kyburz 60% Slope/erodibility Trojan 25% Slope/erodibility
JSE	Jorge-Cryumbrepts, wet-Tahoma complex, 2 to 30 percent slopes	Moderate	Jorge 55% Slope/erodibility Tahoma 15% Slope/erodibility
JTE	Jorge-Tahoma complex, 2 to 30 percent slopes	Moderate	Jorge 65% Slope/erodibility Tahoma 20% Slope/erodibility
JTF	Jorge very stony sandy loam, 30 to 50 percent slopes	Severe	Jorge 85% Slope/erodibility
JUG	Jorge-Rubble land complex, 30 to 75 percent slopes	Very severe	Jorge 55% Slope/erodibility
JWF	Jorge-Waca-Tahoma complex, 30 to 50 percent slopes	Severe	Jorge 40% Slope/erodibility Waca 25% Slope/erodibility Tahoma 20% Slope/erodibility
KME	Kyburz-Aldi complex, 2 to 30 percent slopes	Moderate	Kyburz 65% Slope/erodibility Aldi 25% Slope/erodibility
MEB	Martis-Euer variant complex, 2 to 5 percent slopes	Slight	Martis 60% Euer variant 25%
PX	Pits, borrow	Not rated	Pits, borrow 100%
UME	Umpa stony sandy loam, 2 to 30 percent slopes	Moderate	Umpa 85% Slope/erodibility
UMF	Umpa stony sandy loam, 30 to 50 percent slopes	Severe	Umpa 85% Slope/erodibility
UNE	Umpa-Cryumbrepts, wet complex, 2 to 30 percent slopes	Moderate	Umpa 70% Slope/erodibility
UOE	Umpa-Rock outcrop complex, 2 to 30 percent slopes	Moderate	Umpa 65% Slope/erodibility Rock outcrop 20% Slope/erodibility Slope/erodibility

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Erosion Hazard (Off-Road, Off-Trail)

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Tahoe National Forest Area, California
Survey Area Version and Date: 7 - 09/01/2009

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
UOG	Umpa-Rock outcrop complex, 30 to 75 percent slopes	Very severe	Umpa 65% Slope/erodibility Rock outcrop 20% Slope/erodibility Slope/erodibility

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Erosion Hazard (Off-Road, Off-Trail)

Rating Options

Attribute Name: Erosion Hazard (Off-Road, Off-Trail)

The ratings in this interpretation indicate the hazard of soil loss from off-road and off-trail areas after disturbance activities that expose the soil surface. The ratings are based on slope and soil erosion factor K. The soil loss is caused by sheet or rill erosion in off-road or off-trail areas where 50 to 75 percent of the surface has been exposed by logging, grazing, mining, or other kinds of disturbance.

The ratings are both verbal and numerical. The hazard is described as "slight," "moderate," "severe," or "very severe." A rating of "slight" indicates that erosion is unlikely under ordinary climatic conditions; "moderate" indicates that some erosion is likely and that erosion-control measures may be needed; "severe" indicates that erosion is very likely and that erosion-control measures, including revegetation of bare areas, are advised; and "very severe" indicates that significant erosion is expected, loss of soil productivity and off-site damage are likely, and erosion-control measures are costly and generally impractical.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the specified aspect of forestland management (1.00) and the point at which the soil feature is not a limitation (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

Aggregation Method: Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value to represent the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. The components in the map unit name represent the major soils within a map unit delineation. Minor components make up the balance of the map unit. Great differences in soil properties can occur between map unit components and within short distances. Minor components may be very different from the major components. Such differences could significantly affect use and management of the map unit. Minor components may or may not be documented in the database. The results of aggregation do not reflect the presence or absence of limitations of the components which are not listed in the database. An on-site investigation is required to identify the location of individual map unit components.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be generated. Aggregation must be done because, on any soil map, map units are delineated but components are not.The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie.

The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

Tie-break Rule: Higher

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

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Erosion Hazard (Off-Road, Off-Trail)

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Tahoe Basin Area, California and Nevada
Survey Area Version and Date: 8 - 02/14/2008

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
7031	Pits and dumps	Not rated	Dumps 45% Pits 45% Arents 5% Xerorthents 5%
7042	Tahoe complex, 0 to 5 percent slopes, gravelly	Slight	Tahoe, gravelly 55% Tahoe, gravelly wet 25% Watah 5% Marla 5% Tahoe, silt loam 5%
7131	Ellispeak-Waca complex, 9 to 30 percent slopes	Moderate	Ellispeak 45% Slope/erodibility Waca 40% Slope/erodibility Windy 4% Slope/erodibility
7151	Jorge very cobbly fine sandy loam, 5 to 15 percent slopes, rubbly	Slight	Jorge, very cobbly fine sandy loam 80% Tahoma 5% Jorge, very cobbly loam 4% Aquic Xerorthents 1%
7152	Jorge very cobbly fine sandy loam, 15 to 30 percent slopes, rubbly	Moderate	Jorge, very cobbly fine sandy loam 80% Slope/erodibility Waca 5% Slope/erodibility Tahoma 5% Slope/erodibility Jorge, very cobbly loam 4% Slope/erodibility Sky 2% Slope/erodibility Ellispeak 2% Slope/erodibility
7153	Jorge very cobbly fine sandy loam, 30 to 50 percent slopes, rubbly	Severe	Jorge, very cobbly fine sandy loam 80% Slope/erodibility Tahoma 5% Slope/erodibility Waca 5% Slope/erodibility Sky 2% Slope/erodibility Ellispeak 2% Slope/erodibility
7155	Jorge very cobbly loam, 15 to 50 percent slopes, extremely stony	Moderate	Jorge, very cobbly loam 75% Slope/erodibility Tahoma 5% Slope/erodibility Waca 3% Slope/erodibility Ellispeak 3% Slope/erodibility
7156	Jorge-Tahoma complex, 15 to 30 percent slopes	Moderate	Jorge, very gravelly sandy loam 45% Slope/erodibility Tahoma 35% Slope/erodibility Waca 10% Slope/erodibility Inville 5% Slope/erodibility Ellispeak 1% Slope/erodibility

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Erosion Hazard (Off-Road, Off-Trail)

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Tahoe Basin Area, California and Nevada
Survey Area Version and Date: 8 - 02/14/2008

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
7157	Jorge-Tahoma complex, 30 to 50 percent slopes	Severe	Jorge, very gravelly sandy loam 55% Slope/erodibility Tahoma 25% Slope/erodibility Waca 10% Slope/erodibility Ellispeak 1% Slope/erodibility
7161	Kingsbeach stony sandy loam, 2 to 15 percent slopes	Slight	Kingsbeach 80% Tahoma 10% Jorge, very gravelly sandy loam 8% Beaches 1%
7181	Paige medial sandy loam, 5 to 15 percent slopes	Slight	Paige 80% Kneeridge, well drained 7% Jorge, very gravelly sandy loam 6% Tahoe, gravelly 5%
7191	Rock outcrop, volcanic	Not rated	Rock outcrop, Volcanic 90% Rubble land, Talus 2%
7221	Tahoma very cobbly sandy loam, 2 to 15 percent slopes, very stony	Slight	Tahoma 80% Inville 4% Aquic Xerorthents 1%
7222	Tahoma-Jorge complex, 2 to 15 percent slopes	Slight	Tahoma 50% Jorge, very gravelly sandy loam 30% Inville 5% Tahoe, gravelly 1%
9011	Oxyaquic Cryorthents-Aquic Xerorthents-Tahoe complex, 0 to 15 percent slopes	Slight	Oxyaquic Cryorthents 30% Aquic Xerorthents 28% Tahoe, gravelly 15% Watah 10% Bidart, mucky silt loam 10% Marla 5%
9122	Watsonlake gravelly sandy loam, 15 to 30 percent slopes, rubbly	Moderate	Watsonlake 80% Slope/erodibility Tahoma 5% Slope/erodibility Waca 5% Slope/erodibility Jorge, very cobbly fine sandy loam 5% Slope/erodibility Sky 2% Slope/erodibility Ellispeak 1% Slope/erodibility
9141	Melody-Rock Outcrop complex, 9 to 30 percent slopes	Moderate	Melody 55% Slope/erodibility Sky 10% Slope/erodibility Meiss 1% Slope/erodibility
9164	Sky-Melody complex, 9 to 30 percent slopes	Moderate	Sky 50% Slope/erodibility Melody 40% Slope/erodibility Meiss 1% Slope/erodibility

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Erosion Hazard (Off-Road, Off-Trail)

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Tahoe Basin Area, California and Nevada
Survey Area Version and Date: 8 - 02/14/2008

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
9165	Sky-Melody complex, 30 to 50 percent slopes	Severe	Sky 50% Slope/erodibility Melody 40% Slope/erodibility Mountrose 4% Slope/erodibility Wardcreek 3% Slope/erodibility

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Erosion Hazard (Off-Road, Off-Trail)

Rating Options

Attribute Name: Erosion Hazard (Off-Road, Off-Trail)

The ratings in this interpretation indicate the hazard of soil loss from off-road and off-trail areas after disturbance activities that expose the soil surface. The ratings are based on slope and soil erosion factor K. The soil loss is caused by sheet or rill erosion in off-road or off-trail areas where 50 to 75 percent of the surface has been exposed by logging, grazing, mining, or other kinds of disturbance.

The ratings are both verbal and numerical. The hazard is described as "slight," "moderate," "severe," or "very severe." A rating of "slight" indicates that erosion is unlikely under ordinary climatic conditions; "moderate" indicates that some erosion is likely and that erosion-control measures may be needed; "severe" indicates that erosion is very likely and that erosion-control measures, including revegetation of bare areas, are advised; and "very severe" indicates that significant erosion is expected, loss of soil productivity and off-site damage are likely, and erosion-control measures are costly and generally impractical.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the specified aspect of forestland management (1.00) and the point at which the soil feature is not a limitation (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

Aggregation Method: Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value to represent the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. The components in the map unit name represent the major soils within a map unit delineation. Minor components make up the balance of the map unit. Great differences in soil properties can occur between map unit components and within short distances. Minor components may be very different from the major components. Such differences could significantly affect use and management of the map unit. Minor components may or may not be documented in the database. The results of aggregation do not reflect the presence or absence of limitations of the components which are not listed in the database. An on-site investigation is required to identify the location of individual map unit components.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be generated. Aggregation must be done because, on any soil map, map units are delineated but components are not.The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie.

The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

Tie-break Rule: Higher

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

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Hydric Rating by Map Unit

Aggregation Method: Absence/Presence
Tie-break Rule: Lower

Tahoe National Forest Area, California
Survey Area Version and Date: 7 - 09/01/2009

Map symbol	Map unit name	Rating
AQB	Aquolls and Borolls, 0 to 5 percent slopes	Partially Hydric
ARE	Aldi-Kyburz complex, 2 to 30 percent slopes	Not Hydric
EUB	Euer-Martis variant complex, 2 to 5 percent slopes	Not Hydric
EVB	Inville-Martis variant complex, 2 to 5 percent slopes	Not Hydric
EWB	Inville-Riverwash-Aquolls complex, 2 to 5 percent slopes	Partially Hydric
FTE	Fugawee-Tahoma complex, 2 to 30 percent slopes	Not Hydric
FUE	Kyburz-Trojan complex, 9 to 30 percent slopes	Not Hydric
JSE	Jorge-Cryumbrepts, wet-Tahoma complex, 2 to 30 percent slopes	Not Hydric
JTE	Jorge-Tahoma complex, 2 to 30 percent slopes	Not Hydric
JTF	Jorge very stony sandy loam, 30 to 50 percent slopes	Not Hydric
JUG	Jorge-Rubble land complex, 30 to 75 percent slopes	Not Hydric
JWF	Jorge-Waca-Tahoma complex, 30 to 50 percent slopes	Not Hydric
KME	Kyburz-Aldi complex, 2 to 30 percent slopes	Not Hydric
MEB	Martis-Euer variant complex, 2 to 5 percent slopes	Not Hydric
PX	Pits, borrow	Not Hydric
UME	Umpa stony sandy loam, 2 to 30 percent slopes	Not Hydric
UMF	Umpa stony sandy loam, 30 to 50 percent slopes	Not Hydric
UNE	Umpa-Cryumbrepts, wet complex, 2 to 30 percent slopes	Not Hydric
UOE	Umpa-Rock outcrop complex, 2 to 30 percent slopes	Not Hydric
UOG	Umpa-Rock outcrop complex, 30 to 75 percent slopes	Not Hydric

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Special Use Permit

Authorization ID: ELD409201
Contact Id: CALPECO
Expiration Date: 12/31/2042
Use Code: 643, 752

FS-2700-4 (10/09)
OMB No. 0596-0082

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
SPECIAL USE PERMIT

Authority: FEDERAL LAND POLICY AND MGMT ACT, AS AMENDED October 21, 1976

California Pacific Electric Co. dba CALPECO/Liberty Energy/Liberty Utilities, of 933 Eloise Ave. South Lake Tahoe, CA 96150 (hereinafter "the holder") is authorized to use or occupy National Forest System lands in the Lake Tahoe Basin Management Unit of the National Forest System, subject to the terms and conditions of this special use permit (the permit).

This permit covers 149.22 acres of power lines and 5.45 acres of roads throughout El Dorado and Placer counties, California ("the permit area"), as shown on the maps attached as Appendices K and L. El Dorado County has 34.73 miles of power lines and .7 miles of roads, Placer County has 2.25 miles of power lines and 3.7 miles of roads.

This permit is issued for the purpose of:

The operation and maintenance of transmission and distribution power lines and access roads to these power lines. California Pacific Electric Co. is also known as Liberty Energy, Liberty Utilities, and CALPECO. Sierra Pacific formerly owned these power lines. This permit also authorizes procedures for five-year and annual reporting, resource protection, road use and maintenance, fire prevention, and erosion control.

The following exhibits are hereby made a part of this permit:

A. Annual Reporting Guidelines
B. Five-Year Operations and Maintenance Guidelines
C. Resource Protection Guidelines
D. Tree/Slash Removal and Pruning Guidelines
E. Road Use and Maintenance Guidelines
F. Fire Prevention Guidelines
G. Power lines under permit
H. Roads used by CalPeco within the LTBMU
    1. National Forest System Roads – no easement
    2. Non-system/decommissioned roads/trails – easement
    3. Non-system/decommissioned roads – no easement
I. Landscaping and Erosion Control Guidelines
J. Environmentally Sensitive Area Management Guidelines
K. Map of permit area
L. Twelve maps of power lines and access roads

A five-year operating plan that includes all required elements shall be submitted to the Forest Supervisor within 30 days of issuance of this authorization.

TERMS AND CONDITIONS

I. GENERAL TERMS

A. AUTHORITY. This permit is issued pursuant to the Federal Land Policy and Management Act and 36 CFR Part 251, Subpart B, as amended, and is subject to their provisions.

B. AUTHORIZED OFFICER. The authorized officer is the Forest Supervisor or a subordinate officer with delegated authority.

C. TERM. This permit shall expire at midnight on 12/31/2042, 30 years from the date of issuance.

D. RENEWAL. This permit is not renewable. Prior to expiration of this permit, the holder may apply for a new permit that would renew the use and occupancy authorized by this permit. Applications for a new permit must be submitted at least 6 months prior to expiration of this permit. Renewal of the use and occupancy authorized by this permit shall be at the sole discretion of the authorized officer. At a minimum, before renewing the use and occupancy authorized by this permit, the authorized officer shall require that (1) the use and occupancy to be authorized by the new permit is consistent with the standards and guidelines in the applicable land management plan; (2) the type of use and occupancy to be authorized by the new permit is the same as the type of use and occupancy authorized by this permit; and (3) the holder is in compliance with all the terms of this permit. The authorized officer may prescribe new terms and conditions when a new permit is issued.

E. AMENDMENT. This permit may be amended in whole or in part by the Forest Service when, at the discretion of the authorized officer, such action is deemed necessary or desirable to incorporate new terms that may be required by law, regulation, directive, the applicable forest land and resource management plan, or projects and activities implementing a land management plan pursuant to 36 CFR Part 215.

F. COMPLIANCE WITH LAWS, REGULATIONS, AND OTHER LEGAL REQUIREMENTS. In exercising the rights and privileges granted by this permit, the holder shall comply with all present and future federal laws and regulations and all present and future state, county, and municipal laws, regulations, and other legal requirements that apply to the permit area, to the extent they do not conflict with federal law, regulation, or policy. The Forest Service assumes no responsibility for enforcing laws, regulations, and other legal requirements that fall under the jurisdiction of other governmental entities.

G. NON-EXCLUSIVE USE. The use or occupancy authorized by this permit is not exclusive. The Forest Service reserves the right of access to the permit area, including a continuing right of physical entry to the permit area for inspection, monitoring, or any other purpose consistent with any right or obligation of the United States under any law or regulation. The Forest Service reserves the right to allow others to use the permit area in any way that is not inconsistent with the holder's rights and privileges under this permit, after consultation with all parties involved. Except for any restrictions that the holder and the authorized officer agree are necessary to protect the installation and operation of authorized temporary improvements, the lands and waters covered by this permit shall remain open to the public for all lawful purposes.

H. ASSIGNABILITY. This permit is not assignable or transferable.

I. TRANSFER OF TITLE TO THE IMPROVEMENTS.

1. Notification of Transfer. The holder shall notify the authorized officer when a transfer of title to all or part of the authorized improvements is contemplated.

2. Transfer of Title. Any transfer of title to the improvements covered by this permit shall result in termination of the permit. The party who acquires title to the improvements must submit an application for a permit. The Forest Service is not obligated to issue a new permit to the party who acquires title to the

improvements. The authorized officer shall determine that the applicant meets requirements under applicable federal regulations.

J. CHANGE IN CONTROL OF THE BUSINESS ENTITY.

1. Notification of Change in Control. The holder shall notify the authorized officer when a change in control of the business entity that holds this permit is contemplated.

a. In the case of a corporation, control is an interest, beneficial or otherwise, of sufficient outstanding voting securities or capital of the business so as to permit the exercise of managerial authority over the actions and operations of the corporation or election of a majority of the board of directors of the corporation.

b. In the case of a partnership, limited partnership, joint venture, or individual entrepreneurship, control is a beneficial ownership of or interest in the entity or its capital so as to permit the exercise of managerial authority over the actions and operations of the entity.

c. In other circumstances, control is any arrangement under which a third party has the ability to exercise management authority over the actions or operations of the business.

2. Effect of Change in Control. Any change in control of the business entity as defined in paragraph 1 of this clause shall result in termination of this permit. The party acquiring control must submit an application for a special use permit. The Forest Service is not obligated to issue a new permit to the party who acquires control. The authorized officer shall determine whether the applicant meets the requirements established by applicable federal regulations.

II. IMPROVEMENTS

A. LIMITATIONS ON USE. Nothing in this permit gives or implies permission to build or maintain any structure or facility or to conduct any activity, unless specifically authorized by this permit. Any use not specifically authorized by this permit must be proposed in accordance with 36 CFR 251.54. Approval of such a proposal through issuance of a new permit or permit amendment is at the sole discretion of the authorized officer.

B. PLANS. All plans for development, layout, construction, reconstruction, or alteration of improvements in the permit area, as well as revisions to those plans must be prepared by a professional engineer, architect, landscape architect, or other qualified professional based on federal employment standards acceptable to the authorized officer. These plans and plan revisions must have written approval from the authorized officer before they are implemented. The authorized officer may require the holder to furnish as-built plans, maps, or surveys upon completion of the work.

B. CONSTRUCTION. Any construction authorized by this permit shall commence by NA and shall be completed by NA.

II. OPERATIONS.

A. PERIOD OF USE. Use or occupancy of the permit area shall be exercised at least 365 days each year.

B. CONDITION OF OPERATIONS. The holder shall maintain the authorized improvements and permit area to standards of repair, orderliness, neatness, sanitation, and safety acceptable to the authorized officer and consistent with other provisions of this permit. Standards are subject to periodic change by the authorized officer when deemed necessary to meet statutory, regulatory, or policy requirements or to protect national forest resources. The holder shall comply with inspection requirements deemed appropriate by the authorized officer.

C. OPERATING PLAN. The holder shall prepare and annually revise by November 15 an operating plan. The operating plan shall be prepared in consultation with the authorized officer or the authorized officer's designated representative and shall cover all operations authorized by this permit. The operating plan shall outline steps the holder will take to protect public health and safety and the environment and shall include sufficient detail and standards to enable the Forest Service to monitor the holder's operations for compliance with the terms and conditions of this permit. The operating plan shall be submitted by the holder and approved by the authorized officer or the authorized officer's designated representative prior to commencement of operations and shall be attached to this permit as an appendix. The authorized officer may require an annual meeting with the holder to discuss the terms and conditions of the permit or operating plan, annual use reports, or other concerns either party may have.

D. **INSPECTION BY THE FOREST SERVICE**. The Forest Service shall monitor the holder's operations and reserves the right to inspect the permit area and transmission facilities at any time for compliance with the terms of this permit. The holder's obligations under this permit are not contingent upon any duty of the Forest Service to inspect the permit area or transmission facilities. A failure by the Forest Service or other governmental officials to inspect is not a justification for noncompliance with any of the terms and conditions of this permit.

IV. RIGHTS AND LIABILITIES

A. LEGAL EFFECT OF THE PERMIT. This permit, which is revocable and terminable, is not a contract or a lease, but rather a federal license. The benefits and requirements conferred by this authorization are reviewable solely under the procedures set forth in 36 CFR Part 251, Subpart C, and 5 U.S.C. 704. This permit does not constitute a contract for purposes of the Contract Disputes Act, 41 U.S.C. 601. The permit is not real property, does not convey any interest in real property, and may not be used as collateral for a loan.

B. VALID OUTSTANDING RIGHTS. This permit is subject to all valid outstanding rights. Valid outstanding rights include those derived under mining and mineral leasing laws of the United States. The United States is not liable to the holder for the exercise of any such right.

C. ABSENCE OF THIRD-PARTY BENEFICIARY RIGHTS. The parties to this permit do not intend to confer any rights on any third party as a beneficiary under this permit.

D. SERVICES NOT PROVIDED. This permit does not provide for the furnishing of road or trail maintenance, water, fire protection, search and rescue, or any other such service by a government agency, utility, association, or individual.

E. RISK OF LOSS. The holder assumes all risk of loss associated with use or occupancy of the permit area, including but not limited to theft, vandalism, fire and any fire-fighting activities (including prescribed burns), avalanches, rising waters, winds, falling limbs or trees, and other forces of nature. If authorized temporary improvements in the permit area are destroyed or substantially damaged, the authorized officer shall conduct an analysis to determine whether the improvements can be safely occupied in the future and whether rebuilding should be allowed. If rebuilding is not allowed, the permit shall terminate.

F. DAMAGE TO UNITED STATES PROPERTY. The holder has an affirmative duty to protect from damage the land, property, and other interests of the United States. Damage includes but is not limited to fire suppression costs, damage to government-owned improvements covered by this permit, and all costs and damages associated with or resulting from the release or threatened release of a hazardous material occurring during or as a result of activities of the holder or the holder's heirs, assigns, agents, employees, contractors, or lessees on, or related to, the lands, property, and other interests covered by this permit. For purposes of clause IV.F and section V, "hazardous material" shall mean (a) any hazardous substance under section 101(14) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 U.S.C. § 9601(14); (b) any pollutant or contaminant under section 101(33) of CERCLA, 42 U.S.C. § 9601(33); (c) any petroleum product or its derivative, including fuel oil, and waste oils; and (d) any hazardous substance, extremely hazardous substance, toxic substance, hazardous waste, ignitable,

reactive or corrosive materials, pollutant, contaminant, element, compound, mixture, solution or substance that may pose a present or potential hazard to human health or the environment under any applicable environmental laws.

1. The holder shall avoid damaging or contaminating the environment, including but not limited to the soil, vegetation (such as trees, shrubs, and grass), surface water, and groundwater, during the holder's use or occupancy of the permit area. If the environment or any government property covered by this permit becomes damaged during the holder's use or occupancy of the permit area, the holder shall immediately repair the damage or replace the damaged items to the satisfaction of the authorized officer and at no expense to the United States.

2. The holder shall be liable for all injury, loss, or damage, including fire suppression, prevention and control of the spread of invasive species, or other costs in connection with rehabilitation or restoration of natural resources associated with the use or occupancy authorized by this permit. Compensation shall include but not be limited to the value of resources damaged or destroyed, the costs of restoration, cleanup, or other mitigation, fire suppression or other types of abatement costs, and all administrative, legal (including attorney's fees), and other costs. Such costs may be deducted from a performance bond required under clause IV.I.

3. The holder shall be liable for damage caused by use of the holder or the holder's heirs, assigns, agents, employees, contractors, or lessees to all roads and trails of the United States to the same extent as provided under clause IV.F.1, except that liability shall not include reasonable and ordinary wear and tear

G. HEALTH, SAFETY, AND ENVIRONMENTAL PROTECTION. The holder shall promptly abate as completely as possible and in compliance with all applicable laws and regulations any activity or condition arising out of or relating to the authorized use or occupancy that causes or threatens to cause a hazard to public health or the safety of the holder's employees or agents or harm to the environment (including areas of vegetation or timber, fish or other wildlife populations, their habitats, or any other natural resources). The holder shall prevent impacts to the environment and cultural resources by implementing actions identified in the operating plan to prevent establishment and spread of invasive species. The holder shall immediately notify the authorized officer of all serious accidents that occur in connection with such activities. The responsibility to protect the health and safety of all persons affected by the use or occupancy authorized by this permit is solely that of the holder. The Forest Service has no duty under the terms of this permit to inspect the permit area or operations and activities of the holder for hazardous conditions or compliance with health and safety standards.

H. INDEMNIFICATION OF THE UNITED STATES. The holder shall indemnify, defend, and hold harmless the United States for any costs, damages, claims, liabilities, and judgments arising from past, present, and future acts or omissions of the holder in connection with the use or occupancy authorized by this permit. This indemnification provision includes but is not limited to acts and omissions of the holder or the holder's heirs, assigns, agents, employees, contractors, or lessees in connection with the use or occupancy authorized by this permit which result in (1) violations of any laws and regulations which are now or which may in the future become applicable, and including but not limited to those environmental laws listed in clause V.A of this permit; (2) judgments, claims, demands, penalties, or fees assessed against the United States; (3) costs, expenses, and damages incurred by the United States; or (4) the release or threatened release of any solid waste, hazardous waste, hazardous materials, pollutant, contaminant, oil in any form, or petroleum product into the environment. The authorized officer may prescribe terms that allow the holder to replace, repair, restore, or otherwise undertake necessary curative actions to mitigate damages in addition to or as an alternative to monetary indemnification.

I. BONDING. The authorized officer may require the holder to furnish a surety bond or other security for any of the obligations imposed by the terms and conditions of this permit or any applicable law, regulation, or order.

J. **STRICT LIABILITY**. The holder shall be strictly liable (liable without proof of negligence) to the United States for up to $1,000,000 per occurrence for any injury, loss, or damage arising in tort under this permit. Liability in tort for injury, loss, or damage to the United States exceeding the prescribed amount of strict liability in tort shall be determined under the law of negligence.

K. **INSURANCE**. The holder shall furnish proof of insurance, such as a certificate of insurance, to the authorized officer prior to issuance of this permit and each year thereafter that this permit is in effect. The Forest Service reserves the right to review and approve the insurance policy prior to issuance. The holder shall send an authenticated copy of any insurance policy obtained pursuant to this clause to the authorized officer immediately upon issuance of the policy. Any insurance policies obtained by the holder pursuant to this clause shall name the United States as an additional insured, and the additional insured provision shall provide for insurance coverage for the United States as required under this clause. Such policies also shall specify that the insurance company shall give 30 days prior written notice to the authorized officer of cancellation of or any modification to the policies. The certificate of insurance, the authenticated copy of the insurance policy, and written notice of cancellation or modification of insurance policies should be sent to the Lake Tahoe Basin Management Unit, Lands Department. Minimum amounts of coverage and other insurance requirements are subject to change at the sole discretion of the authorized officer on the anniversary date of this permit.

1. The holder shall have in force liability insurance covering losses, including those arising from strict liability, associated with the use or occupancy authorized by this permit arising from personal injury or death and third-party property damage in the minimum amount of $1,000,000 as a combined single limit per occurrence.

2. Depending on the holder's operations, the Forest Service may require the holder to demonstrate the availability of funds to address any release or threatened release of hazardous materials that may occur in connection with the holder's use or occupancy. Any requirements imposed would be established on a case-by-case basis by the authorized officer based on the degree of environmental risk from the holder's operations. The storage and use of normal maintenance supplies in nominal amounts generally would not trigger financial assurance requirements.

V. RESOURCE PROTECTION

A. COMPLIANCE WITH ENVIRONMENTAL LAWS. The holder shall in connection with the use or occupancy authorized by this permit comply with all applicable federal, state, and local environmental laws and regulations, including but not limited to those established pursuant to the Resource Conservation and Recovery Act, as amended, 42 U.S.C. 6901 et seq., the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq., the Oil Pollution Act, as amended, 33 U.S.C. 2701 et seq., the Clean Air Act, as amended, 42 U.S.C. 7401 et seq., CERCLA, as amended, 42 U.S.C. 9601 et seq., the Toxic Substances Control Act, as amended, 15 U.S.C. 2601 et seq., the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, 7 U.S.C. 136 et seq., and the Safe Drinking Water Act, as amended, 42 U.S.C. 300f et seq.

B. VANDALISM. The holder shall take reasonable measures to prevent and discourage vandalism and disorderly conduct and when necessary shall contact the appropriate law enforcement officer.

C. PESTICIDE USE. Pesticides may not be used outside of buildings to control undesirable woody and herbaceous vegetation (including aquatic plants), insects, rodents, fish, and other pests and weeds without prior written approval from the authorized officer. A request for approval of planned uses of pesticides shall be submitted annually by the holder on the due date established by the authorized officer. The report shall cover a 12-month period of planned use beginning 3 months after the reporting date. Information essential for review shall be provided in the form specified. Exceptions to this schedule may be allowed, subject to emergency request and approval, only when unexpected outbreaks of pests or weeds require control measures that were not anticipated at the time an annual report was submitted. Only those materials registered by the U.S. Environmental Protection Agency for the specific purpose planned shall be considered for use on National Forest System lands. Label instructions and all

applicable laws and regulations shall be strictly followed in the application of pesticides and disposal of excess materials and containers.

D. ARCHAEOLOGICAL-PALEONTOLOGICAL DISCOVERIES. The holder shall immediately notify the authorized officer of all antiquities or other objects of historic or scientific interest, including but not limited to historic or prehistoric ruins, fossils, or artifacts discovered in connection with the use and occupancy authorized by this permit. The holder shall leave these discoveries intact and in place until directed otherwise by the authorized officer. Protective and mitigative measures specified by the authorized officer shall be the responsibility of the holder.

E. NATIVE AMERICAN GRAVES PROTECTION AND REPATRIATION. In accordance with 25 U.S.C. 3002(d) and 43 CFR 10.4, if the holder inadvertently discovers human remains, funerary objects, sacred objects, or objects of cultural patrimony on National Forest System lands, the holder shall immediately cease work in the area of the discovery and shall make a reasonable effort to protect and secure the items. The holder shall immediately notify the authorized officer by telephone of the discovery and shall follow up with written confirmation of the discovery. The activity that resulted in the inadvertent discovery may not resume until 30 days after the authorized officer certifies receipt of the written confirmation, if resumption of the activity is otherwise lawful, or at any time if a binding written agreement has been executed between the Forest Service and the affiliated Indian tribes that adopts a recovery plan for the human remains and objects.

F. PROTECTION OF HABITAT OF THREATENED, ENDANGERED, AND SENSITIVE SPECIES. The location of sites within the permit area needing special measures for protection of plants or animals listed as threatened or endangered under the Endangered Species Act (ESA) of 1973, 16 U.S.C. 1531 et seq., as amended, or identified as sensitive or otherwise requiring special protection by the Regional Forester under Forest Service Manual (FSM) 2670, pursuant to consultation conducted under section 7 of the ESA, may be shown on the ground or on a separate map. The map shall be attached to this permit as an appendix. The holder shall take any protective and mitigative measures specified by the authorized officer. If protective and mitigative measures prove inadequate, if other sites within the permit area containing threatened, endangered, or sensitive species or species otherwise requiring special protection are discovered, or if new species are listed as threatened or endangered under the ESA or identified as sensitive or otherwise requiring special protection by the Regional Forester under the FSM, the authorized officer may specify additional protective and mitigative measures. Discovery of these sites by the holder or the Forest Service shall be promptly reported to the other party.

G. CONSENT TO STORE HAZARDOUS MATERIALS. The holder shall not store any hazardous materials at the site without prior written approval from the authorized officer. This approval shall not be unreasonably withheld. If the authorized officer provides approval, this permit shall include, or in the case of approval provided after this permit is issued, shall be amended to include specific terms addressing the storage of hazardous materials, including the specific type of materials to be stored, the volume, the type of storage, and a spill plan. Such terms shall be proposed by the holder and are subject to approval by the authorized officer.

1. If the holder receives consent to store hazardous material, the holder shall identify to the Forest Service any hazardous material to be stored at the site. Such identification information shall be consistent with column (1) of the table of hazardous materials and special provisions enumerated at 49 CFR 172.101 whenever the hazardous material appears in that table. For hazard communication purposes, the holder shall maintain Material Safety Data Sheets for any stored hazardous chemicals, consistent with 29 CFR 1910.1200(c) and (g). In addition, all hazardous materials stored by the holder shall be used, labeled, stored, transported, and disposed of in accordance with all applicable federal, state, and local laws and regulations.

2. The holder shall not release any hazardous material as defined in clause IV.F. onto land or into rivers, streams, impoundments, or natural or man-made channels leading to them. All prudent and safe attempts must be made to contain any release of these materials. The authorized officer in charge may specify

specific conditions that must be met, including conditions more stringent than federal, state, and local regulations, to prevent releases and protect natural resources.

H. CLEANUP AND REMEDIATION

1. The holder shall immediately notify all appropriate response authorities, including the National Response Center and the authorized officer or the authorized officer's designated representative, of any oil discharge or of the release of a hazardous material in the permit area in an amount greater than or equal to its reportable quantity, in accordance with 33 CFR Part 153, Subpart B, and 40 CFR Part 302. For the purposes of this requirement, "oil" is as defined by section 311(a)(1) of the Clean Water Act, 33 U.S.C. 1321(a)(1). The holder shall immediately notify the authorized officer or the authorized officer's designated representative of any release or threatened release of any hazardous material in or near the permit area which may be harmful to public health or welfare or which may adversely affect natural resources on federal lands.

2. Except with respect to any federally permitted release as that term is defined under Section 101(10) of CERCLA, 42 U.S.C. 9601(10), the holder shall clean up or otherwise remediate any release, threat of release, or discharge of hazardous materials that occurs either in the permit area or in connection with the holder's activities in the permit area, regardless of whether those activities are authorized under this permit. The holder shall perform cleanup or remediation immediately upon discovery of the release, threat of release, or discharge of hazardous materials. The holder shall perform the cleanup or remediation to the satisfaction of the authorized officer and at no expense to the United States. Upon revocation or termination of this permit, the holder shall deliver the site to the Forest Service free and clear of contamination.

I. CERTIFICATION UPON REVOCATION OR TERMINATION. If the holder uses or stores hazardous materials at the site, upon revocation or termination of this permit the holder shall provide the Forest Service with a report certified by a professional or professionals acceptable to the Forest Service that the permit area is uncontaminated by the presence of hazardous materials and that there has not been a release or discharge of hazardous materials upon the permit area, into surface water at or near the permit area, or into groundwater below the permit area during the term of the permit. This certification requirement may be waived by the authorized officer when the Forest Service determines that the risks posed by the hazardous material are minimal. If a release or discharge has occurred, the professional or professionals shall document and certify that the release or discharge has been fully remediated and that the permit area is in compliance with all federal, state, and local laws and regulations.

VI. LAND USE FEE AND ACCOUNTING ISSUES

A. LAND USE FEES. The holder shall pay an initial annual land use fee of **$12,281.05** for the period from October 1, 2012, to December 31, 2012. The annual land use fee shall be adjusted annually using the linear right-of-way fee schedule.

B. MODIFICATION OF THE LAND USE FEE. The land use fee may be revised whenever necessary to reflect the market value of the authorized use or occupancy or when the fee system used to calculate the land use fee is modified or replaced.

C. FEE PAYMENT ISSUES.

1. Crediting of Payments. Payments shall be credited on the date received by the deposit facility, except that if a payment is received on a non-workday, the payment shall not be credited until the next workday.

2. Disputed Fees. Fees are due and payable by the due date. Disputed fees must be paid in full. Adjustments will be made if dictated by an administrative appeal decision, a court decision, or settlement terms.

3. Late Payments

(a) Interest. Pursuant to 31 U.S.C. 3717 et seq., interest shall be charged on any fee amount not paid within 30 days from the date it became due. The rate of interest assessed shall be the higher of the Prompt Payment Act rate or the rate of the current value of funds to the Treasury (i.e., the Treasury tax and loan account rate), as prescribed and published annually or quarterly by the Secretary of the Treasury in the Federal Register and the Treasury Fiscal Requirements Manual Bulletins. Interest on the principal shall accrue from the date the fee amount is due.

(b) Administrative Costs. If the account becomes delinquent, administrative costs to cover processing and handling the delinquency shall be assessed.

(c) Penalties. A penalty of 6% per annum shall be assessed on the total amount that is more than 90 days delinquent and shall accrue from the same date on which interest charges begin to accrue.

(d) Termination for Nonpayment. This permit shall terminate without the necessity of prior notice and opportunity to comply when any permit fee payment is 90 calendar days from the due date in arrears. The holder shall remain responsible for the delinquent fees.

4. Administrative Offset and Credit Reporting. Delinquent fees and other charges associated with the permit shall be subject to all rights and remedies afforded the United States pursuant to 31 U.S.C. 3711 et seq. and common law. Delinquencies are subject to any or all of the following:

(a) Administrative offset of payments due the holder from the Forest Service.

(b) If in excess of 60 days, referral to the Department of the Treasury for appropriate collection action as provided by 31 U.S.C. 3711(g)(1).

(c) Offset by the Secretary of the Treasury of any amount due the holder, as provided by 31 U.S.C. 3720 et seq.

(d) Disclosure to consumer or commercial credit reporting agencies.

VII. REVOCATION, SUSPENSION, AND TERMINATION

A. REVOCATION AND SUSPENSION. The authorized officer may revoke or suspend this permit in whole or in part:

1. For noncompliance with federal, state, or local law.

2. For noncompliance with the terms of this permit.

3. For abandonment or other failure of the holder to exercise the privileges granted.

4. With the consent of the holder.

5. For specific and compelling reasons in the public interest.

Prior to revocation or suspension, other than immediate suspension under clause VI.B, the authorized officer shall give the holder written notice of the grounds for revocation or suspension. In the case of revocation or suspension based on clause VII.A.1, 2, or 3, the authorized officer shall give the holder a reasonable time, typically not to exceed 90 days, to cure any noncompliance.

B. IMMEDIATE SUSPENSION. The authorized officer may immediately suspend this permit in whole or in part when necessary to protect public health or safety or the environment. The suspension decision shall be in writing. The holder may request an on-site review with the authorized officer's supervisor of the

adverse conditions prompting the suspension. The authorized officer's supervisor shall grant this request within 48 hours. Following the on-site review, the authorized officer's supervisor shall promptly affirm, modify, or cancel the suspension.

C. APPEALS AND REMEDIES. Written decisions by the authorized officer relating to administration of this permit are subject to administrative appeal pursuant to 36 CFR Part 251, Subpart C, as amended. Revocation or suspension of this permit shall not give rise to any claim for damages by the holder against the Forest Service.

D. TERMINATION. This permit shall terminate when by its terms a fixed or agreed upon condition, event, or time occurs without any action by the authorized officer. Examples include but are not limited to expiration of the permit by its terms on a specified date and termination upon change of control of the business entity. Termination of this permit shall not require notice, a decision document, or any environmental analysis or other documentation. Termination of this permit is not subject to administrative appeal and shall not give rise to any claim for damages by the holder against the Forest Service.

E. RIGHTS AND RESPONSIBILITIES UPON REVOCATION OR TERMINATION WITHOUT RENEWAL. Upon revocation or termination of this permit without renewal of the authorized use, the holder shall remove all structures and improvements, except those owned by the United States, within a reasonable period prescribed by the authorized officer and shall restore the site to the satisfaction of the authorized officer. If the holder fails to remove all structures and improvements within the prescribed period, they shall become the property of the United States and may be sold, destroyed, or otherwise disposed of without any liability to the United States. However, the holder shall remain liable for all costs associated with their removal, including costs of sale and impoundment, cleanup, and restoration of the site.

VIII. MISCELLANEOUS PROVISIONS

A. MEMBERS OF CONGRESS. No member of or delegate to Congress or resident commissioner shall benefit from this permit either directly or indirectly, except to the extent the authorized use provides a general benefit to a corporation.

B. CURRENT ADDRESSES. The holder and the Forest Service shall keep each other informed of current mailing addresses, including those necessary for billing and payment of land use fees.

C. SUPERIOR CLAUSES. If there is a conflict between any of the preceding printed clauses and any of the following clauses, the preceding printed clauses shall control.

D. IMPROVEMENT RELOCATION. This authorization is granted with the express understanding that should future location of United States Government-owned improvements or road rights-of-way require the relocation of the holder's improvements, such relocation will be done by, and at the expense of, the holder within a reasonable time as specified by the authorized officer.

E. POWERLINE CHANGE APPLICATION. The holder agrees that no substantial change or alteration shall be made in the design, location, construction, voltage, or capacity of this line until application for such change shall have been submitted to and approved by the authorized officer.

F. RIGHT-OF-WAY CLEARING, POWERLINE. The holder shall clear designated parts of the powerline right-of-way and keep them clear as required by the Forest Service; shall trim all branches of trees in contact with or near the line; shall remove all dead snags and all trees which are leaning toward the line on or adjacent to the right-of-way; and shall observe such other fire precautions as may be required; but all waste material shall be burned or otherwise disposed of to the satisfaction of the Forest Service. The clearing width shall be restricted to that necessary for safe transmission, unless the specific permission of the Forest Service for a greater clearing width is obtained.

G. NOXIOUS WEEDS. The permit holder shall prepare, in cooperation with the Forest Service, a noxious weed plan for surveying, preventing, reporting, controlling and monitoring noxious weed populations on the authorized areas and within the holder's area of responsibility. These measures may include, where appropriate, equipment inspection for soil, seeds, and vegetative matter, equipment cleaning, and use of weed-free materials (soil, gravel, straw, mulch) and seed mixes. A current list of noxious weeds of concern is available at the Forest Supervisor's Office.

H. REMOVAL AND PLANTING OF VEGETATION AND OTHER RESOURCES. This permit does not authorize the cutting of timber or other vegetation. Trees or shrubbery may be removed or destroyed only after the authorized officer or the authorized officer's designated representative has approved in writing and marked or otherwise identified what may be removed or destroyed. Timber cut or destroyed shall be paid for at current stumpage rates for similar timber in the Lake Tahoe Basin Management Unit. The Forest Service reserves the right to dispose of the merchantable timber to those other than the holder at no stumpage cost to the holder. Unmerchantable material shall be disposed of as directed by the authorized officer. Trees, shrubs, and other plants may be planted within the permit area with prior written approval of the authorized officer.

I. TIMBER PAYMENT. All National Forest timber cut or destroyed in the construction of the permitted improvements shall be paid for at current stumpage rates for similar timber in the National Forest. Young-growth timber below merchantable size will be paid for at current damage-appraisal value; and all slash and debris resulting from the cutting or destruction of such timber shall be disposed of as necessary or as the Forest Service may direct.

J. GROUND SURFACE PROTECTION AND RESTORATION. The holder shall prevent and control soil erosion and gullying on National Forest System lands in and adjacent to the permit area resulting from construction, operation, maintenance, and termination of the authorized use. The holder shall construct authorized improvements so as to avoid accumulation of excessive amounts of water in the permit area and encroachment on streams. The holder shall revegetate or otherwise stabilize (for example, by constructing a retaining wall) all ground where the soil has been exposed as a result of the holder's construction, maintenance, operation, or termination of the authorized use.

K. SURVEYS, LAND CORNERS. The holder shall protect, in place, all public land survey monuments, private property corners, and Forest boundary markers. In the event that any such land markers or monuments are destroyed in the exercise of the privileges permitted by this authorization, depending on the type of monument destroyed, the holder shall see that they are reestablished or referenced in accordance with (1) the procedures outlined in the "Manual of Instructions for the Survey of the Public Land of the United States," (2) the specifications of the county surveyor, or (3) the specifications of the Forest Service.

Further, the holder shall cause such official survey records as are affected to be amended as provided by law. Nothing in this clause shall relieve the holder's liability for the willful destruction or modification of any Government survey marker as provided at 18 U.S.C. 1858.

This permit is accepted subject to the conditions set out above.

HOLDER: California Pacific Electric Co.

By: Michael R Smart
Michael Smart
CalPECO President

Date: October 2, 2012

U.S. DEPARTMENT OF AGRICULTURE

By: for
NANCY J. GIBSON
Forest Supervisor

Date: 11/9/12

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond, to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0596-0082. The time required to complete this information collection is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and, where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, 1400 Independence Avenue, SW, Washington, DC 20250-9410 or call toll free (866) 632-9992 (voice). TDD users can contact USDA through local relay or the Federal relay at (800) 877-8339 (TDD) or (866) 377-8642 (relay voice). USDA is an equal opportunity provider and employer.

The Privacy Act of 1974 (5 U.S.C. 552a) and the Freedom of Information Act (5 U.S.C. 552) govern the confidentiality to be provided for information received by the Forest Service.

Authorization ID: ELD409201
Use Code: 643, 752

CALIFORNIA PACIFIC ELECTRIC COMPANY (CALPECO)
MASTER SPECIAL USE PERMIT EXHIBITS

The following exhibits are attached to and made a part of the special use permit. A violation of any component of these exhibits would be considered a violation of the special use permit.

LIST OF EXHIBITS

A. Five-Year Operations and Maintenance Plan Guidelines 2
B. Annual Reporting Guidelines 3
C. Emergency Operations Guidelines 5
D. Resource Protection Guidelines 6
- Vegetation /Landscaping
- Erosion Control
- Soils
- Hazardous Materials
- Invasive Plants
- Plants
- Wildlife/Aquatics
- Wetlands
- Cultural Resources

E. Tree/Slash Removal and Pruning Guidelines 13
F. Road Use and Maintenance Guidelines 15
G. Fire Prevention Guidelines 18
H. Power lines under permit 20
I. Roads used by CALPECO within the LTBMU 21
1. National Forest System Roads – no easement
2. Non-system/decommissioned roads/trails – easement
3. Non-system/decommissioned roads – no easement

J. Map of permit area 24
K. Detailed maps of power lines, roads, and easements ..... Attached

Effective management of utility infrastructure benefits both the Forest Service (fire prevention and resource protection) and CALPECO (limit service disruptions).

The Forest Service, as well as CalFire, the Bureau of Land Management, and other wildland protection agencies may initiate criminal actions to secure compliance with laws and ordinances. These agencies also may process civil actions for collection of fire suppression costs and damage to their resources. Protection agencies will not take indiscriminate actions. However, when violations are present and can be supported by facts, a citation or criminal complaint may be issued. (CalFire Power Line Fire Prevention Field Guide, 2008)

CALPECO
MASTER SPECIAL USE PERMIT
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EXHIBIT A
FIVE-YEAR OPERATIONS AND MAINTENANCE PLAN GUIDELINES

CALPECO will prepare and submit to the Forest Service an operations and maintenance plan every five years. This plan must be approved by the Forest Service. The first plan under these guidelines is due no later than October 15, 2012. Subsequent plans are due every five years no later than November 15. The Forest Service will conduct a timely review of the proposed plan, which will include review of the proposed projects for compliance with NEPA. LTBMU staff review time is subject to cost recovery.

This plan will, at a minimum, include the following components:

1. Overall activities for operations and maintenance
2. Proposed construction such as relocation, reconstruction, or new construction of power lines
3. Schedule of proposed tree removal and pruning projects, listed by year and including circuit and estimated miles
4. Standards for tree removal and pruning
5. Standards for pole replacement
6. Hazardous spill prevention, control, and notification
7. Hazardous materials handling
8. Emergency protocols: definition of emergency, incident notification
9. Fire prevention plan (consistent with Exhibit G of this document)
10. Noxious weed prevention plan
11. Sensitive plant species protection
12. Wildlife/aquatics protection
13. Cultural resources
14. Procedures for notifying the Forest Service of archaeological, wildlife and plant discoveries
15. Operations within stream environment zones
16. Work in recreation areas
    a. Advance notice of projects
    b. Public safety
    c. Avoid disrupting recreation activities
17. Contact information
18. Use of helicopters (safety plan to be submitted with project plan)

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EXHIBIT B
ANNUAL REPORTING GUIDELINES
Vegetation Management Plan/Work Requests
Line/Pole Replacement Projects
Other Projects (e.g. training)

These guidelines address annual reporting activities intended to minimize the impact of CALPECO regulated electric utility operations on public safety, recreation, and National Forest System lands and resources, while providing information regarding activities required for and reasonably incidental to the use, operation, installation and maintenance of the power lines. (These guidelines do not pertain to emergency operations, which are outlined in Exhibit C.)

The Forest Service will not prevent CALPECO from mitigating hazards to power lines; however, guidelines are established regarding how the mitigation is achieved (removal of whole tree, partial tree, pruning, etc.). In turn, CALPECO must demonstrate the trees in question are a hazard to the line. If there is disagreement regarding the mitigation of particular trees, CALPECO must provide support for their preferred mitigation.

Hazard trees are defined as trees that have the potential to strike electrical infrastructure.

Trees are evaluated for failure potential according to the USFS R-6 Field Guide for Danger Tree Identification and Response, and are identified as low (low probability of failing within 10 years), likely (high probability of failing within 3-5 years) or imminent (high probability of failing within 1 year). (Table 2 – General guidelines for danger tree indicators and Table 8 – Indicators for NE Oregon and SE Washington of the R6-Danger Tree Field Guide will be used in evaluating trees.)

Coordination: CALPECO and the Forest Service shall each designate a coordinator to review proposed work on existing power lines and to agree on specific details of each work project. The coordinators will also monitor and review completed work projects to ensure that management objectives of both parties are being met. LTBMU staff review time is subject to cost recovery.

CALPECO will provide the Forest Service with an annual plan of work as set forth below, outlining work areas and work to be done, at least six months in advance of the commencement of the work. In addition, CALPECO will provide detailed work requests for each circuit.

CALPECO will submit a report by December 31 each year showing the work that was completed that year, and the work that was planned and approved but deferred to a future year. This information can be submitted with the annual plan.

Annual Plan: An annual plan is due no later than November 15 for the following field season's work, unless an extension has been issued. This plan must include vegetation management projects, line replacement projects and other activities such as group training that are scheduled for the following year. If available, projects that will take place in subsequent years may also be submitted and will be reviewed by the Forest Service.

If, as described in the Resource Protection section of this document, CALPECO will be preparing the biological and cultural surveys/reports for any projects, these reports should accompany the annual plan.

In response to receipt of the annual plan and reports (if applicable), the Forest Service will conduct a NEPA review of the projects and will submit a timely response to CALPECO. This response can only be prepared if complete information is received.

The plan must include the following information:

a. a description of CALPECO's activities for operations and maintenance for the next field season
b. work areas and work planned
c. maps of work areas
d. circuit or geographical location (as specific as possible) where work is to be done.

Work Requests for Vegetation Management, Pole and Line Replacement: Work requests for projects should be submitted as soon as possible for the upcoming field season's work, and must include the following information, unless excluded by the Forest Service:

a. Description of project, including preferred timeframe.
b. Height, diameter, species, APN, and exact location of each affected tree or location of poles to be replaced, by GPS coordinates (include only those trees or poles on National Forest System lands).
c. GIS layers (shape files) showing exact location of project, each tree affected and/or each pole to be replaced, and roads or access routes to be used.
d. The reason each tree is to be pruned or removed.
e. The method of disposal of trees and slash.
f. Equipment to be used.
g. Staging locations, if appropriate.
h. Specialist reports, if not already submitted.
i. Parameters for the use of helicopters, when appropriate, including air to ground frequencies to be used.

Trees identified as having "imminent" potential to fail (either vegetation that has failed or is in the process of failure that will strike and/or come into direct contact with the electrical equipment) AND have a priority of "immediate" (meaning they have a probability of failing within the next month) should be submitted to the Forest Service for consideration as an expedited operation.

All other trees should be submitted with the annual vegetation management plan.

CALPECO will obtain necessary permits from local agencies for projects and provide a copy of the permit to the Forest Service prior to implementation of the project.

It is anticipated that the work for each year's projects will proceed as follows:

Spring-Summer	Specialists (contractors or FS) conduct surveys (if needed) and prepare reports
November	Annual Plan submitted to FS with all specialist reports
By March	FS reviews plan and reports, provides approval or request for additional information
March-May	CALPECO marks trees after projects are approved, provides tree removal data (including height, diameter, and species), disposal and slash plans to FS once completed for each line segment
April-June	FS reviews marking, approves project, prepares permit(s), develops slash and removal requirements (deck, lop scatter, pile, remove). Issues permit/gives OK to proceed with work.
Summer	Implement project

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EXHIBIT C
EMERGENCY OPERATIONS GUIDELINES

Emergency operations, as defined below, may take place at any time. Emergency operations are generally excluded from requirements for planned work, but CALPECO will comply with the invasive plants plan, landscaping, and erosion control guidelines during emergency work, and will avoid causing damage to Forest Service resources to the extent possible, will repair any damage as soon as is practicable and conduct clean up actions as soon as is practicable after the emergency is over.

Notification of emergency operations will be provided to the Forest Service Lands Department within 24 hours of the emergency. The Forest Service will inspect the emergency site to assist with mitigation activities, as needed.

Emergency Operations are defined as follows:

- Electrical outage (loss of service) to electrical customers resulting from natural or man-made causes resulting in:
  - Distribution or transmission conductor failure
  - Distribution or transmission pole failure
  - Underground equipment failure
  - Transformer or transformer switch failure
- Telecommunications failures resulting in the loss of data collection from smart meter installations.
- Radio communication failures resulting in loss of communications to field operations personnel.
- Hazardous materials releases associated with electrical equipment (i.e. transformers) requiring immediate containment and mitigation.
- Broken or damaged structures and equipment that could result in electrical outage, telecommunications failure, radio communication failure, or hazardous materials releases.
- Vegetation that has failed or is in the process of failure that will strike and/or come into direct contact with the electrical equipment within the next month.
- Vegetation in direct contact or that has the ability to make direct contact in wind or with snow loading with electrical equipment or conductors resulting in electrical faults, arcing, or smoldering vegetation.

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EXHIBIT D
RESOURCE PROTECTION GUIDELINES

These guidelines specify the various measures to be taken by CALPECO to protect and restore National Forest natural resources and prevent erosion damage during installation and maintenance of power lines exclusive of Emergency Operations as defined in Exhibit C.

Vegetation/Landscaping

1. Clearing shall be performed in a manner that maximizes preservation of natural beauty, conservation of natural resources, and prevents marring and scarring of the landscape or silting of streams.
2. Clearing of natural vegetation shall be limited to that material which poses a hazard to the transmission line, is required by law to be removed, or is required for the construction and maintenance thereof. All clearing must be approved in writing in advance by the Forest Service.
3. The use of "brush blades" instead of dirt blades on bulldozers is recommended in clearing operations where such use will preserve the cover crop of grass, low growing brush, etc.
4. Soil that has been excavated during construction and not used shall be evenly backfilled onto the cleared area. The soil should be graded to conform to the terrain and the adjacent land.
5. Replacement of earth adjacent to water crossings for access roads should be at slopes less than the normal angle of repose for the soil type involved. CALPECO is responsible for obtaining permits for water from the appropriate regulatory agency, when required.

   Seeding should be accomplished without undue delay and according to these guidelines.
6. Trees, shrubs, grasses, natural features and topsoil that are not removed will be protected from damage during construction.
7. All trenches for buried cable installations in native soils will be backfilled and compacted, and slightly crowned to provide for drainage. Trenches placed within paved or concrete sidewalks will meet the standards established by the Right-of-Way Grant holder for that work project.

Erosion Control

Erosion control and prevention of sediment transport will be implemented in accordance with *USDA, Water Quality Management for Forest System Lands in California - Best Management Practices*. The Forest Hydrologist or Soils Scientist may consider any or all of the erosion control measures outlined in the above referenced document as an appropriate and applicable requirement, on a site-specific basis. The following are examples of commonly implemented and minimal erosion control measures:

1. All proposed roads, trails, and trenches will be staked on the ground and approved by the Forest Service prior to construction.
2. Erosion problems attributed to the construction or maintenance of existing lines will be resolved as soon as possible and subsequent follow-up action initiated as needed to prevent or correct erosion or sediment transport off the site.
3. Temporary roads and/or cleared right-of-way routes used for access will be decompacted, seeded, mulched, and barricaded immediately after they have served their intended purpose unless otherwise approved by the Forest Service. Water bars shall be installed on rights of way or temporary roads at appropriate intervals dependent on slope.
4. Cross drains and other erosion control devices will be constructed where necessary to prevent erosion along rights-of-way or temporary access routes. Cross drains will be constructed for

every 20 feet change in elevation at an angle of approximately 20-30 degrees to the centerline and will extend to a minimum depth of 12 inches into mineral soil.

5. Areas of soil disturbance favorable to revegetation on which ground cover has been destroyed will be revegetated using approved seeds when deemed necessary by the Forest Service. This determination will be made on an area or project basis.
6. When required, stabilization of "bare" soil by tilling and reseeding will be accomplished in accordance with all or a combination of the following procedures as specified by the Forest Service.
   a. Sequence of Treatment
      On each area to be reseeded, the site will be tilled to a depth of six inches, seeded, then the seed will be covered by raking or spreading mulch.
   b. Seeding
      Seeding will be done at a time of the year, in a manner and with the species that the Forest Service considers appropriate. Seeding prescriptions (type of seed to be used and rate of application, etc.) will be prepared on a project basis with respect to and in consideration of site conditions.
   c. Mulching
      Seeded areas shall be uniformly covered with weed-free rice straw or other suitable weed-free mulch, spread at a rate of four tons per acre. Pine mulch from the project area can be used if it is weed-free.

<u>Soil Compaction and Rutting</u>

1. Any projects involving the use of ground based equipment will require a field review by the Forest Service prior to project implementation. These projects may have a Forest Service representative on site during implementation.
2. Projects involving ground based equipment and/or soil disturbance will generally be conducted between May 1 and October 15 of each year, unless variances for operating outside these dates are received from the appropriate regulatory agency. Copies of any variances for operations outside of the normal operating period will be provided to the Forest Service.
3. Landings and log decking locations will not be located within SEZs. Fuel storage and refueling of equipment is prohibited in SEZs.
4. When landings are needed, proper drainage from landings will be provided during use; ditching, sloping, and water bars or other BMPs may be used where needed as recommended by the Forest Service to disconnect runoff from surface water features.
5. Restore landings after operations are complete using the following methods, as determined by the Forest Service:
   - Providing ground cover, such as slash, wood chips or masticated material (spread no more than 6" thick).
   - Ditching, sloping and water bars may be used where needed as recommended by the Forest Service to disconnect runoff from surface water features.
   - Landings will be ripped to approximately 12-inch depth after ground cover has been spread. Ripping is not permitted in known infestations of invasive plants, and may not be possible in rocky soils; this determination will be made by the Forest Service.
   - Landings within 50 feet of an SEZ or greater than ¼ acre will be seeded with a Forest Service-approved native seed mix of grasses, forbs, and shrubs. Landings within 100 feet of infestations of high priority Forest Service invasive species will also be seeded.
   - Where landings are used for decking of material for later disposal by the Forest Service, the Forest Service will conduct landing restoration. Landing restoration cost will be the responsibility of CALPECO.
6. Ground based equipment use off road will be limited to slopes < 30%.

7. Hand treatments, end-lining or equipment reach will be used on slopes > 30%.
8. Ground based equipment will be prohibited in SEZs, except on existing roads. Equipment reach, hand treatments and end-lining will be used in SEZs.
9. End-lining primarily will be used where slopes > 30% exist along roads or in small areas where logs can be end-lined to flatter ground where they can be picked up by equipment.
10. To minimize compaction, gullying, and rutting, ground based equipment operations will be conducted only when soil moisture levels are dry to moist at the 4 – 8 inch depth. The Forest Service will make the soil moisture determinations when conditions are marginal (generally in spring before soils completely dry and in the summer/fall during periods of inclement weather).
11. Waterbars will be installed on skid trails to provide proper drainage and prevent erosion when operations are complete and before forecasted rain. Design and minimum spacing of water bars will be in accordance with the Forest Service Timber Sale Administration Handbook.
12. To the extent feasible, where end-lining occurs on slopes > 10%, end-line material along slope contours (i.e. cross slope) to avoid creating ruts oriented down slope. Ruts created from end-lining will be raked in.
13. Operations outside of the normal operating period (over snow) may be approved when conditions allow and appropriate regulatory permits are in place. Conditions must be adequate to prevent erosion, sediment delivery to water bodies, and soil compaction. Operable conditions must be present on at least 85% of the treatment area and generally will include the following:
    - Frozen soil operations are permitted where operated vehicles, tractors, and equipment can travel without sinking into soil, road, and landing surfaces to a depth of more than 2 inches for a distance of more than 25 feet. Temperatures must also remain low enough to preclude thawing of the soil surface.
    - For over-snow operations, approximately 12 inches of compacted snow/ice will be maintained on undisturbed ground, and 6 inches of compacted snow/ice will be maintained on existing disturbed surfaces.
    - Flag and avoid springs, seeps, and other areas that do not freeze well or are soft.
    - When working outside of normal operating period, monitor operations daily when rain is probable or when temperatures rise above 45 degrees Fahrenheit to ensure that adequate snow and frozen soil depths are maintained and that soil and water quality impacts are not occurring.
    - Move equipment and materials to areas near pavement or at landings before conditions become inoperable.
    - Over snow and frozen soil operations in SEZs, exclude ground-based equipment 25 feet from any intermittent or perennial channels.
    - Temporary crossings of intermittent or ephemeral channels may be approved on a case by case basis by the Forest Service.
14. Any temporary equipment staging areas or access points will be rehabilitated and blocked after project completion.
15. Where skid trails are readily visible to recreational users, use natural features (e.g. trees, shrubs, logs, rocks, etc.) to aid in blocking and/or closing these trails to unauthorized vehicular use.

<u>Hazardous Materials</u>

Hazardous materials, including Sporax® or equivalent, diesel fuel, and gasoline will be transported (except across designated crossings), stored, and handled outside SEZs. Sporax® or equivalent used in SEZs must be used according to label directions. Spill prevention, containment and countermeasure plans will be prepared if quantities used require them.

Invasive plants

Invasive plants can negatively affect, and even displace, native plant communities and wildlife. Currently, several species of invasive plants are present in the CALPECO special use permit area.

A noxious weed prevention plan will be submitted to the Forest Service every five years, with the operating plan. This plan should include the following items.

1. Project areas must be surveyed for non-native invasive species prior to project implementation. Over the snow operations are excluded.
2. Project areas containing non-native invasive species will be flagged and treated/ avoided before implementation. CALPECO may employ a third party contractor to provide noxious weed survey and flagging/treatment. Noxious weed surveys and documentation of flagging/treatment will be submitted to the Forest Service for approval in advance of the work. If the Forest Service will conduct the surveys/reports, GIS layers showing the locations of the work should be sent to the Forest Service in advance of the work, and specialist documentation will be provided to CALPECO as soon as possible. If surveys are needed, specialist documentation must be received the year prior to the planned work.
3. Areas with invasive plants that cannot be avoided must be treated before work begins and after consultation with a Forest botanist.
4. Staging areas for equipment, materials, and crews may not be situated in areas infested by invasive species unless the area has undergone appropriate treatment for invasive plants prior to mobilization to the area. This treatment must be approved and the area must be inspected by the Forest Service before work may commence. GIS layers showing the locations of the work should be sent to the Forest Service in advance of the work.
5. Ensure that all plant material used for erosion control and/or road maintenance is weed free, use weed free certified rice straw or other approved materials. Copies of weed free certifications will be made available to the Forest Service, upon request.
6. If gravel is needed for road repair or to prevent further road damage, utilize gravel from Forest Service approved weed-free gravel sources. CALPECO and contractors either will use gravel from an approved gravel source or will provide a weed-free certificate for the gravel upon request.
7. Clean all equipment that is to be used for inspections or vegetation management before they enter the National Forest if they come from areas known to be infested with noxious/invasive-exotic weeds. Equipment is considered clean when visual inspection does not reveal soil, seeds, plant material, or other such debris.
8. When equipment is used in an area where invasive plants are known to occur, the equipment must be cleaned before it moves onto other National Forest System lands.
9. Minimize the amount of ground and vegetation disturbance in construction areas. Reestablish vegetation where feasible on disturbed bare ground to minimize non-native invasive species establishment and infestation. Revegetation is especially important in staging areas.
10. Utilize locally collected native seed sources when possible. Seed mixes must be approved by a Forest Service botanist or ecologist. 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.

Plants (threatened, endangered, sensitive)

Plants listed as threatened or endangered under the Endangered Species Act or identified as sensitive or otherwise requiring special protection by the Regional Forester should be protected, or mitigative measures must be taken. The following actions will be taken by CALPECO.

1. In all proposed project areas (including maintenance activities) a botanist must be consulted prior to work to determine if sensitive plant surveys have been completed. If no surveys have been conducted, or surveys are older than five years and suitable habitat exists, then surveys may be required before activities occur depending on project activities and habitat.

2. If there are known threatened, endangered, or sensitive plant species present within 100 feet of power line activities, then a USFS Botanist or Ecologist will be notified prior to implementation so that the plants can be flagged and avoided; a USFS Botanist or Ecologist (or assigned crew personnel) must flag the plants, due to the technical nature of correctly identifying the plant species.
3. Sensitive plants and sensitive plant habitat will be protected by identification and avoidance. Known occurrences and appropriate buffers will be flagged so that direct and indirect impacts to those areas can be avoided.
4. When sensitive or watch list plant species occur within the road surface and cannot be avoided, maintenance activities should be planned when roads are dry and plants have completed the flowering stage. A consultation with a Forest Service botanist or ecologist is required to agree on site access and timing.
5. For any inspection or maintenance activities of facilities along the Lake Tahoe shoreline, including beaches, back beaches, dunes, lagoons, back lagoons, stream mouths, and edge of Lake Tahoe, the area must be surveyed by a professional botanist prior to any activities, and if Tahoe yellow cress is found, it will be flagged and avoided. This survey should be conducted just prior to the activities so that flagging will not need to remain on the landscape and attract the attention of the public.
6. If project activities occur in Whitebark Pine *(Pinus albicaulis)* habitat, then US Fish and Wildlife Service will be informally consulted to determine the best action.
7. GIS layers showing the locations of the work will be sent to the Forest Botanist in advance of work.

Plant Survey Guidelines

Ensure updated plant surveys are used. Plant surveys will be reviewed to protect sensitive species and to prevent the spread of invasive plants. If a current plant survey (intuitive controlled: within five years, cursory: within two years) is not available, a protocol-level threatened, endangered, Forest Service sensitive, and TRPA special-interest plant species survey will be conducted.

1. Surveys will be conducted in areas where an action is proposed with known locations or habitat of sensitive species.
2. Surveys will be conducted in areas where an action is proposed where no surveys have been conducted or where surveys have expired.
3. The size of the area surveyed will follow the requirements specified in survey protocols. At times, the USFS may determine that protocol-level surveys are not necessary for a specific location if survey results are still valid from recently conducted protocol-level surveys or there is no suitable habitat. In areas that are not known to support sensitive species, general surveys are recommended before any proposed action. General surveys would include, at a minimum, a desktop (GIS) evaluation of habitat as well as a field based reconnaissance-level survey of the habitat quality. Surveys can be conducted by the USFS or a contractor hired by CALPECO. If a contractor is hired, all work will be reviewed by the USFS and electronic survey files will be provided to the USFS. If the Forest Service conducts surveys, cost recovery fees will apply.

Wildlife

Avoid or minimize impacts to federally threatened or endangered, LTBMU sensitive, or TRPA special interest wildlife species. Any detection of federally threatened or endangered, LTBMU sensitive, or TRPA special interest wildlife species or of nests, dens, roost sites, or other areas of concentrated use (e.g., perch or plucking post) by these species, before or during maintenance activities, within the project area, will be reported to a USFS wildlife biologist and protected as directed in the Forest Plan.

1. Protocol-level surveys will be completed in areas where an action is proposed with known locations of sensitive species. At times, the USFS may determine that protocol-level surveys are not necessary for a specific location if survey results are still valid from recently conducted

protocol-level surveys. In areas that are not known to support sensitive species, general surveys are recommended before any proposed action. Surveys can be conducted by the Forest Service or a contractor hired by CALPECO. If a contractor is hired to conduct surveys, shape files for the work must be submitted to the Forest Service prior to the commencement of the work project. If the Forest Service conducts surveys, cost recovery fees will apply.

2. In areas known to support sensitive wildlife species and where protocol-level surveys are not conducted or the species is known to be present, limited operating periods (LOPs) would be applied.
3. Limited Operating Periods. To avoid or minimize disturbance to breeding activities and suitable habitat of species, limited operating periods (LOPs) will be implemented around nests, dens, roost sites, and other areas of concentrated use (e.g., Protected Activity Centers) by these species as directed in the Forest Plan. LOPs limit the type, spatial extent, and timing of project activities permitted. The timing of LOPs is standardized by species as described in the Wildlife Review. Limitations to the types of project work that may be conducted during a LOP and the spatial extent of the LOP are to be determined by a USFS Wildlife Biologist and are typically based upon the potential of the activity to disturb relevant federally threatened or endangered, LTBMU sensitive, or TRPA special interest species.
4. GIS layers showing the locations of the work will be sent to the Forest Service in advance of work.
5. Sighting of birds that have died of a cause associated with the power facilities will be reported to the Forest wildlife biologist as soon as possible. This report should include date of sighting, number of birds, species, and photo (if available).
6. A USFS Fisheries Biologist will review the Annual Maintenance Plan for potential impacts to Lahontan cutthroat trout. The Fisheries Biologist may need to be on site during project implementation and/or provide additional site-specific design features to avoid direct or indirect impacts to Lahontan cutthroat trout (LCT) or Sierra Nevada yellow-legged frog or important elements (e.g. large woody debris or pools) of their habitats. Site-specific Environmental Site Assessment consultation with US Fish and Wildlife Service for LCT may be needed if impacts to LCT cannot be avoided.

Information regarding sensitive species, LOPs, and survey protocols will be coordinated with consultants as needed.

Wildlife Survey Guidelines

1. Protocol-level wildlife surveys are recommended in areas where an action is proposed with known locations of sensitive species. The size of the area surveyed would follow the requirements specified in survey protocols. Areas without a valid survey are subject to a LOP. At times, the USFS may determine that protocol-level surveys are not necessary for a specific location if survey results are still valid from recently conducted protocol-level surveys. In areas that are not known to support sensitive species, general surveys are recommended before any proposed action. General surveys would include, at a minimum, a desktop (GIS) evaluation of habitat (i.e., California Wildlife Habitat Relationship data) as well as a reconnaissance-level survey of the habitat quality. Surveys can be conducted by the USFS or a contractor hired by CALPECO. If a contractor is hired, all work will be reviewed by the USFS.
2. GIS layers showing the locations of the work will be sent to the Forest Service in advance of work.
3. Surveys within a 50-foot corridor defined as being 25 feet from the centerline of the power line can be conducted by the Forest Service or a contractor hired by CALPECO. If the Forest Service conducts surveys, cost recovery fees will apply.

Wetlands

Damage to springs, streams, seeps, fens, and aspen stands is a concern. When access roads or projects affect the drainage or result in sedimentation of these sensitive areas, mitigation may be necessary or maintenance/project work may need to be scheduled appropriately to minimize potential damage. Consultation with the Forest Service in advance of any project is necessary for work in these areas.

Cultural Resources

Emergency and preventive maintenance of overhead power lines that involve the removal of hazardous trees, fallen trees and replacing utility poles are considered "Screened Undertakings" under the Region 5 Programmatic Agreement. The LTBMU Heritage Resource staff will determine if these activities may cause effects to historic properties within the Area of Potential Effect (APE) of the project.

If there is no potential for damage to historic properties or if the "flag and avoid" strategy is suitable to protect the site, then simple documentation of the undertaking is all that is required. Any more substantial protection measures or projects involving substantial ground disturbance (such as installation of new underground power lines) will require a full cultural resource survey report. By implementing the cultural resource protection measures listed below, CALPECO and the LTBMU will comply with the Region 5 Programmatic Agreement and Section 106 of the National Historic Preservation Act.

- CALPECO will provide the LTBMU with GIS layers of work to be done in advance of annual and preventative maintenance.
- Surveys of cultural resources may be needed in advance of projects for areas not previously surveyed and may be conducted by the USFS or a contractor hired by CALPECO. If a contractor is hired, all work will be reviewed by the USFS.
- Previously identified archaeological and cultural resource occurrences are to be flagged for avoidance by LTBMU Heritage staff (or a contractor with advance approval) with appropriate buffers prior to project implementation so that direct and indirect impacts to those areas can be avoided and the sites will be protected during projects.
- In the case of emergency maintenance, CALPECO will notify the LTBMU of the action and location as soon as the work is complete. The Heritage staff will then evaluate the area for potential impacts on historic properties.
- The felling and removal of hazardous and wind thrown trees will be treated as a Screened Undertaking when they are left in place or lopped and scattered, avoiding flagged cultural resources.
- Replacing power line poles is a Screened Undertaking if it does not involve new ground disturbance, or where there is less than one cubic meter of total ground disturbance per acre, or where the presence of historic properties is considered highly unlikely. Screened Undertakings require pre-implementation documentation by Heritage Resource staff.

If any unrecorded cultural resources are discovered during a project, all project related activities must cease immediately and the consultation process as outlined in Section 800.13 of the Advisory Council on Historic Preservation's regulations 36 CR 800 must be initiated.

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EXHIBIT E
TREE/SLASH REMOVAL AND PRUNING GUIDELINES

CALPECO will conduct tree slash/removal and pruning operations in a manner to (i) protect the National Forest lands and resources near its power lines, and (ii) to provide for the safe operation of its power lines.

The Forest Service requires utilities such as CALPECO to either remove or deck that material cut because of their permitted activity on National Forest Service lands, with limited exceptions. Decking the material makes it accessible for removal by the Forest Service.

The Calfire Powerline Guide states that debris from hazard abatement adjacent to powerlines should not be allowed to accumulate. This Guide also states these areas are expected to be free of fuels and act as a "fire break" in the event of a power line fire. The Forest Service may prefer a higher degree of pruning near lines with no access, as opposed to felling trees, if fuels accumulation is a concern or in areas where trees may be desired to be retained (such as urban areas with few trees).

Areas of special concern are the protection and avoidance of fragile areas (such as marshes, stream zones etc.) when accessing the area, falling, forwarding, decking, and hauling timber, and cleaning up slash.

CALPECO will notify the Forest Service of planned vegetation treatments as described in Exhibits A and B. The Forest Service will review proposed work and issue a Notice to Proceed once the review is completed. No vegetation management work may proceed (except in emergency cases) until a Notice to Proceed is issued to CALPECO by the Forest Service.

All vegetation management activities of CALPECO and its subcontractors will be carried out in a manner that does not interfere with natural hydrologic processes or increase fire hazard. CALPECO will specify how access will be gained, types of equipment to be utilized, and mitigation measures. This is particularly critical where streams and other areas of critical concern are encountered such as marshes and meadows. It is essential to realize that motorized vehicle access is not necessary in all areas (see Exhibit F).

General Guidelines for Vegetation Management Activities:

1. All activities involving tree trimming or tree removal, clearing and slash disposal on National Forest will be coordinated by CALPECO, subcontractors, and the Forest Service.
2. All activities involving tree trimming or vegetation removal will comply with the Fire Prevention Guidelines (Exhibit G).
3. Trees proposed for trimming should maintain at least 30% live crown or be considered for removal when less than 30% live crown can be retained.
4. All trees to be cut will be reviewed and approved, using the R-6 Field Guide for Danger Tree Identification and Response, by the Forest Service prior to cutting. In the event that the Forest Service disagrees with the need to remove an individual tree, CALPECO will be notified in writing and the tree will not be marked for removal. Other options to reduce the hazard such as pruning may be agreed upon.
5. All trees cut by CALPECO shall have a maximum stump height of 6 inches.
6. Stumps of green trees larger than 12" dsh (diameter at stump height) will be treated with an EPA registered borate compound within 4 hours of cutting to prevent the spread of Annosus root disease.

7. Treatment of Merchantable Timber

   It is preferable for all cut merchantable material either to be removed from National Forest by CALPECO under permit or to be made accessible for disposal by the Forest Service. In areas where slope, limited access or other environmental conditions prevent removal of merchantable material, cut material may be left as downed logs if agreed upon in advance (see description below).

   Merchantable timber will be disposed of in one of the following two ways, to be determined by the Forest Service.

   a. Timber may be sold to CALPECO at the prevailing stumpage rate as determined by a Standard Rate Appraisal. The Forest Service will issue a separate permit for cutting and removing merchantable trees. Permit will be issued prior to the Notice to Proceed.
   b. Timber may be decked by CALPECO and disposed of by the Forest Service. Locations for decking of merchantable timber and resource protection measures for processing the timber will be agreed upon prior to issuance of Notice to Proceed.

8. Treatment of Non-Merchantable Material and Activity Fuels

   All non-merchantable material will be treated by CALPECO in a manner that is acceptable to the Forest Service. In areas where access prevents removal of cut material, CALPECO should avoid, to the extent possible, cutting green merchantable trees and should instead prune whenever feasible.

   a. The Forest Service standard for acceptable fuel loading is ≤ 10 tons per acre, except for in stream environment zones (SEZs) and wildlife protected activity centers (PACs), where the acceptable fuel loading is 15 tons per acre. Acceptable treatments for non-merchantable materials are:
      i. Chip and/or remove. This is the preferred method for treatment of non-merchantable materials whenever access allows. Where chip materials remain on site, chip depth must be < 4" and be evenly dispersed across the forest floor. No chip material will be permitted within SEZs.
      ii. Lop and Scatter. Lop and scatter of non-merchantable materials will only be permitted in areas where activity fuels are lightly distributed across the landscape and where retention of activity fuels does not exceed tons per acre standards for acceptable fuel loading,. When lop and scatter is permitted, all material less than 10" diameter and greater than 3 feet in length must be lopped and scattered; treated slash depth will not exceed 8".

   Where feasible, within the immediate foreground (up to 150 ft.) of highly visible areas (i.e. residential areas, major roadways, recreational improvements and trails), remove slash and do not pile.

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EXHIBIT F
ROAD USE AND MAINTENANCE GUIDELINES

These guidelines are to assure CALPECO and the Forest Service that construction and maintenance activities associated with this permit are carried out in accordance with current standards and practices and that proposed work activities and work standards are reviewed and agreed upon prior to commencement of work. These guidelines set forth the general terms and conditions for the cooperative planning, survey, design, construction, reconstruction, improvement and maintenance of certain roads within the boundaries of the Lake Tahoe Basin Management Unit.

Coordination: CALPECO and the Forest Service shall each designate a coordinator to review road use and proposed maintenance on roads and agree on specific details of each project. The coordinators will also review completed work to assure the management that the objectives of both parties are being met.

The following summarizes activities on which CALPECO and the Forest Service will cooperate:

A. Agree that certain roads under the jurisdiction of CALPECO or the Forest Service that serve the National Forest should be maintained and, if necessary, improved to a standard adequate to accommodate safely and economically all traffic that uses such roads.
B. Agree on the identification of roads or road segments that meet the criteria in item A by a listing and appropriate maps.
C. Provide for formal meetings and informal consultation on a regular basis to discuss and agree on action with respect to the roads identified pursuant to item B.
D. Provide for regular and adequate maintenance of the roads identified in item B, including the assignment of maintenance responsibilities.
F. Provide for entering into project agreements when improvements of a road under the jurisdiction of one party is to be financed in whole or in part from funds or resources provided by the other party.
    1. Identification of Roads. A list of roads and segments of roads that meet the criteria set forth in item IIIA is agreed upon and is attached (Exhibit I) as part of this agreement. Exhibit I may be modified by agreement between CALPECO and the Forest Service, by adding or removing roads or road segments, or by altering the description of a road or road segments, to give it proper identity. Each such modification shall be indicated by a revised Exhibit I bearing the signatures of the parties or their authorized representatives and the effective date of the revision. These roads will be classified as follows:
        a. National Forest System roads, no easement
        b. Non-system/decommissioned roads on National Forest System land, easement owned by CALPECO
        c. Non-system/decommissioned roads on National Forest System land, no easement

        (The Forest Service will review the non-system/decommissioned roads in Exhibit I to determine if they will become system/classified roads.)
    2. Maintenance Plans. At the annual meeting provided for in item 5 (below), plans for maintaining the roads listed in Exhibit I shall be agreed upon. Such plans shall include assignment of responsibility for maintenance or particular elements of maintenance to CALPECO or the Forest Service for each road or segment of road listed in Exhibit I. To the extent practical, and subject to availability of funds, responsibility for maintenance shall be assigned in proportion to the use for which each party is properly responsible.

        Maintenance shall include preserving the roads, including structures and related facilities, in

their original condition, as constructed or reconstructed, to provide resource protection and to maintain road characteristics as defined in the Forest Service Road Maintenance Objectives. Newly disturbed areas (i.e. reconstructed/constructed lead-off ditches, sediment basins, waterbars, etc.) shall be stabilized according to the California Stormwater Quality Association (CASQA) Construction BMP Handbook.

Maintenance plans shall provide for prompt changes in maintenance assignments during the period of the plan upon agreement by the parties or their designated representatives. Public safety will be the responsibility of the entity performing the maintenance work.

3. Project Agreements. When improvement of a road, or investigation of whether a non-system or declassified road is to become a classified road, listed in Exhibit I is to be financed in whole or in part from funds or resources provided by the party not having jurisdiction, the parties shall enter into a project agreement providing for performing the improvement work and its financing. A project agreement is not required for improvement of a road or a road segment over which the party performing and financing such improvement has jurisdiction. Project agreements shall be supplemental to this general agreement and subject to the agreements, provisions, and conditions herein contained.
   a. A project agreement shall be entered into prior to beginning of improvement or construction work for which a project agreement is required.
   b. The project agreement shall include the following elements:
      (1) Identification of road or road segment to be improved or evaluated for classified status.
      (2) Plans and specifications for the project or provision for their development and subsequent agreement thereon.
      (3) Schedule of construction or improvement work and designation of the party or parties to perform the work.
      (4) Estimates of cost of improvement or construction.
      (5) Agreement as to how cost of work is to be borne including arrangements to share in the work or to deposit funds with the performing party for a share of the costs.
   c. If cost recovery or collection agreement funds are provided by CALPECO for work to be performed by the Forest Service, they shall be deposited in the Treasury of the United States. Any unused balance of the funds for the purposes outlined in the project agreement shall be returned to CALPECO after completion of the work performed or upon agreement of the Forest Service.

      The amount of funds as set forth in the project agreement shall be the maximum commitment of CALPECO to the project unless changed by a modification of the project agreement.
   d. Public safety will be the responsibility of the entity performing the improvement work.
4. Easements: if an easement owned by CALPECO does not include access to the area covered by the easement, this access will be outlined in the special use permit.
5. Annual Meeting and Continuing Consultation. CALPECO and the Forest Service shall meet at least once each year to review matters covered by these guidelines and to agree on actions to implement these guidelines including, but not limited to approval of the following:

   a. changes in the listing of roads in Exhibit I;

   b. the annual maintenance plan; and

   c. project agreements for construction or reconstruction.

   It is also the intent of the parties to arrange for continuing consultation between their representatives with the objective of reaching agreement by the parties on all matters of mutual concern that are covered by these guidelines. The Forest Supervisor of the Lake Tahoe Basin Management Unit for the Forest Service, and the General Manager for CALPECO, or their designees, shall be responsible for arranging for formal meetings and continuing consultation.

6. Modification.
   a. These guidelines may be modified by mutual consent.
7. Miscellaneous.
   a. It is understood that any default by a CALPECO or other authorized road user creates no liability on the part of the Forest Service.
   b. Nothing herein contained shall be construed to obligate the Forest Service or CALPECO beyond the extent of available funds allocated or programmed for any work, or contrary to applicable laws, rules and regulations.
   c. Where applicable, any contract, agreement, or understanding entered into pursuant to these guidelines providing for work to be performed shall include the requirements of Federal laws, Executive Orders, and Regulations.

Summary

CALPECO will:

1. Maintain roads they have responsibility for, as stated in Exhibit I and this plan. Maintenance of roads shall be focused on resource protection, including preserving all drainage structures, barriers, gates, and road characteristics such as cross sections and existing surface types. Control of surface erosion and enhancement of water quality are primary concerns.
2. Repair all road surfaces damaged by operations and repair or replace gates, barriers, signs, or other Forest Service property damaged by their operation.
3. Install and maintain their own locking system on gated roads listed in Exhibit I, being careful not to damage, remove or lock out Forest Service or other locking systems. Return all Forest Service keys to the Supervisor's Office when no longer needed.
4. Coordinate the use and maintenance of nonsystem/decommissioned roads with the Forest Service. When roads are no longer in use, decompact, stabilize (mulch), and camouflage the area with approved materials. When these roads are still needed, camouflage the area with approved materials and install and maintain natural barriers where needed to restrict public vehicular access.
5. Notify the LTBMU Hazardous Materials Coordinator as soon as possible when spills or other hazardous events occur.
6. Notify the LTBMU Lands Department as soon as possible when emergency responses occur.
7. Implement appropriate Best Management Practices (BMPs) on construction, maintenance or emergency repair sites with the objective of preventing the discharge of degraded runoff water because of ground disturbing activities.

Forest Service will:

1. Maintain roads that they have responsibility for, as stated in Exhibit I and this plan.
2. Cooperate with CALPECO on emergency power line repair work and subsequent access road repair.
3. Provide support on the proper implementation of Best Management Practices (BMPs) to ensure temporary and permanent resource protection.

CALPECO
MASTER SPECIAL USE PERMIT
ELD409201

EXHIBIT G
FIRE PREVENTION GUIDELINES
(Ref: FSH 6309.32 and 6309.11)

The provisions set forth below outline the responsibility for fire prevention activities within the permit area.

CALPECO:

1. Shall abide by the requirements of these Fire Guidelines.
2. Shall take all steps necessary to prevent their employees, subcontractors and their employees from setting fires not required in completion of the permit, shall be responsible for preventing the escape of fires set directly or indirectly as a result of permit operations, and shall extinguish all such fires which may escape.
3. Shall follow all State and Forest Service required procedures during the Fire Precautionary Period (typically June 1 to October 15).
4. Shall obtain permits from the Forest Service before blasting/storage of explosives and detonators, and welding/cutting.
5. Shall allow and assist in periodic testing and inspection of required fire equipment. CALPECO shall certify compliance with required fire precautionary measures before beginning operations during Fire Precautionary Period, and shall update such certification when operations change.
6. Shall designate and furnish in project area during operating hours a qualified fire supervisor authorized to act on behalf of CALPECO in fire prevention and suppression matters.
7. Shall provide a Fire Prevention Plan as part of each Five-Year Operations and Maintenance Plan that is consistent with this exhibit and with State and Forest Service requirements.

Forest Service:

The Forest Service may conduct one or more inspections for compliance with this Fire Plan. The number, timing, and scope of such inspections will be at the discretion of the Forest Service. Such inspections do not relieve CALPECO of responsibility for correcting violations of these Fire Prevention Guidelines or for fire safety in general, as outlined above.

<u>General Information</u>

1. Smoking and Fire Rules. Smoking shall not be permitted during fire season, except in a barren area or in an area cleared to mineral soil at least three feet in diameter. Under no circumstances shall smoking be permitted during fire season while employees are operating equipment, or walking or working in grass and woodlands.
2. Storage and Parking Areas. Equipment service areas, parking areas, and gas and oil storage areas shall be cleared of all flammable material for a radius of at least 10 feet unless otherwise specified by the Forest Service. Small mobile or stationary internal combustion engine sites shall be cleared of flammable material for a slope distance of at least 10 feet from such engine. The permit administrator shall approve such sites in writing.
3. Oil Filter and Glass Jugs. CALPECO shall remove from National Forest lands oily rags and used oil filters and shall prohibit use of glass bottles and jugs in CALPECO operations.
4. Fire Patrol Person. CALPECO shall furnish a qualified fire patrolperson each operating day when Project Activity Level C or higher is in effect. When on duty, the sole responsibility of

patrolperson shall be to patrol the operation for prevention and detection of fires, take suppression action where necessary and notify the Forest Service. By agreement, one patrolperson may provide patrol on this and adjacent projects.

Reporting Wild Fires

CALPECO's employees shall report all fires as soon as possible but no later than 15 minutes after initial discovery to any of the following facilities and personnel listed below:

Name	Telephone
Emergency	911
Dispatch Center (Camino)	530-642-5170
Forest Supervisor	530-543-2600
Permit Administrator	530-543-2600
Fire Management Officer	530-543-2631

When reporting a fire, provide the following information:

- Your name
- Call back telephone number
- Project name
- Location, including legal description (Township, Range, Section) or GPS location (Latitude/ Longitude)
- Descriptive location (Reference point)
- Fire Information
  - Size
  - Rate of spread
  - Wind conditions
  - Access
  - Hazards to personnel

CALPECO
MASTER SPECIAL USE PERMIT
ELD409201

EXHIBIT H
POWER LINES UNDER PERMIT

El Dorado County (141.53 acres, 34.73 miles in length)

Line	Line Name	Portion	Section	T	Range	Width Feet	Length Miles	Acres
A.	Emerald Bay Tract	NE 1/4	21	13N	17E	20	0.78	1.89
B.	Angora Tract - 13 kV	SE 1/4 SW 1/4	13	12N	17E	20	1.71	4.15
		SW 1/4 SW 1/4						
		NW 1/4 NW 1/4	24					
		E 1/2 E 1/2 NE 1/4 SE 1/4	23					
		NW 1/4 NE 1/4	26					
C.	Cathedral Park - 13.8kV	W 1/2	2	12N	17e	20	1.5	3.64
		W 1/2	11					
		NW 1/4 NE 1/4	14					
D.	So. Lake Tahoe Distribution - 14.4 kV	NE 1/4 SE 1/4	31	12N	18E	20	3.34	8.10
		W 1/2 W 1/2	32					
		SE 1/4 NE 1/4	6	11N	18E			
		E 1/4 SE 1/4 SE 1/4						
		E 1/2	7					
		SW 1/4						
E.	Old Mill Guard Station	Portion of lot 4	2	12N	17E	20	0.18	0.44
F.	Placerville Lumber Saw Mill Rd.	SW 1/4 SW 1/4	17	12N	18E	20	0.11	0.27
G.	Lily Lake	S 1/2 NE 1/4	22	12N	17E	20	0.13	0.32
H.	Spring Creek Tract	SE 1/4 SE 1/4	27	13N	17E	20	3.8	9.21
		E 1/2	34					
I.	Upper Truckee Guard Station	SE 1/4 SE 1/4	6	11N	18E	20	0.15	0.36
J.	Washoe County Girl Scout Camp	S 1/2 SE 1/4 SE 1/4 SW 1/4	30	14N	17E	15	0.65	1.18
	(Meeks Creek)							
K.	Stockade Extension	NW 1/4 NE 1/4 NE 1/4 NW 1/4	36	13N	17E	20	0.31	0.75
		SE 1/4 SW 1/4	25					
L.	South Tahoe Airport Twin Peaks Beacons	S 1/2 SE 1/4	17	12N	18E	20	0.55	1.33
M.	South Tahoe Airport Cold Creek Beacon	W 1/2 W 1/2	11	12N	18E	20	1.16	2.81
		W 1/2 W 1/2	14					
O.	Baldwin Recreation Area	Lot 6	35	13N	17E	20	0.61	1.48
P.	South Tahoe Airport-Tahoe Mtn Beacon	NW 1/4 NE 1/4	7	12N	18E	20	0.09	0.22
Q.	Tallac Lutheran Camp	S 1/2	35	13N	17E	10	0.46	0.56
R.	USFS Campground -	S 1/2	36	13N	17E	10	0.4	0.48

	Fallen Leaf Lake							
S.	Tahoe Valley Sub - Pioneer Trail	W 1/2 W 1/2 NW 1/4	22	12N	18E	50	0.61	3.70
		NW 1/4 SE 1/4 SW 1/4 NE 1/4	21					
T.	Echo Summit Intertie - PGE	SE 1/4	6	11N	18E	25	0.45	1.36
U.	Lift #4 Heavenly Valley	W 1/2	1	12N	18E	25	0.24	0.73
V.	Tahoe Valley Distribution	SW 1/4 NE 1/4 W 1/2 SE 1/4	21	12N	18E	25	0.75	2.27
W.	South Fallen Leaf Lake	W 1/2 SW 1/4	14	12N	17E	10	1.09	1.32
		S 1/2 SE 1/4	15					
X.	Emerald Bay - Bliss State Park	NE 1/4 SW 1/4 W 1/2 SE 1/4	9	13N	17E	25	0.55	1.67
Y.	El Dorado Hot Mix Plant	SE 1/4 NE 1/4	21	12N	18E	10	0.187	0.23
Z.	Lift 1 to T-Bar Heavenly Valley		1	12N	18E	10	0.38	0.46
AA.	Concord Camp	SW 1/4	35	13N	17E	10	0.095	0.12
BB.	KTHO Tower	NW 1/4 SW 1/4	2	12N	18E	10	0.023	0.03
CC.	Lake Tahoe Blvd. - Old Sawmill Site	S 1/2	8	12N	18E	25	0.69	2.09
	Industrial Ave.		8	12N	18E	5	0.07	0.04
DD.	KCRL TV Translator - Tahoe Mountain	SW 1/4 SW 1/4	6	12N	18E	10	0.576	0.70
		SE 1/4 SE 1/4	1	12N	17E			
EE.	Baldwin Beach Dump Station	NE 1/4	35	13N	17E	10	0.38	0.46
		SE 1/4	26					
FF.	Kiva pump station	SE 1/4 SW 1/4	25	13N	17E	10	0.338	0.41
		NE 1/4 NW 1/4	36					
GG.	Tallac pump station	S 1/2 NE 1/4	6	12N	18E	10	0.189	0.23
HH.	Taylor Creek pump station	W 1/2 NW 1/4	36	13N	17E	10	0.089	0.11
II.	Landis and Murtaugh Extension	NE 1/4 NW 1/4	11	12N	17E	10	0.045	0.05
JJ.	Heavenly Valley Main Service		1	12N	18E	25	1.8	5.45
KK.	Jicarilla Drive	SW 1/4	10	12N	18E	10	0.6	0.73
LL.	State Line - Meyers - 60 kV	Begins	1	12N	18E	50	5.74	34.79
		Ends	22					
MM	Buckeye - Meyers - 120 kV		7, 8	12N	19E	100	3.91	47.39
			12, 13, 14,15, 22	12N	18E			

Placer County (7.69 acres, 2.25 miles in length)

Line	Line Name	Portion	Section	T	Range	Width Feet	Length Miles	Acres`
A.	Tahoe Vista 14.4 kV	NW 1/4 SW 1/4	12	16N	17E	10	0.009	0.01
B.	Crystal Bay Development 14.4	E1/2 W1/2						
		LOTS 9 & 10	18	16N	18E	25	1	3.03
C.	Truckee - Brockway 60 kV		1	15N	16E	20	0.23	0.56
D.	Kingswood 267 Project 14.4 kV underground		2	16N	18E	25	0.14	0.44
E.	McKinney water tank		18	14N	17E	20	.12	.29
F.	Twin Crags - transmission		12	14N	16E	40	.51	2.47
G.	Twin Crags - distribution		12	14N	16E	20	.12	.29
H.	64 Acres (Tahoe City Y)		7	15N	17E	40	.12	.6

CALIFORNIA PACIFIC ELECTRIC COMPANY (CALPECO)
MASTER SPECIAL USE PERMIT
ELD409201

EXHIBIT I
ROADS

1. NATIONAL FOREST SYSTEM ROADS – NO EASEMENT, NO RENT

El Dorado County

Forest Road #	Name	Sheet #	Conditions
12N21, 12N21B	High Meadows	5	When gate is closed, do not access if resource damage would occur
12N21C	Off High Meadows, Level 1	5	Gate is always closed, only access in emergency
1112	Upper Truckee Guard Station	6	Gate is always closed: do not access if resource damage would occur.
1104	Echo Summit North	6	When gate is closed, do not access if resource damage would occur
1106	Johnson Pass	6	Paved road – OK to go behind closed gate.
1209	Pope Beach Rd	6	Paved road – OK to go behind closed gate.
1207, 1207B	Rainbow Tract	6	When gate is closed, do not access if resource damage would occur
1214, 12N14A	Angora Ridge Rd	6	When gate is closed, do not access if resource damage would occur
12N15	Trout Creek Slope, off Pioneer Trail, Level 1	6	Gate is always closed: do not access if resource damage would occur.
12N08	Powerline Road	6	When gate is closed, do not access if resource damage would occur
1226	STPUD pump station near Pope Beach	6	Paved road – OK to go behind closed gate.
1302, 1311	Access road to Kiva picnic parking lots	6	Paved roads – seasonal closures – OK to go behind closed gate.
1316, 1317	Admin roads within Tallac Historic Site	6	Paved roads, within historic area – must get advance approval to use vehicle
1336	Taylor Creek Pumphouse	6	Gate is always closed: do not access if resource damage would occur.
1301A-H	Fallen Leaf campground	6	Paved road – OK to go behind closed gate.
1110, 1111	Bridge Tract and Hawley Grade	7	When gate is closed, do not access if resource damage would occur
1307, 1307A, 1307B, 1307C, 1307D, 13N07E, 1393, 1393A, 1394, 1394A, 1394B, 1395, 1395A, 1395B, 1395C, 1396, 1396A	Spring Creek Roads	8	Paved roads – OK to go behind closed gate.

1306, 1306A, 1379, 1379A, 1379B	Mt Tallac Trailhead, Camp Shelley and Concord	8	When gate is closed, do not access if resource damage would occur
1203, 1205, 1205A	Stanford Hill Tract	8	Paved road – OK to go behind closed gate.
1216, 1216A	Glen Alpine	8	Gate is always closed: do not access if resource damage would occur.
1330	Upper Emerald Bay Rd	8	When gate is closed, do not access if resource damage would occur
1332	Lower Emerald Bay Road	8	Paved road – OK to go behind closed gate.
1304	Cathedral Rd, Fallen Leaf Lake	8	When gate is closed, do not access if resource damage would occur
1305	Baldwin Rd	8	Paved road – OK to go behind closed gate.
1414, 1414A, 1414B, 1418, 1418A	Meeks Bay CG and Resort	9	Paved road – OK to go behind closed gate.

Placer County

Forest Road #	Name	Sheet #	Conditions
16N86	Beaver Street Extension	1	When gate is closed, do not access if resource damage would occur
16N55	Martis Slope, off Hwy 267	1	When gate is closed, do not access if resource damage would occur
16N56, 16N56A	Martis Tie, off Hwy 267	1	When gate is closed, do not access if resource damage would occur
16N97	Martis Tie	1	When gate is closed, do not access if resource damage would occur
16N57	Red Cedar Overlook, off Beaver St, Level 1	1	When gate is closed, do not access if resource damage would occur
16N63	Carnelian Road	1	When gate is closed, do not access if resource damage would occur
16N74	Sawmill Flat, off Fulton Crescent Dr	1	When gate is closed, do not access if resource damage would occur
16N75	Sawmill Flat	1	When gate is closed, do not access if resource damage would occur
16N91	Stateline Powerline, Level 1	1	Gate is always closed: do not access if resource damage would occur.
16N92	Martis Peak Rd	1	When gate is closed, do not access if resource damage would occur
16N93	Regency Extension, off Regency Way	1	When gate is closed, do not access if resource damage would occur
16N52, 16N52A	Gas Line Rd, off Hwy 267	1	When gate is closed, do not access if resource damage would occur
73	Fiberboard Freeway, Mt Watson	1	East paved section – OK to go behind closed gate. West native surface section - when gate is closed, do not access if resource damage would occur
16N73B	East Spur, off Mt Watson	1	When gate is closed, do not access if resource damage would occur

1414, 1414A, 1414B, 1418, 1418A	Meeks Bay CG and Resort	9	Paved road – OK to go behind closed gate.
1528, 1528A, 1528B, 1528C, 1528D	William Kent Campground	10	Paved road – OK to go behind closed gate.
03	Barker Pass	10	Paved road – OK to go behind closed gate.
1507	Tahoe Tavern Road	11	Paved road – OK to go behind closed gate.
1546, 1546A	Fir Crags	11	When gate is closed, do not access if resource damage would occur
16N53	Deer Creek Road, off 73	11	When gate is closed, do not access if resource damage would occur
1530	Twin Crags, Tahoe City	11	Paved road – OK to go behind closed gate.
1530A	Twin Crags Spur	11	Paved road – OK to go behind closed gate.
16N71	Mt Watson Access	11	When gate is closed, do not access if resource damage would occur

2. NONSYSTEM/DECOMMISSIONED ROADS/TRAILS – EASEMENT OWNED BY CALPECO

El Dorado County

Easement ID	Line #	Sheet #	Vicinity
CA-C30-5614	640	4	Powerline Trail – Bijou
1050	111	5	Meyers-Buckeye
4109	111	5	Meyers-Buckeye
2115		6	Jameson Beach Rd.
79701		6	Jameson Beach Rd.
4778		6	Camp Rich
4777		6	Camp Rich
C30-2013		6	Valhalla, Hwy 89, Fallen Leaf Rd.
GEORGE POPE		6	Pope Beach
3196		6	Cathedral Road
C30-1162		6	Angora Highlands – Tahoe Mtn
C30-966		6	Tahoe Mtn
4810		6	Stanford Camp
3684		6	Angora Ridge Rd – Fallen Leaf
3752		6	Sawmill Rd.
4150		6	Sawmill Rd.
4149		6	Sawmill Rd.
5272		6	Sawmill Rd.
C30-2742		6	Sawmill Rd.
7152		6	Hwy 50/89 Meyers
25024		6	Hwy 50/89 Meyers
11728		6	Meyers - Chiapa
26300		6	Old Meyers Grade
2522		7	S. Upper Truckee
C30-567		8	Cascade
C30-2013		8	Cascade – Spring Creek area
5362		8	Spring Creek
4373		8	Spring Creek
7301		8	Spring Creek
3196		8	Cathedral Rd
1486		8	Glen Alpine
C30-5675		8	Glen Alpine
5041		8	Glen Alpine

Placer County

Easement ID	Line #	Sheet #	Vicinity
20066		1	Kings Beach – Beaver Dr.
3132	629	10	Twin Crags
C30-255	629	11	Twin Crags
47498		11	Fiberboard

3. NONSYSTEM/DECOMMISSIONED ROADS – NO EASEMENT (use authorized by special use permit, rent charged) Total: 5.45 acres.

El Dorado County - .85 acre, .7 mile in length

Forest Road #	Name or Location	Comments, Power Line #	Length of Use (miles)	Width (feet)	Acres	Sheet #	Conditions
N/A	Upper Truckee Guard Station, under line		0.7	10	.85	6	Gate is always closed: do not access if resource damage would occur.

Placer County – 4.6 acres, 3.7 miles in length

Forest Road #	Name or Location	Comments, Power Line #	Length of Use (miles)	Width (feet)	Acres	Sheet #	Conditions
73.2	Near 73 and Hwy 267	650 - Truckee-Brockway, 47498	0.3	10	.36	1	Do not access if resource damage would occur.
73.3, 73.6	Near 73 and Hwy 268	650 - Truckee-Brockway, 47498	0.3	10	.36	1	Gate is always closed: do not access if resource damage would occur.
16N63.1	Near 73 and Hwy 269, access to 73.3	650 - Truckee-Brockway, 47498	0.1	10	.12	1	Gate is always closed: do not access if resource damage would occur.
16N57B.1, 16N57B.2	Extension of Red Cedar Overlook	Beaver St Area, 20066, 8993	1.7, 0.2	10	2.31	1	Gate is always closed: do not access if resource damage would occur.
N/A	McKinney water tank road		0.2	15	.36	9	Gate is always closed: do not access if resource damage would occur.
N/A	Blackwood Canyon roads, Elizabeth Drive		0.3	10	.36	10	Do not access if resource damage would occur.
N/A	Tahoe Wood Blvd, near Granlibakken		0.1	10	.12	10	Do not access if resource damage would occur.
T16N71.1, T16N71.1A, T16N71.1A1, T16N71.2	Mt Watson Access		0.2, 0.1, 0.1, 0.1	10	.61	11	Do not access if resource damage would occur.

CALPECO
MASTER SPECIAL USE PERMIT
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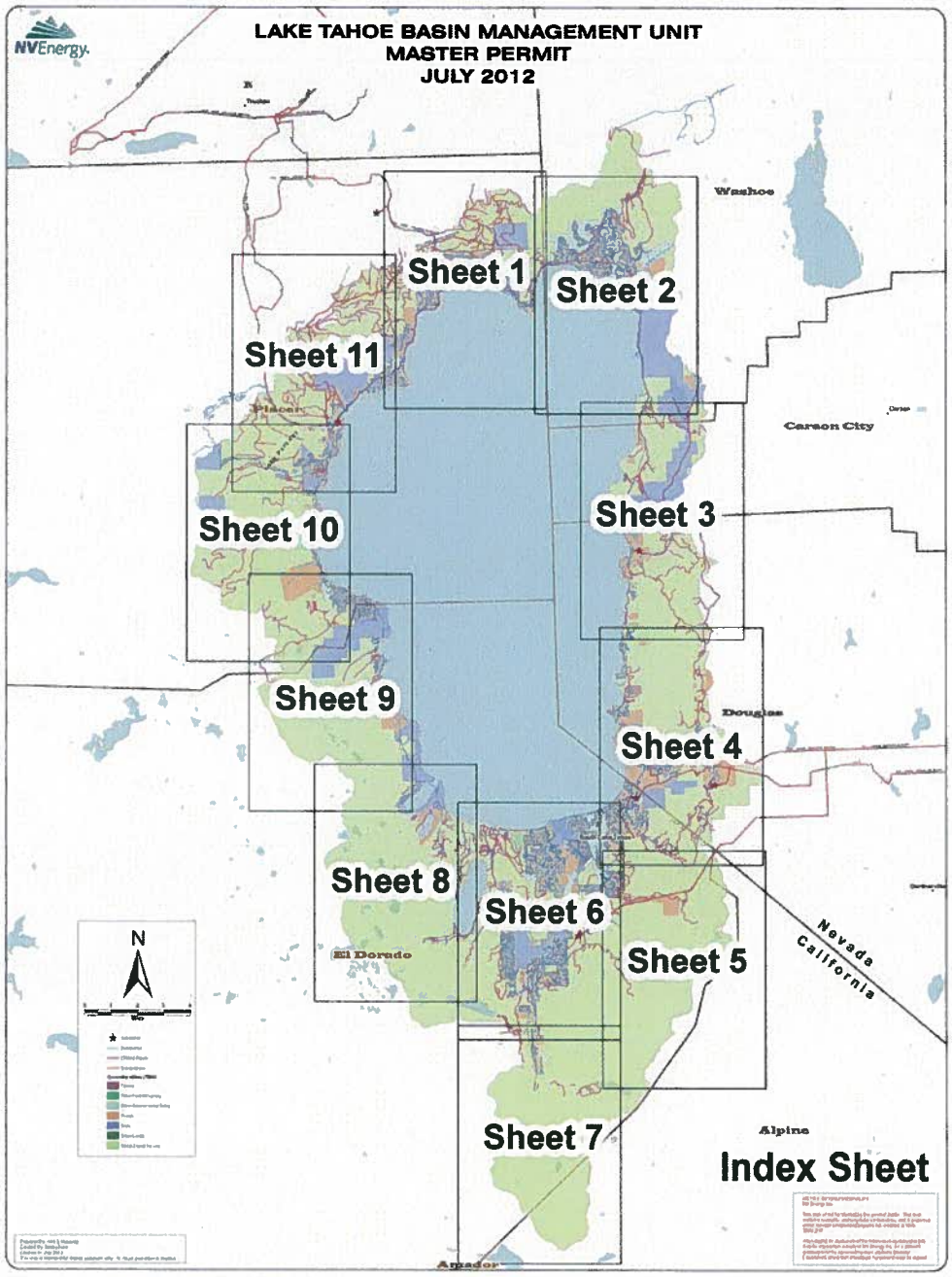
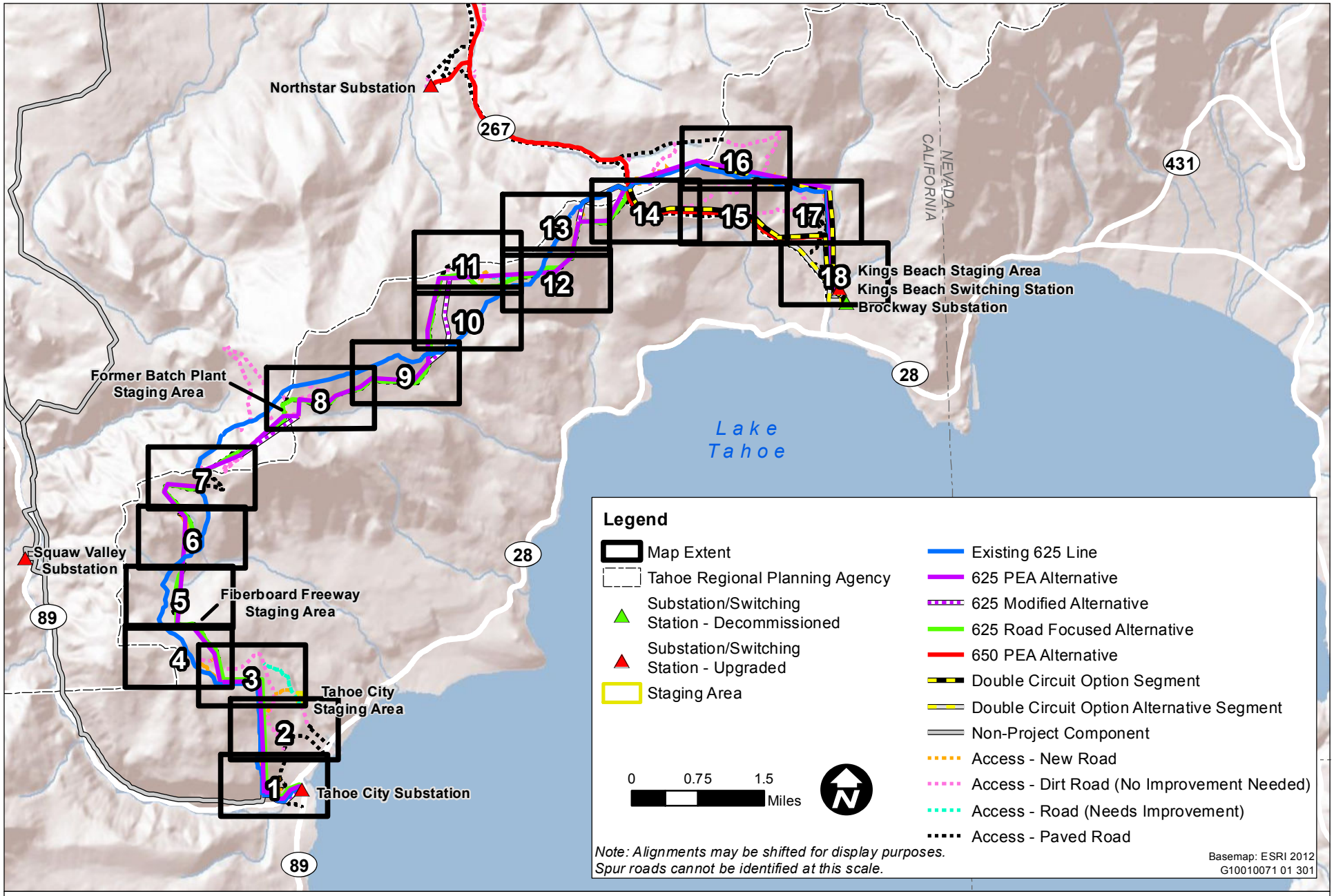
EXHIBIT J

MAP OF PERMIT AREA (California only)



Appendix J

Land Capability Districts within the Project Area

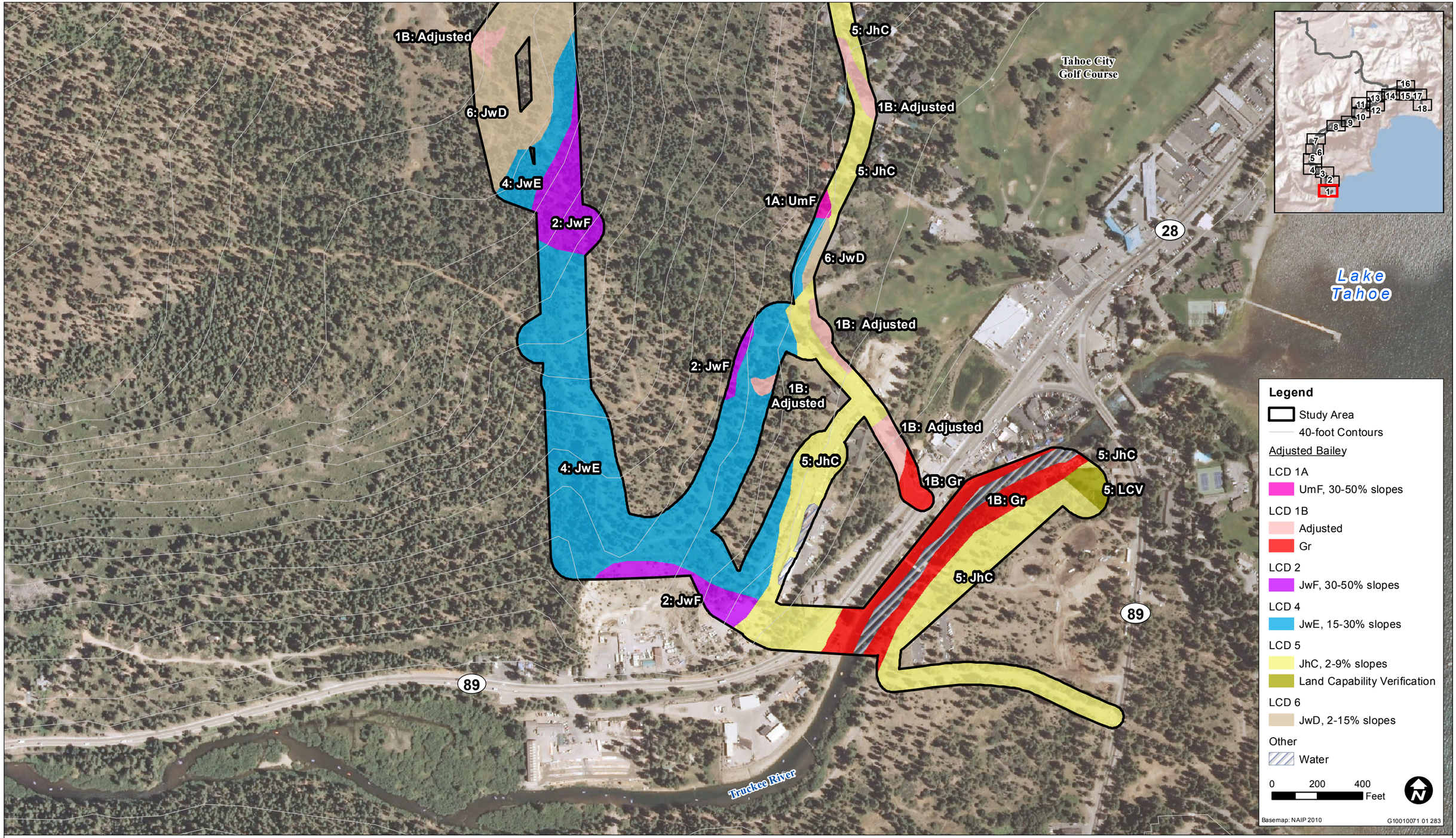


Source: Data received from TRPA and TriSage 2012; adapted by Ascent Environmental in 2012

Adjusted Bailey Map Layout

California Pacific Electric Company
625 and 650 Electrical Line Upgrade Project EIS/EIS/EIR

ASCENT ENVIRONMENTAL

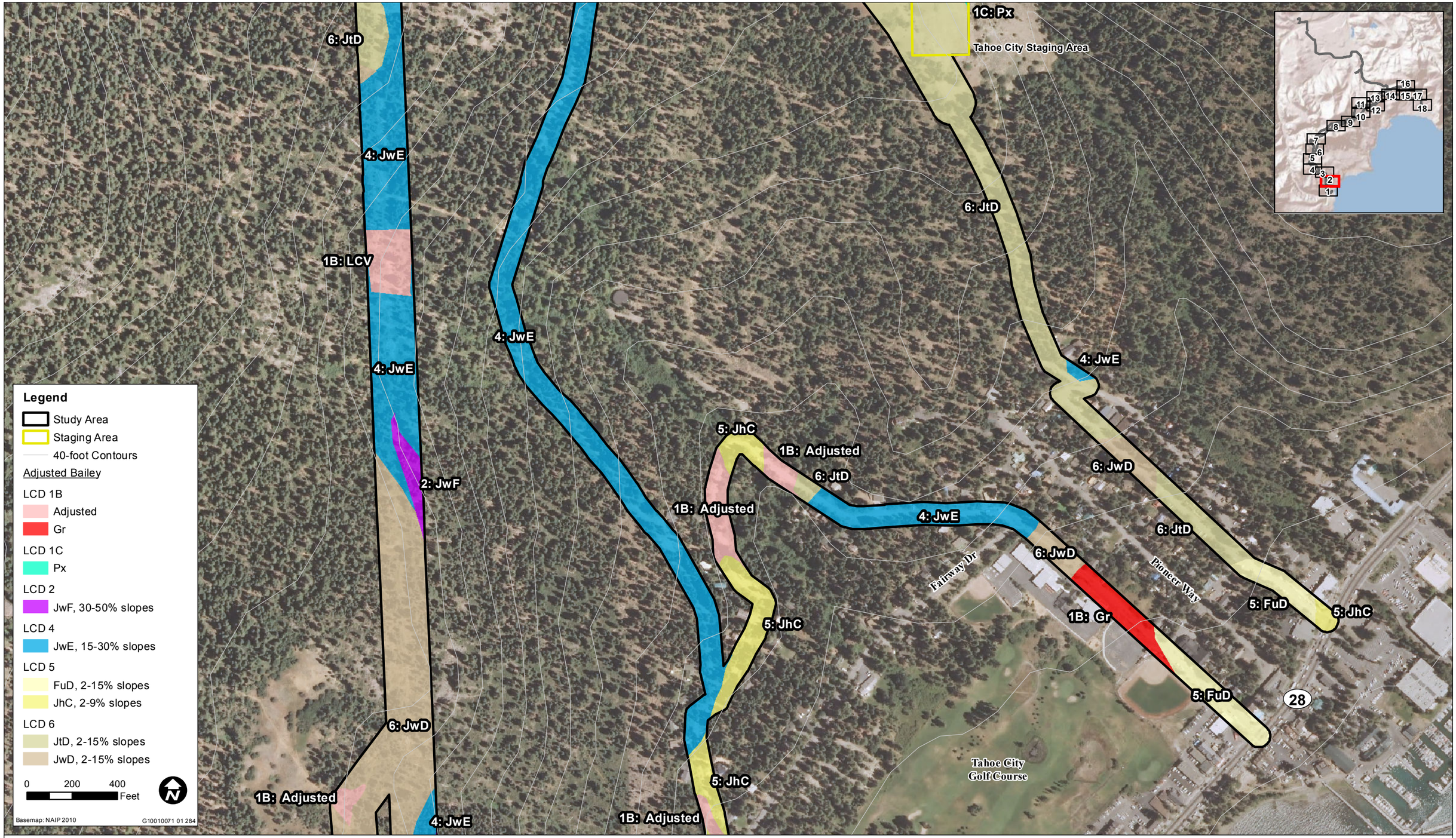


Source: Data provided by TRPA in 2012; adapted by Ascent Environmental in 2012

Adjusted Bailey - Map 1

California Pacific Electric Company
625 and 650 Electrical Line Upgrade Project EIS/EIS/EIR

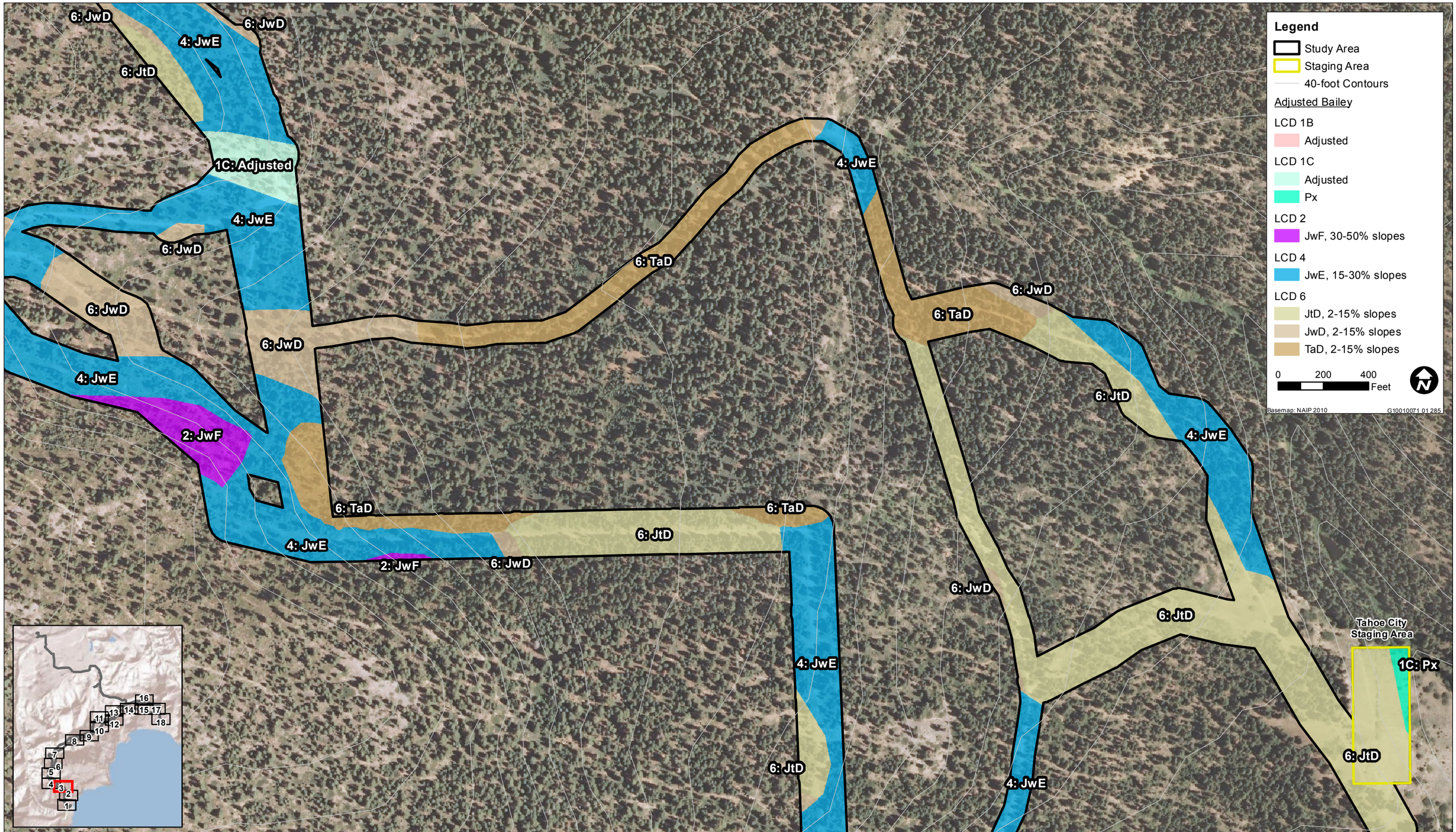
ASCENT ENVIRONMENTAL



Source: Data provided by TRPA in 2012; adapted by Ascent Environmental in 2012

Adjusted Bailey - Map 2

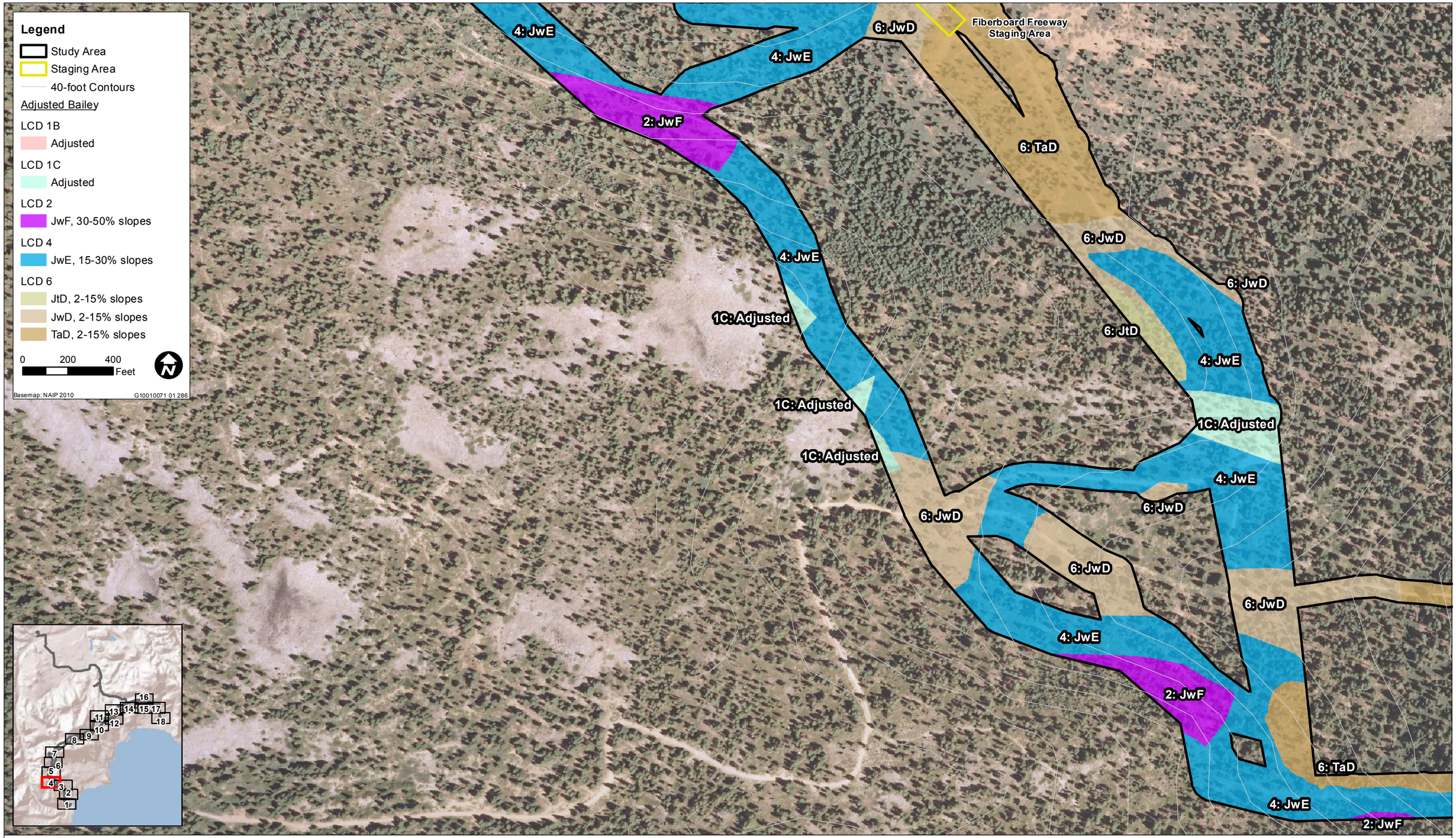
California Pacific Electric Company
625 and 650 Electrical Line Upgrade Project EIS/EIS/EIR



Source: Data provided by TRPA in 2012; adapted by Ascent Environmental in 2012

Adjusted Bailey - Map 3

California Pacific Electric Company
625 and 650 Electrical Line Upgrade Project EIS/EIS/EIR

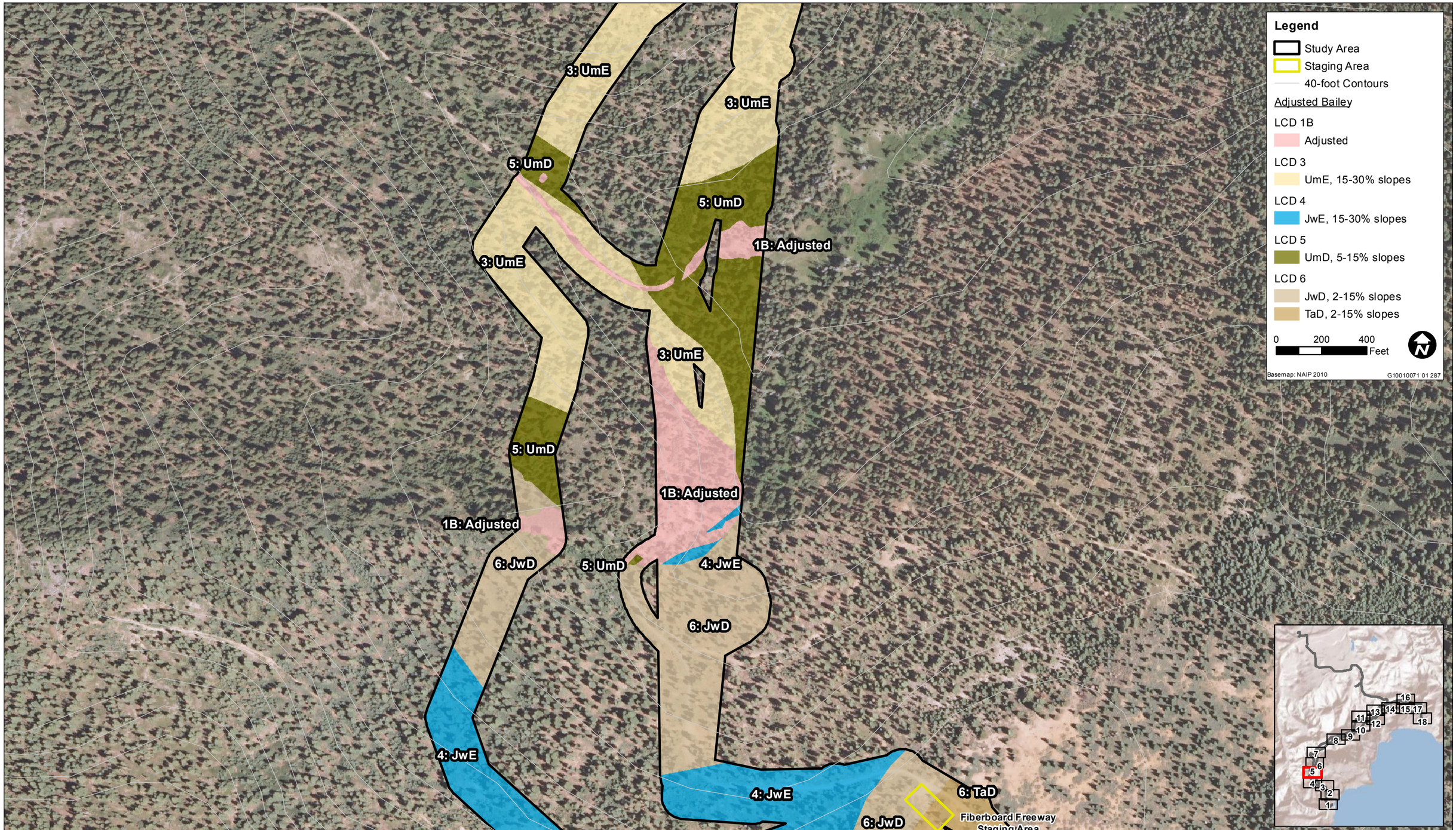


Source: Data provided by TRPA in 2012; adapted by Ascent Environmental in 2012

Adjusted Bailey - Map 4

California Pacific Electric Company
625 and 650 Electrical Line Upgrade Project EIS/EIS/EIR

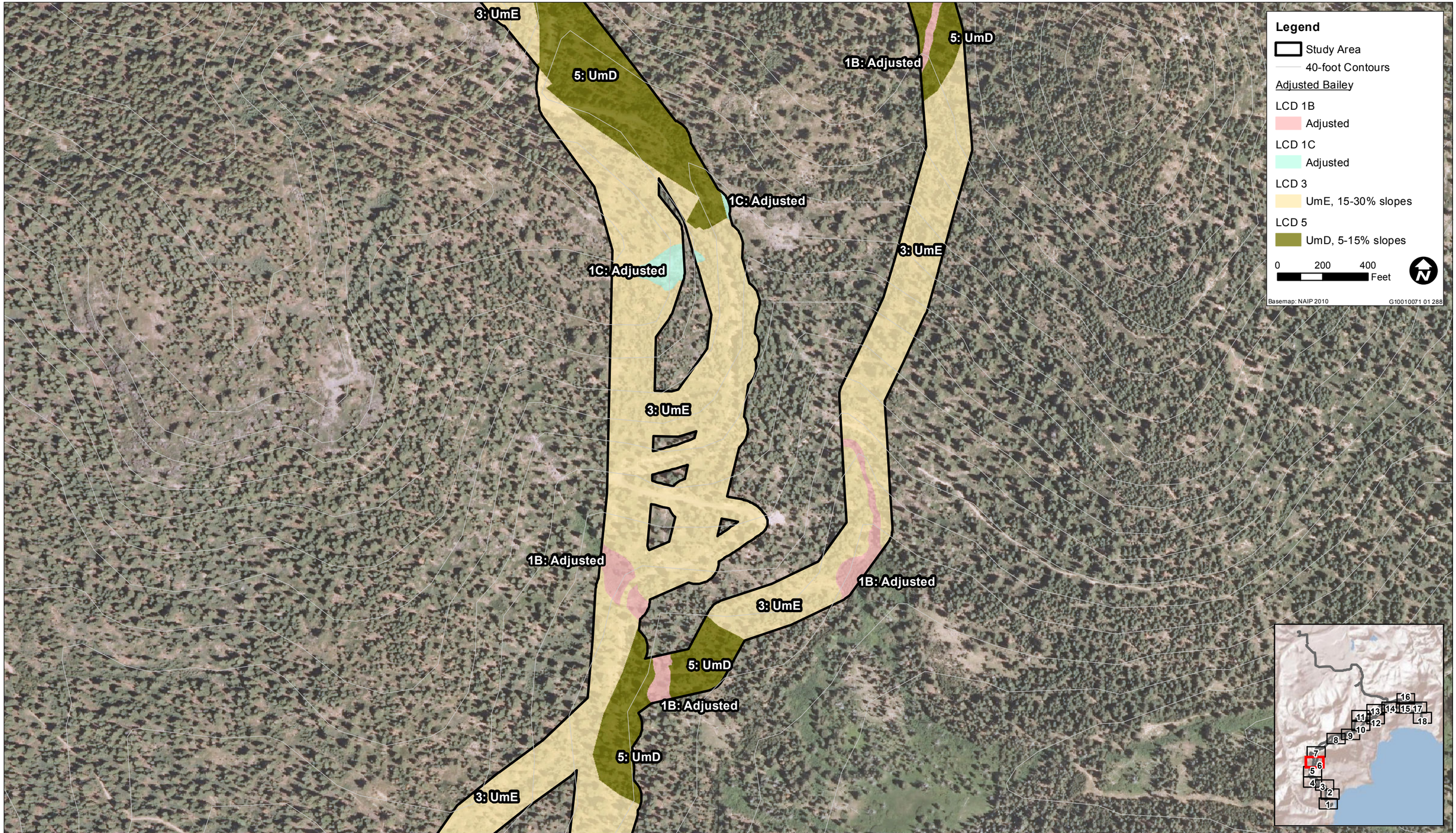
ASCENT ENVIRONMENTAL



Source: Data provided by TRPA in 2012; adapted by Ascent Environmental in 2012

Adjusted Bailey - Map 5

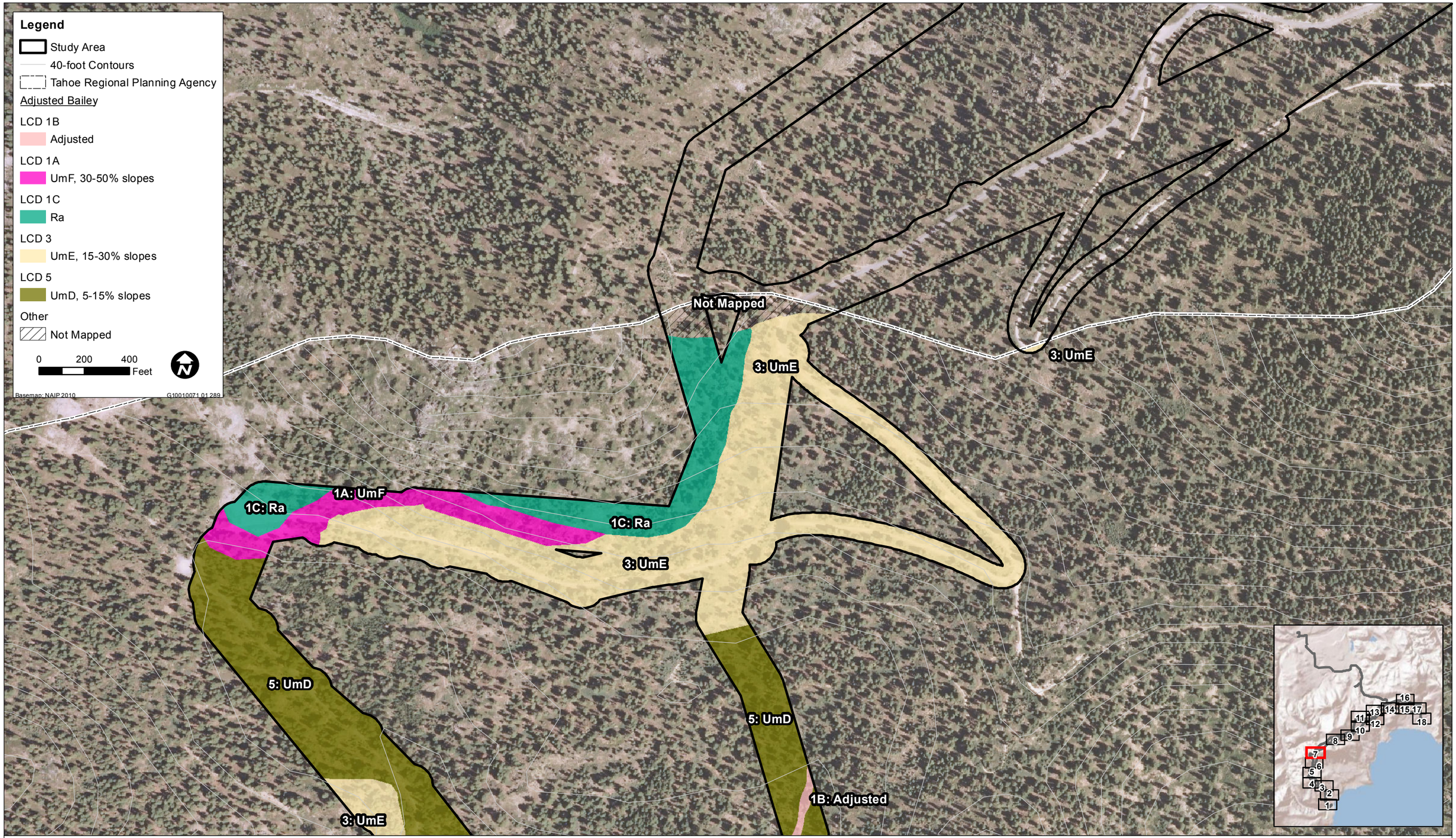
California Pacific Electric Company
625 and 650 Electrical Line Upgrade Project EIS/EIS/EIR



Source: Data provided by TRPA in 2012; adapted by Ascent Environmental in 2012

Adjusted Bailey - Map 6

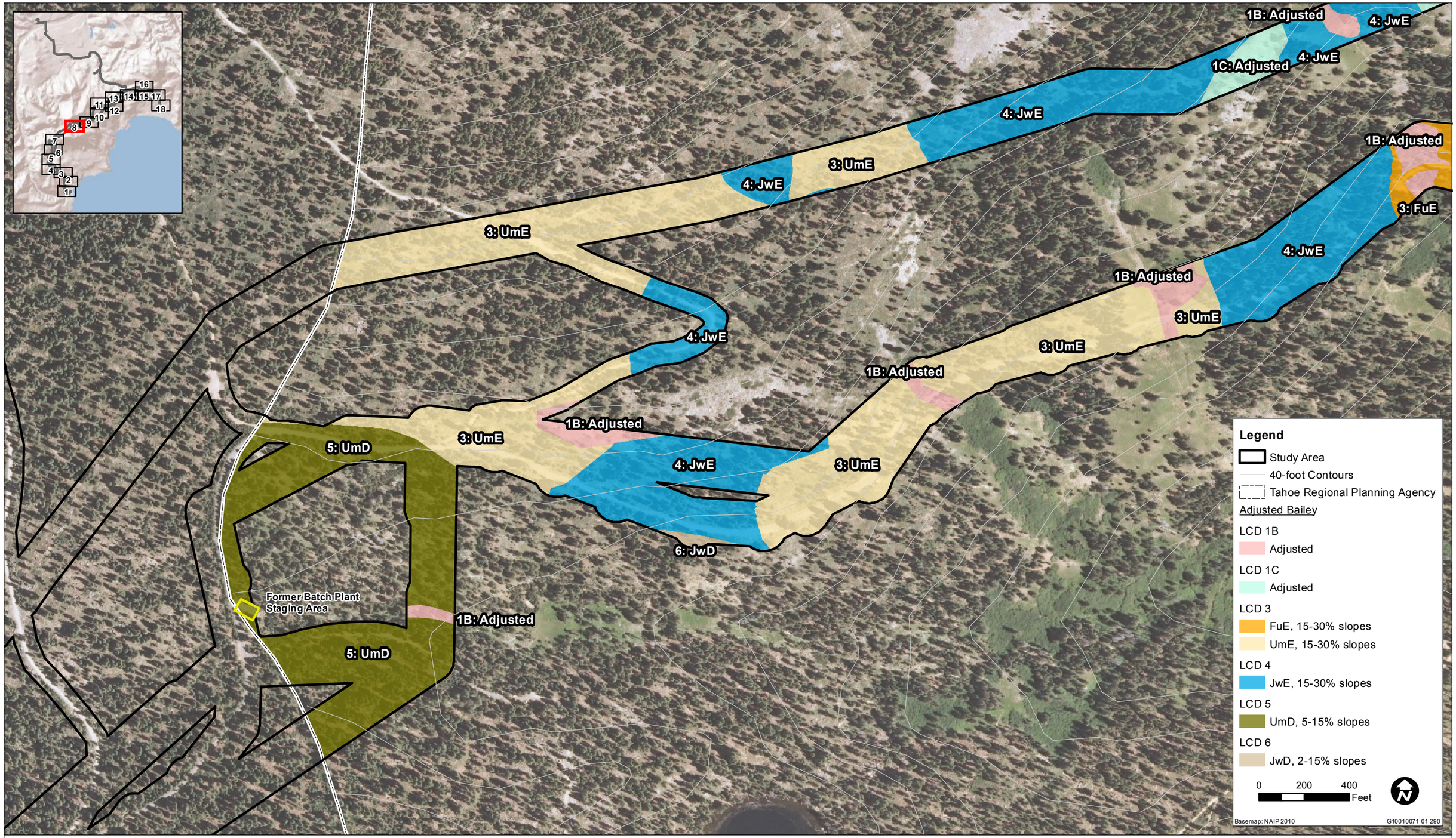
California Pacific Electric Company
625 and 650 Electrical Line Upgrade Project EIS/EIS/EIR



Source: Data provided by TRPA in 2012; adapted by Ascent Environmental in 2012

Adjusted Bailey - Map 7

California Pacific Electric Company
625 and 650 Electrical Line Upgrade Project EIS/EIS/EIR

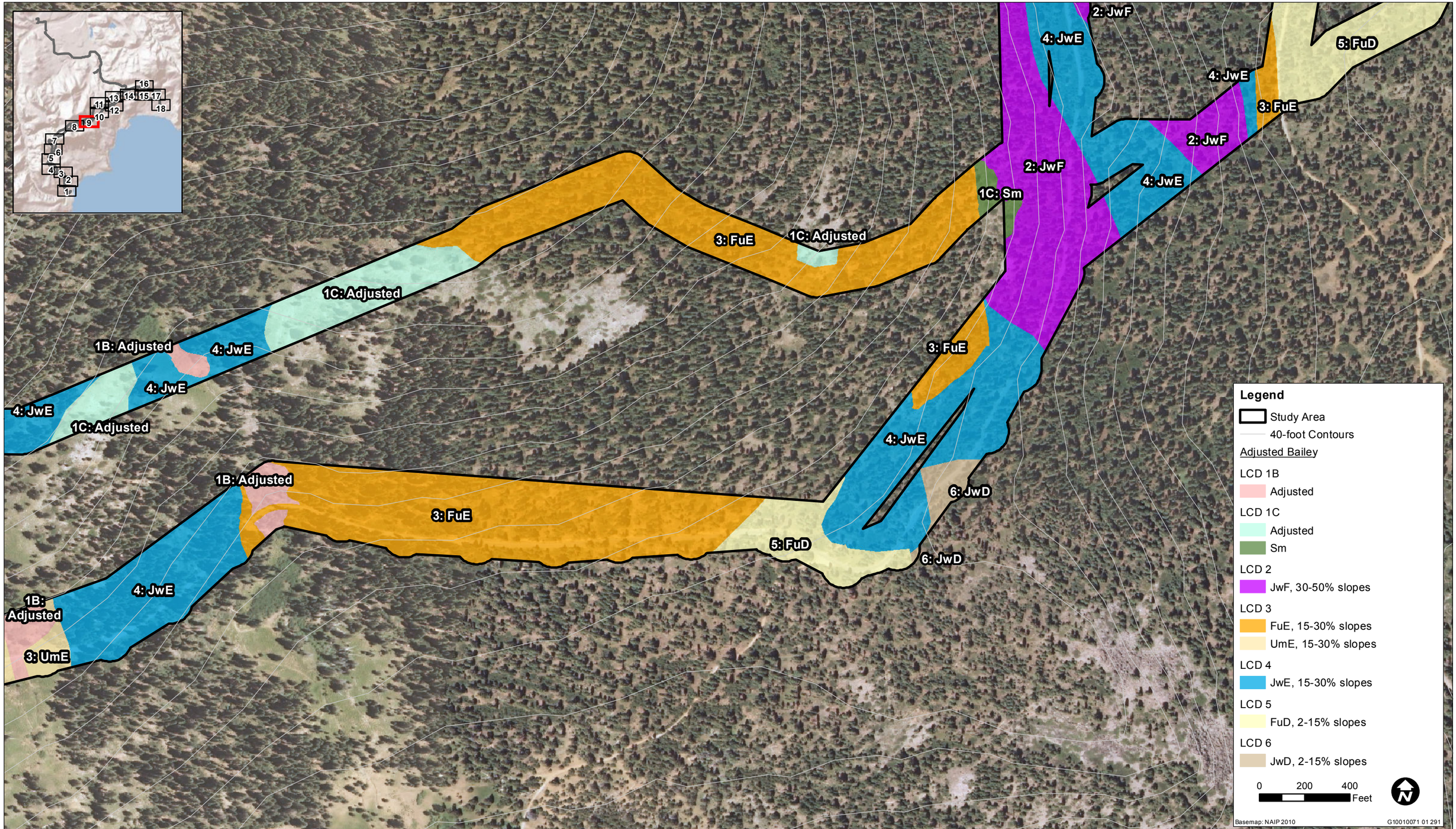


Source: Data provided by TRPA in 2012; adapted by Ascent Environmental in 2012

Adjusted Bailey - Map 8

California Pacific Electric Company
625 and 650 Electrical Line Upgrade Project EIS/EIS/EIR

ASCENT ENVIRONMENTAL

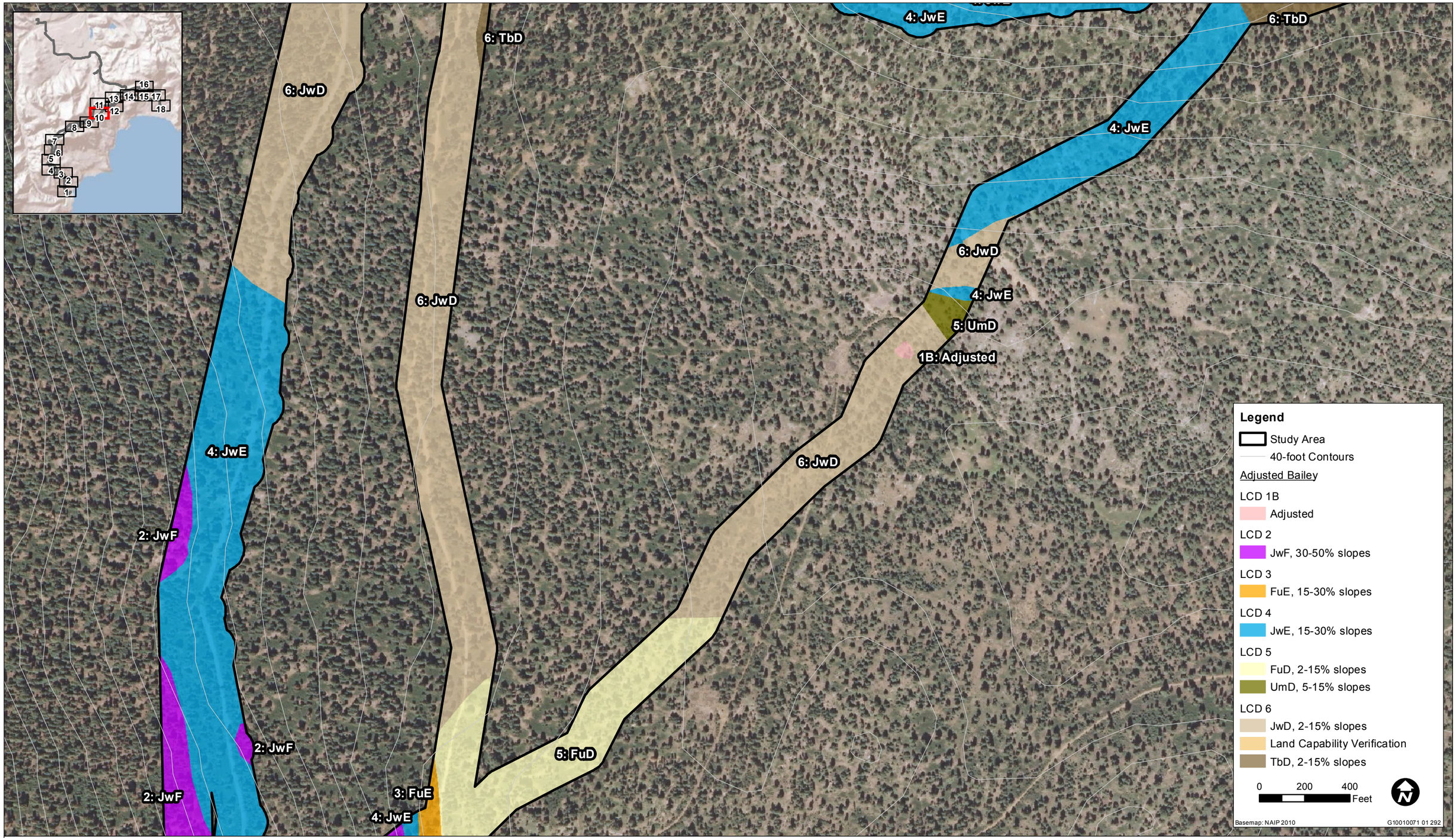


Source: Data provided by TRPA in 2012; adapted by Ascent Environmental in 2012

Adjusted Bailey - Map 9

California Pacific Electric Company
625 and 650 Electrical Line Upgrade Project EIS/EIS/EIR

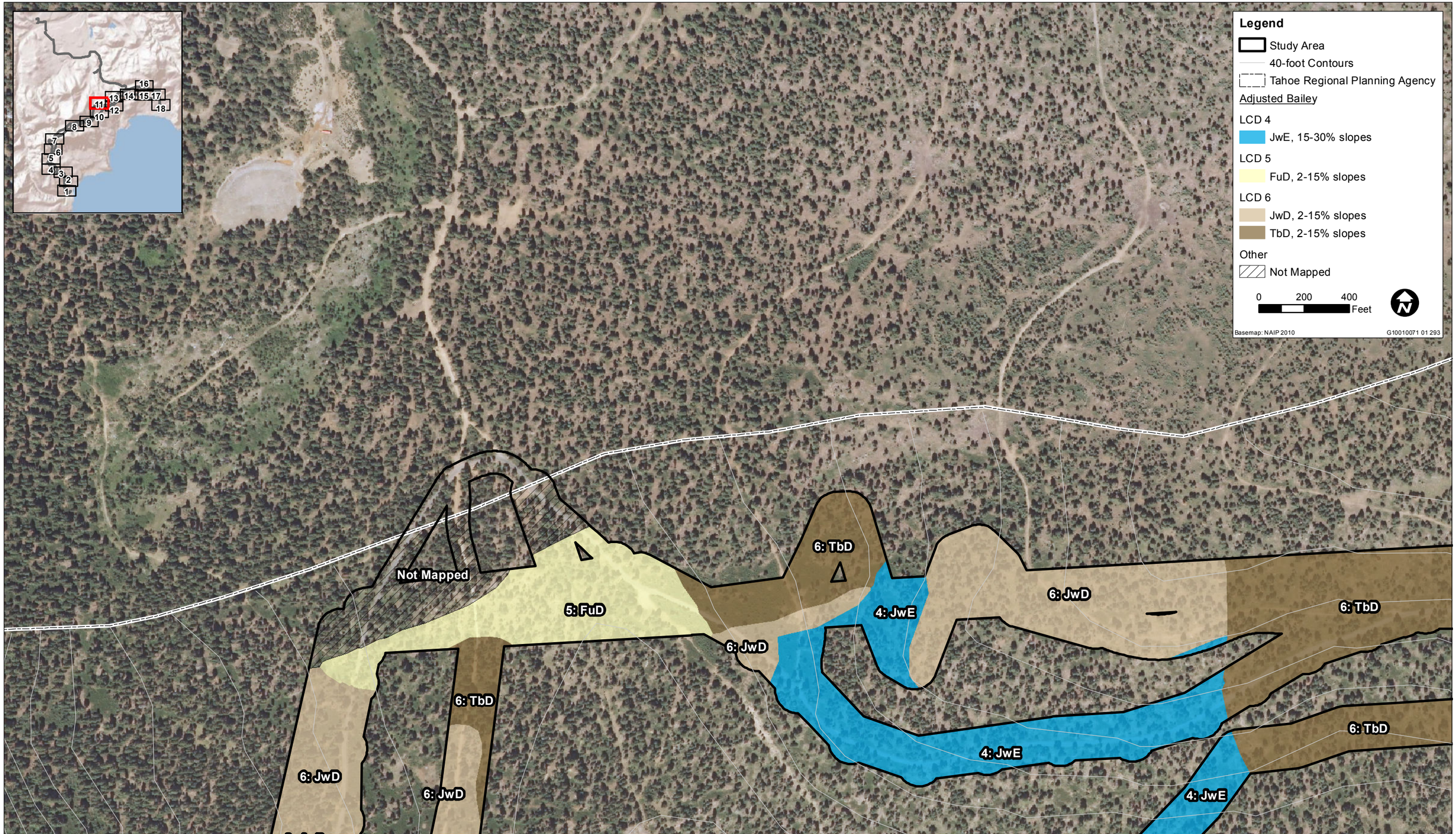
ASCENT ENVIRONMENTAL



Source: Data provided by TRPA in 2012; adapted by Ascent Environmental in 2012

Adjusted Bailey - Map 10

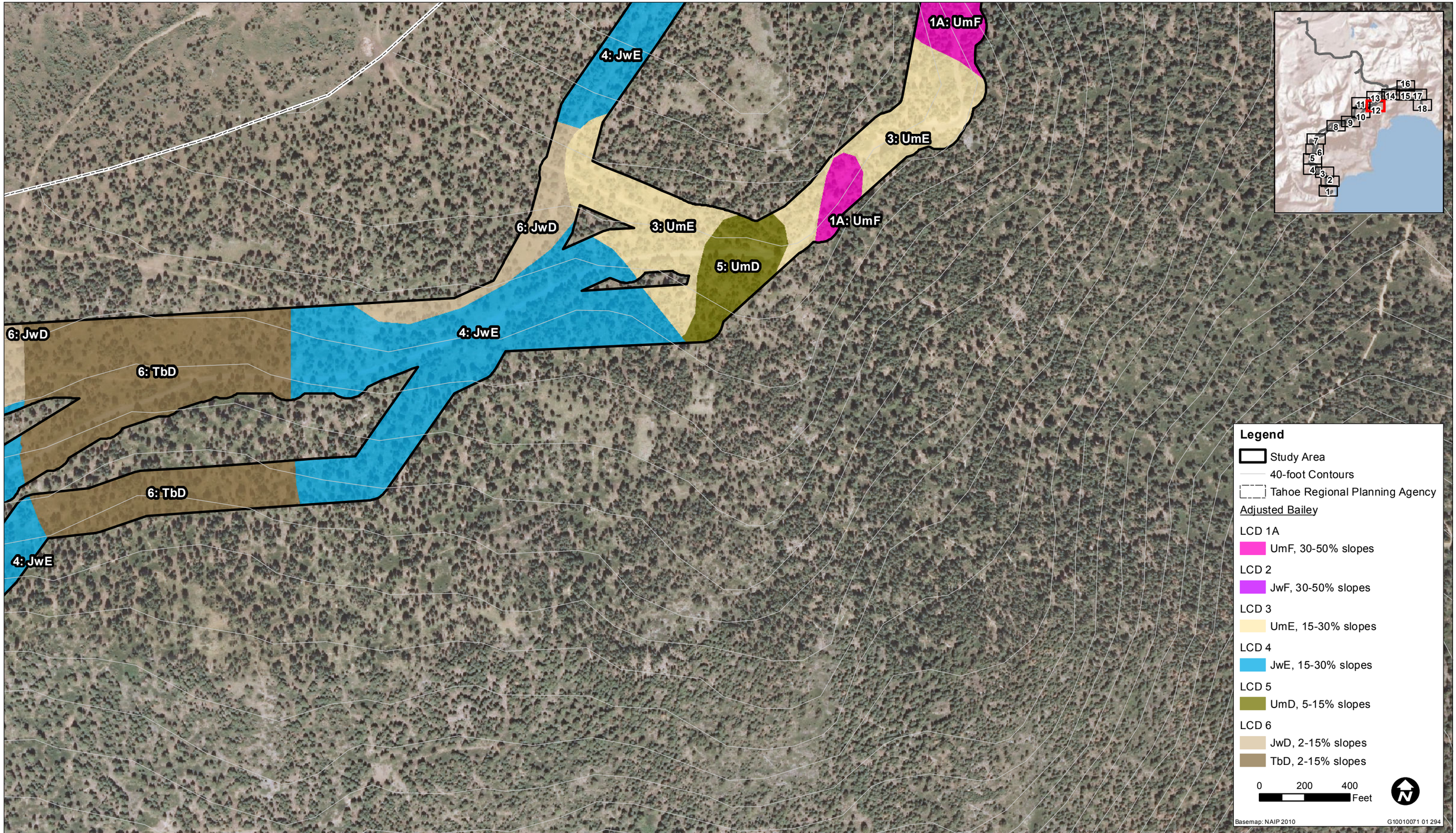
California Pacific Electric Company
625 and 650 Electrical Line Upgrade Project EIS/EIS/EIR



Source: Data provided by TRPA in 2012; adapted by Ascent Environmental in 2012

Adjusted Bailey - Map 11

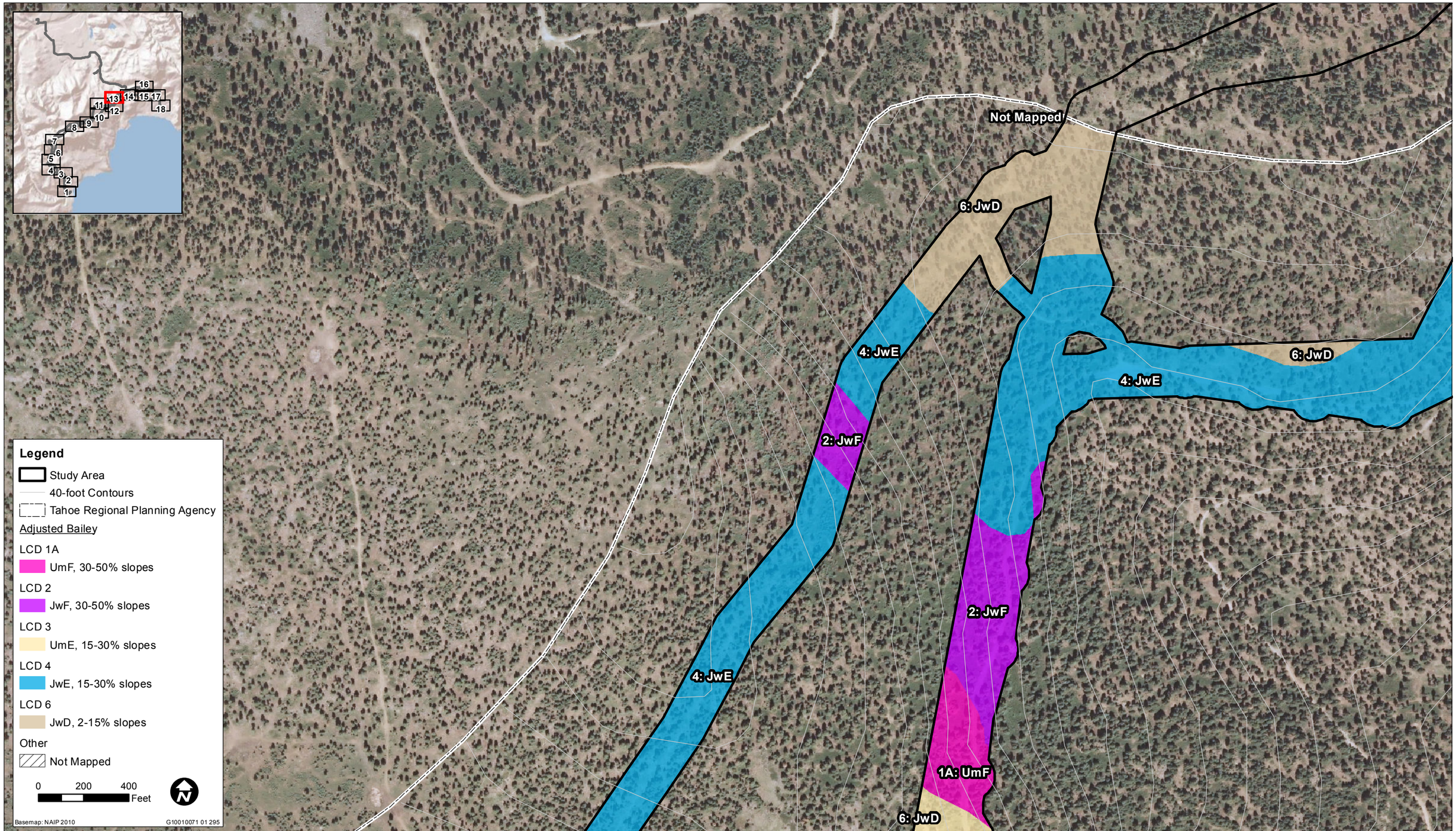
California Pacific Electric Company
625 and 650 Electrical Line Upgrade Project EIS/EIS/EIR



Source: Data provided by TRPA in 2012; adapted by Ascent Environmental in 2012

Adjusted Bailey - Map 12

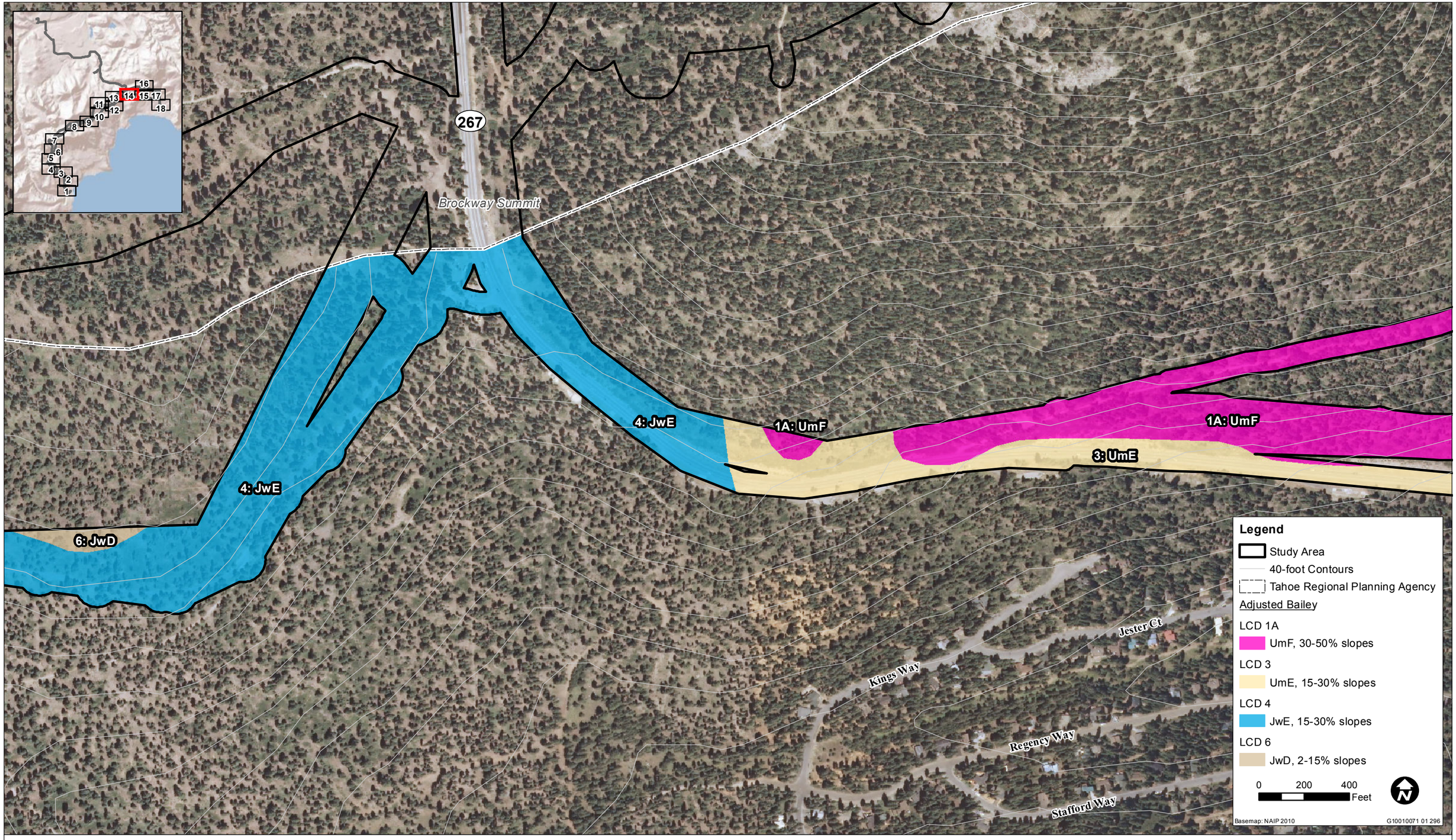
California Pacific Electric Company
625 and 650 Electrical Line Upgrade Project EIS/EIS/EIR



Source: Data provided by TRPA in 2012; adapted by Ascent Environmental in 2012

Adjusted Bailey - Map 13

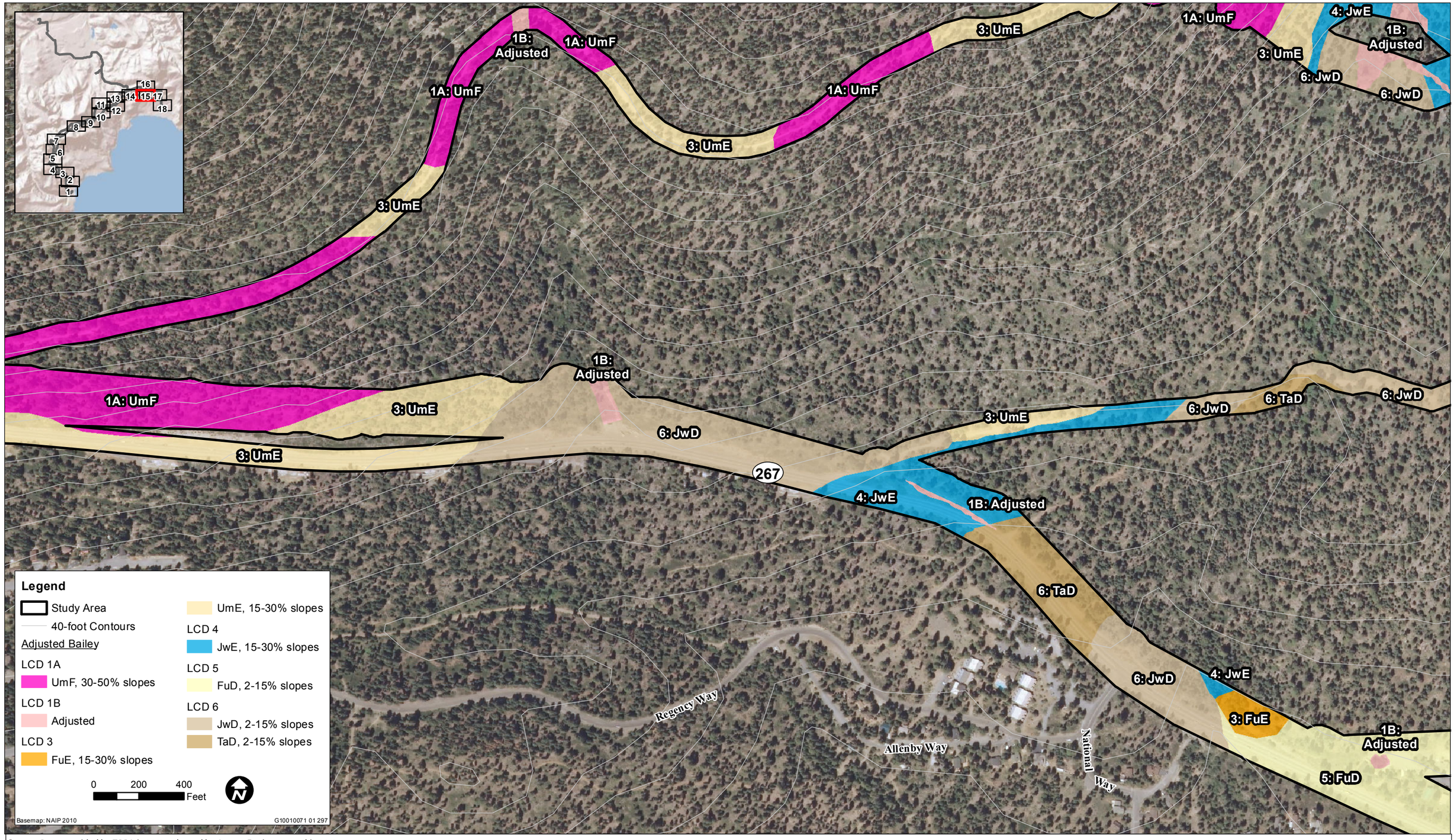
California Pacific Electric Company
625 and 650 Electrical Line Upgrade Project EIS/EIS/EIR



Source: Data provided by TRPA in 2012; adapted by Ascent Environmental in 2012

Adjusted Bailey - Map 14

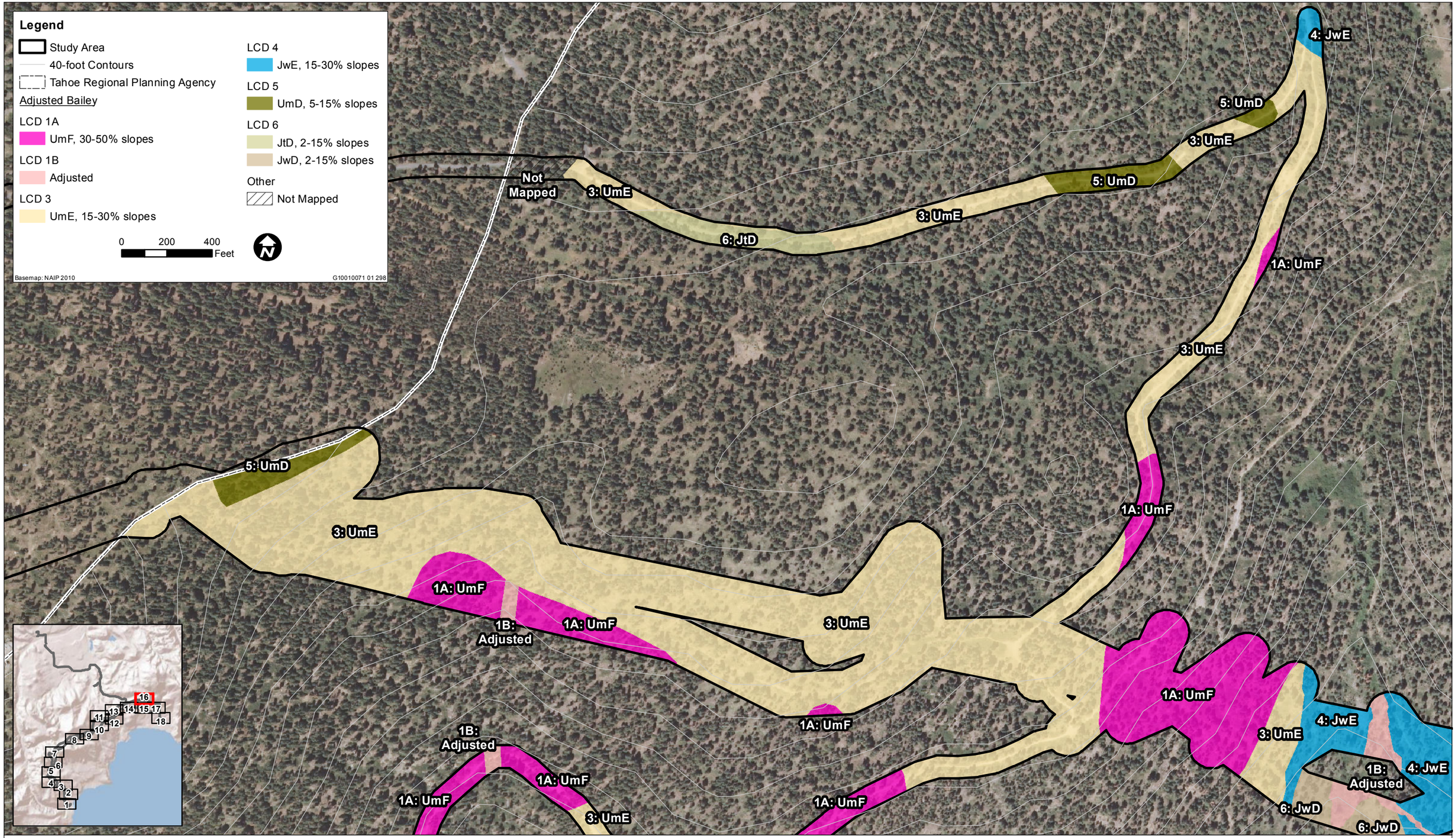
California Pacific Electric Company
625 and 650 Electrical Line Upgrade Project EIS/EIS/EIR



Source: Data provided by TRPA in 2012; adapted by Ascent Environmental in 2012

Adjusted Bailey - Map 15

California Pacific Electric Company
625 and 650 Electrical Line Upgrade Project EIS/EIS/EIR

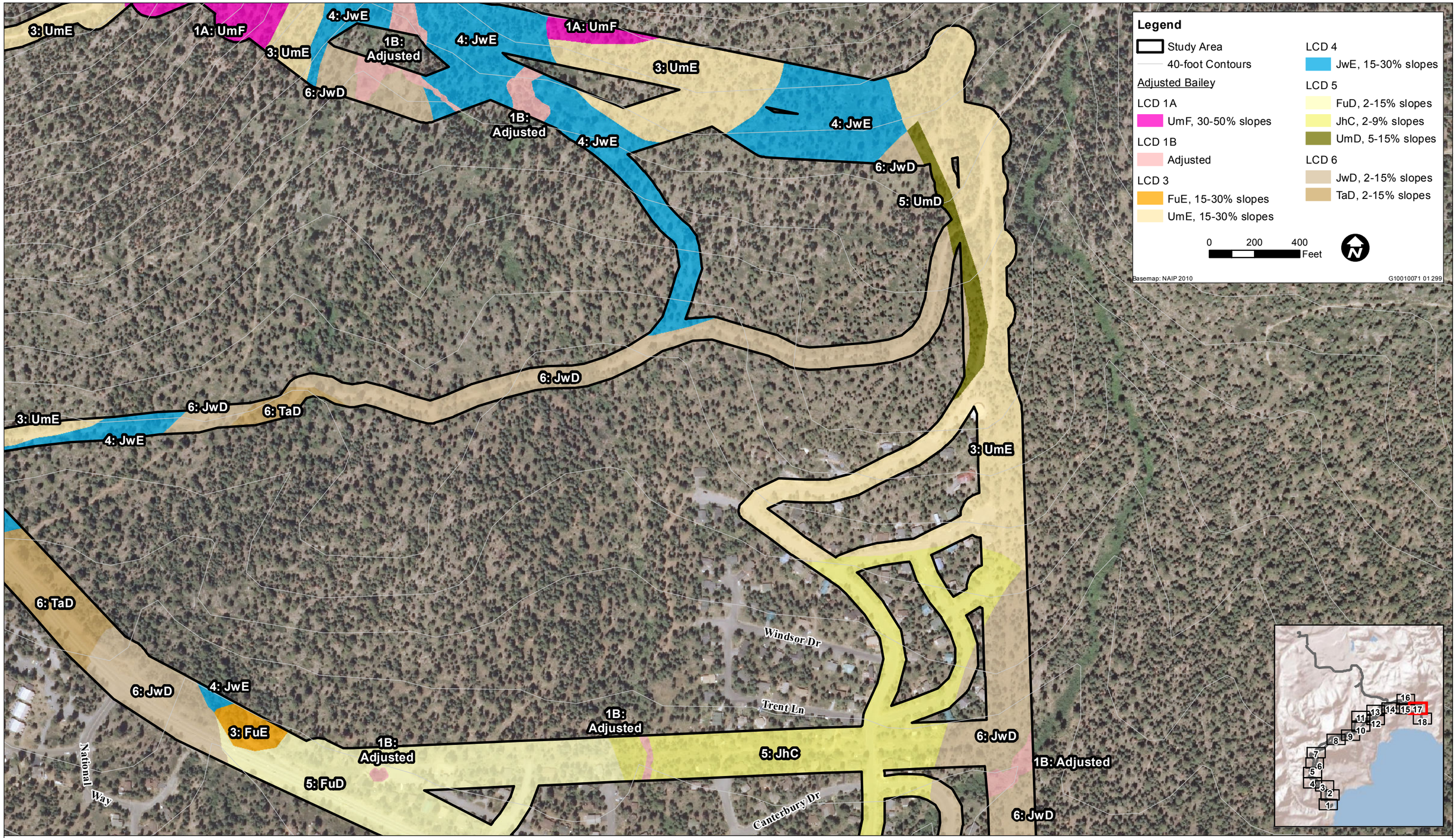


Source: Data provided by TRPA in 2012; adapted by Ascent Environmental in 2012

Adjusted Bailey - Map 16

California Pacific Electric Company
625 and 650 Electrical Line Upgrade Project EIS/EIS/EIR

ASCENT ENVIRONMENTAL

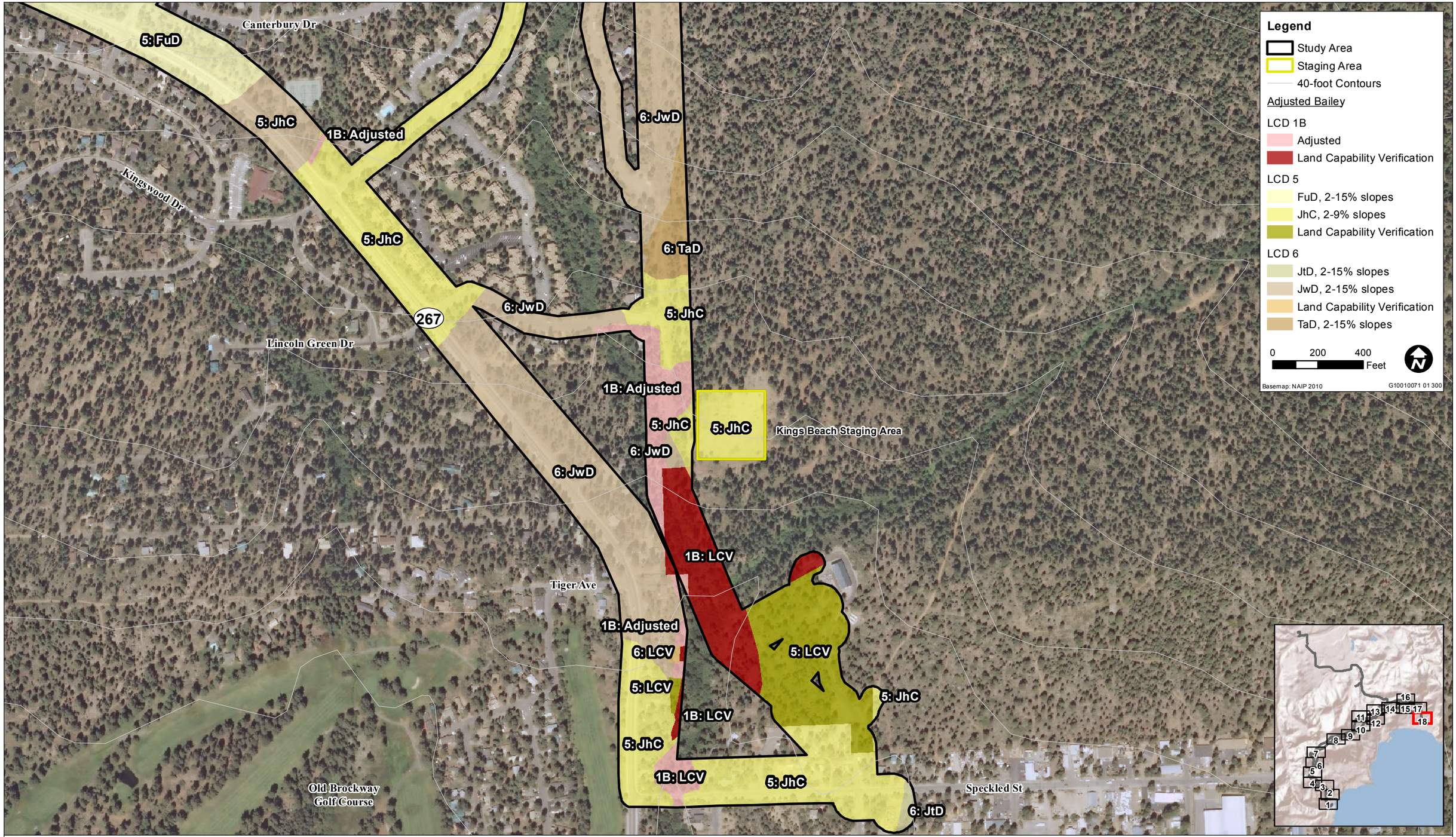


Source: Data provided by TRPA in 2012; adapted by Ascent Environmental in 2012

Adjusted Bailey - Map 17

California Pacific Electric Company
625 and 650 Electrical Line Upgrade Project EIS/EIS/EIR

ASCENT ENVIRONMENTAL



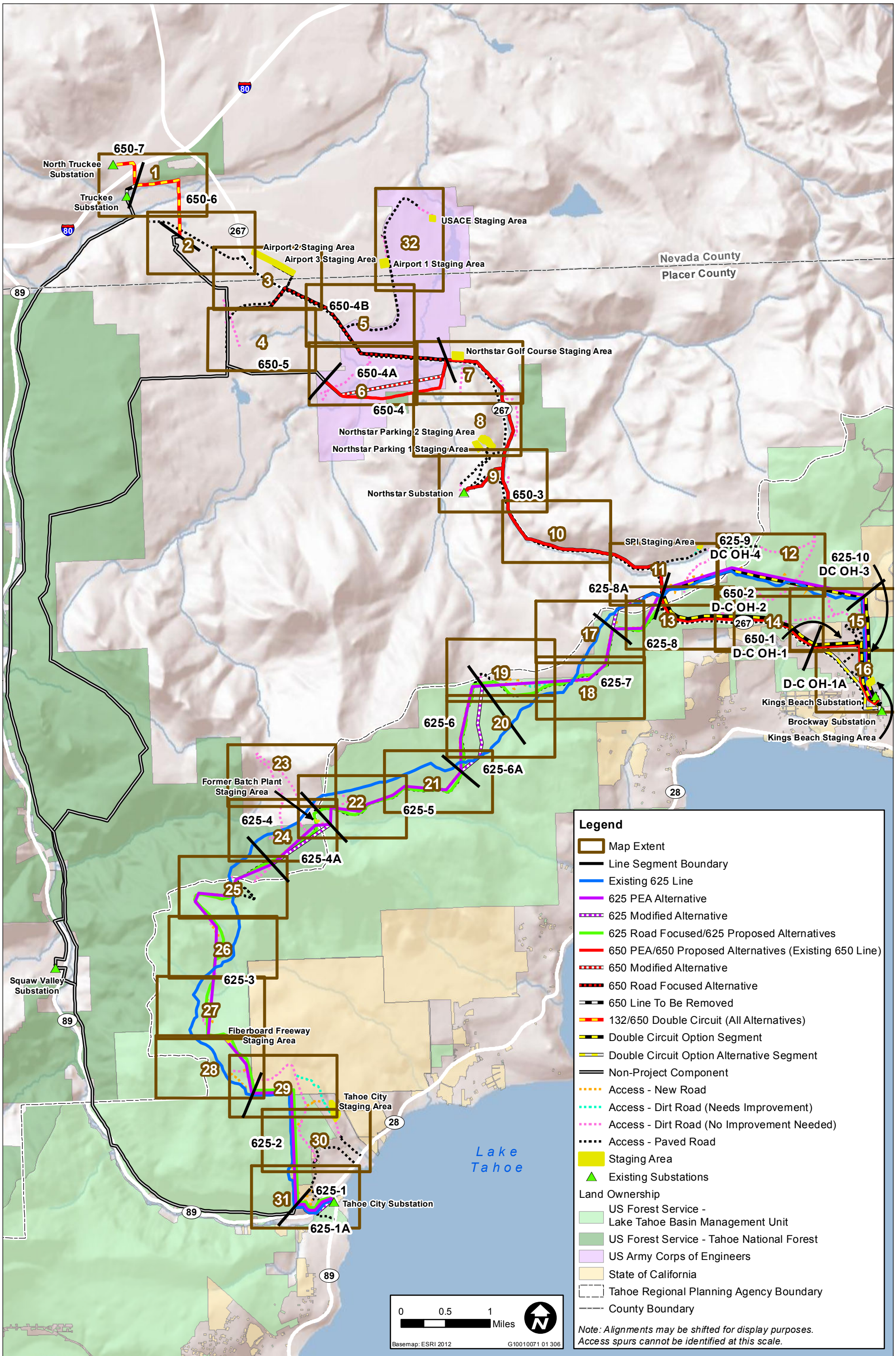
Source: Data provided by TRPA in 2012; adapted by Ascent Environmental in 2012

Adjusted Bailey - Map 18

California Pacific Electric Company
625 and 650 Electrical Line Upgrade Project EIS/EIS/EIR

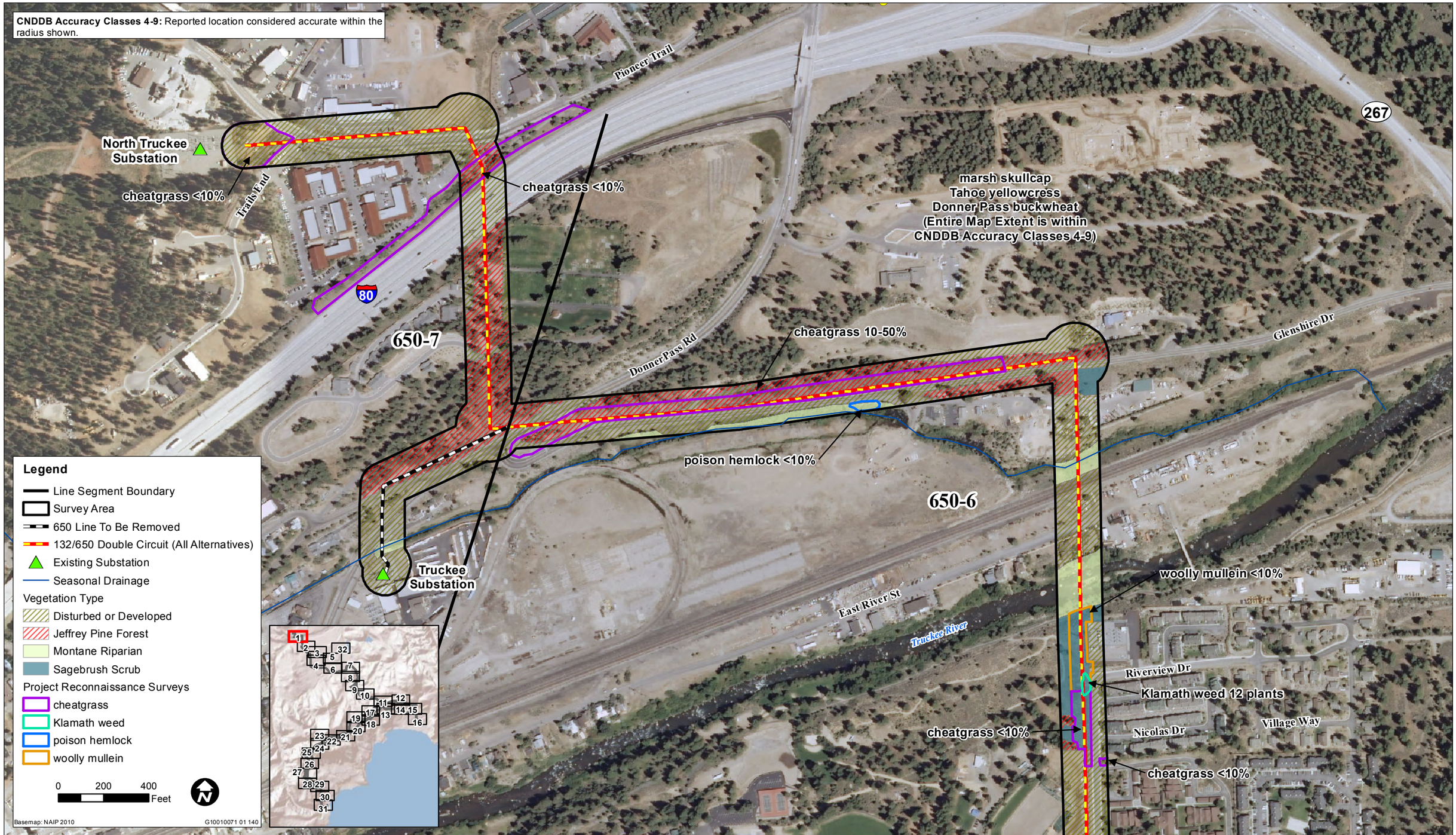
Appendix K

Vegetation Maps



Source: Data received from TriSage 2012; Adapted by Ascent Environmental in 2013

Exhibit 4.7-1 Vegetation Map Layout



Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 1

650-6

cheatgrass 10-50%
woolly mullein <10%

Estates Dr

cheatgrass <10%

Brockway Rd

marsh skullcap
Tahoe yellowcress
Donner Pass buckwheat

Winter Creek Loop

Ponderosa Golf Course

Brockway Rd

650-5

267

Airport 2 Staging Area

Legend

- Line Segment Boundary
- Survey Area
- 132/650 Double Circuit (All Alternatives)
- Non-Project Component
- Access - Paved Road
- Staging Area
- Seasonal Drainage

CNDDB Occurrences

- Plant - Accuracy Classes 4-9

Vegetation Type

- Disturbed or Developed
- Dry Montane Meadow
- Jeffrey Pine Forest
- Montane Riparian
- Open Water
- Sagebrush Scrub
- Seasonal Wetland
- Wet Montane Meadow

Project Reconnaissance Surveys

- cheatgrass
- woolly mullein

0 200 400 Feet

Basemap: NAIP 2010

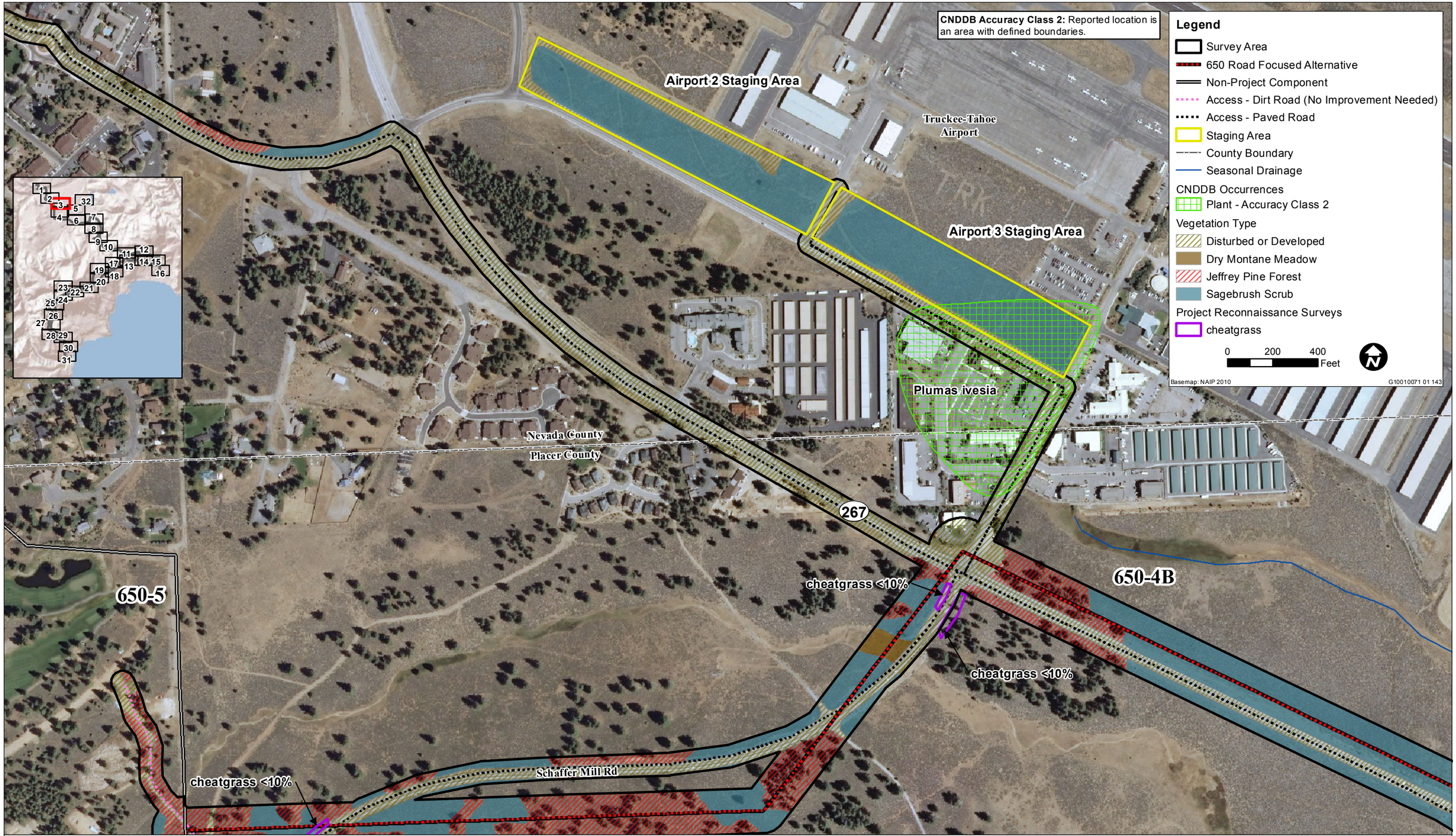
G10010071 01 142

CNDDB Accuracy Classes 4-9: Reported location considered accurate within the radius shown.

Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 2

ASCENT ENVIRONMENTAL



Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

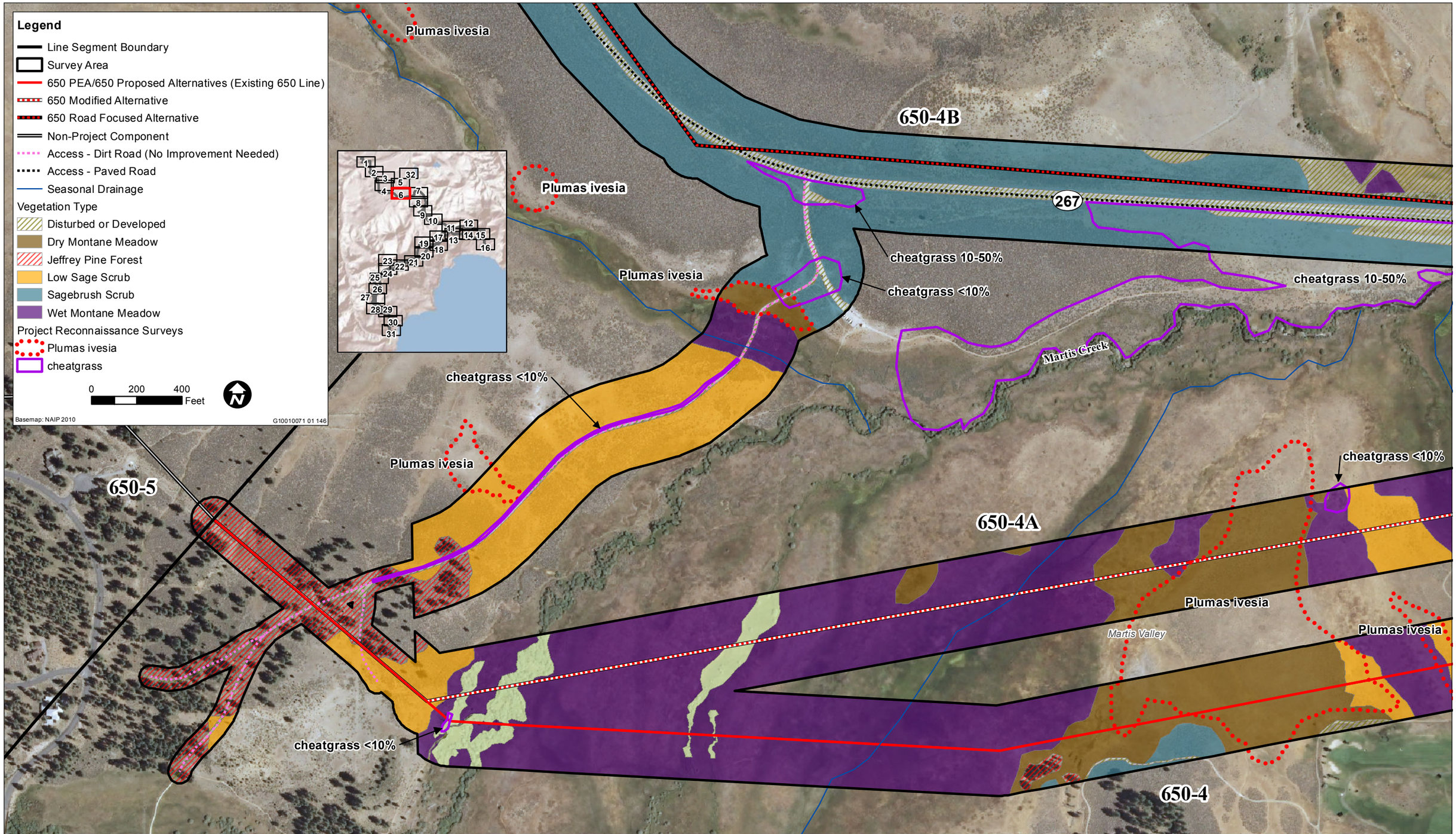
Vegetation - Map 3

Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 4

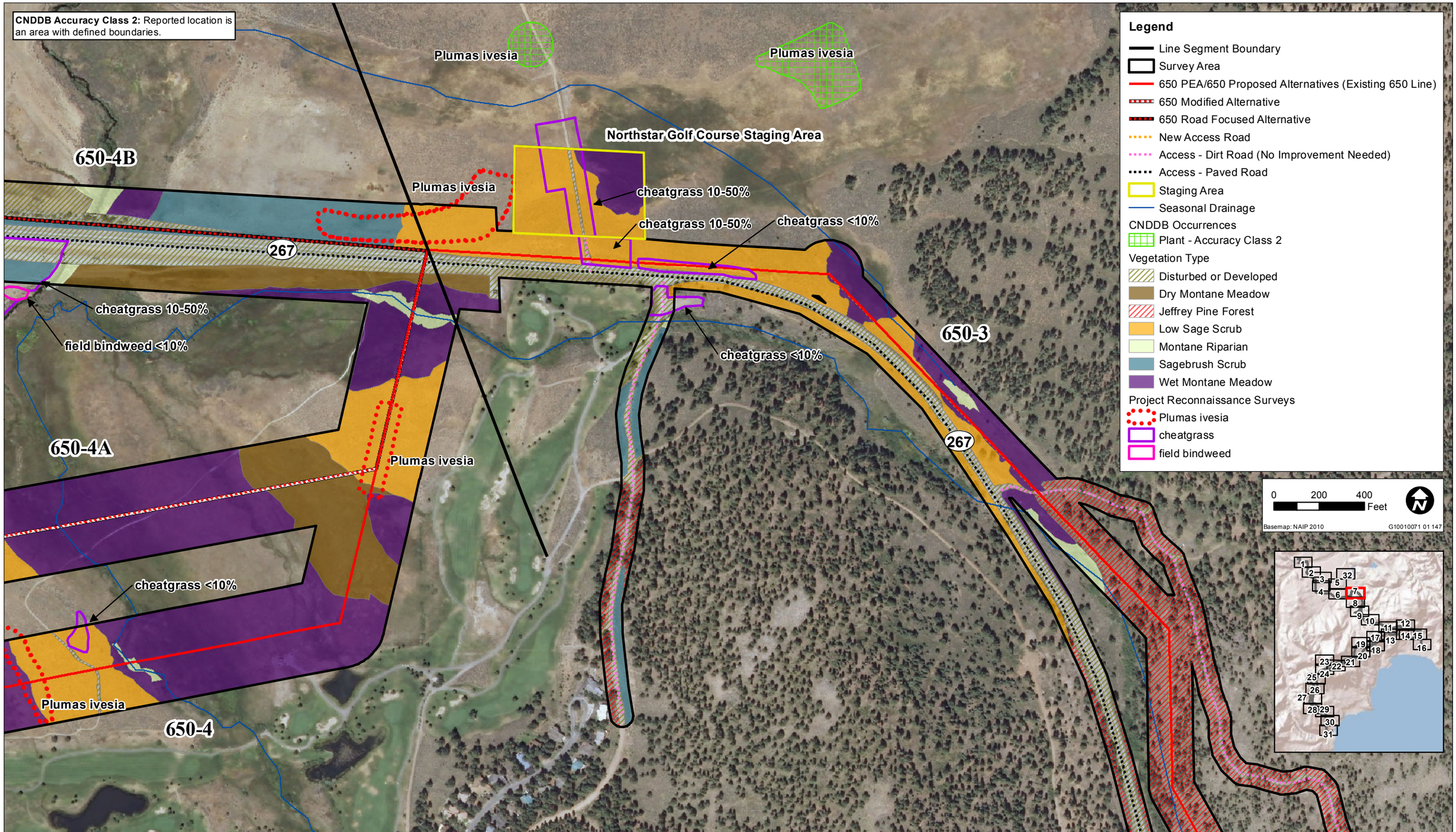
Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 5



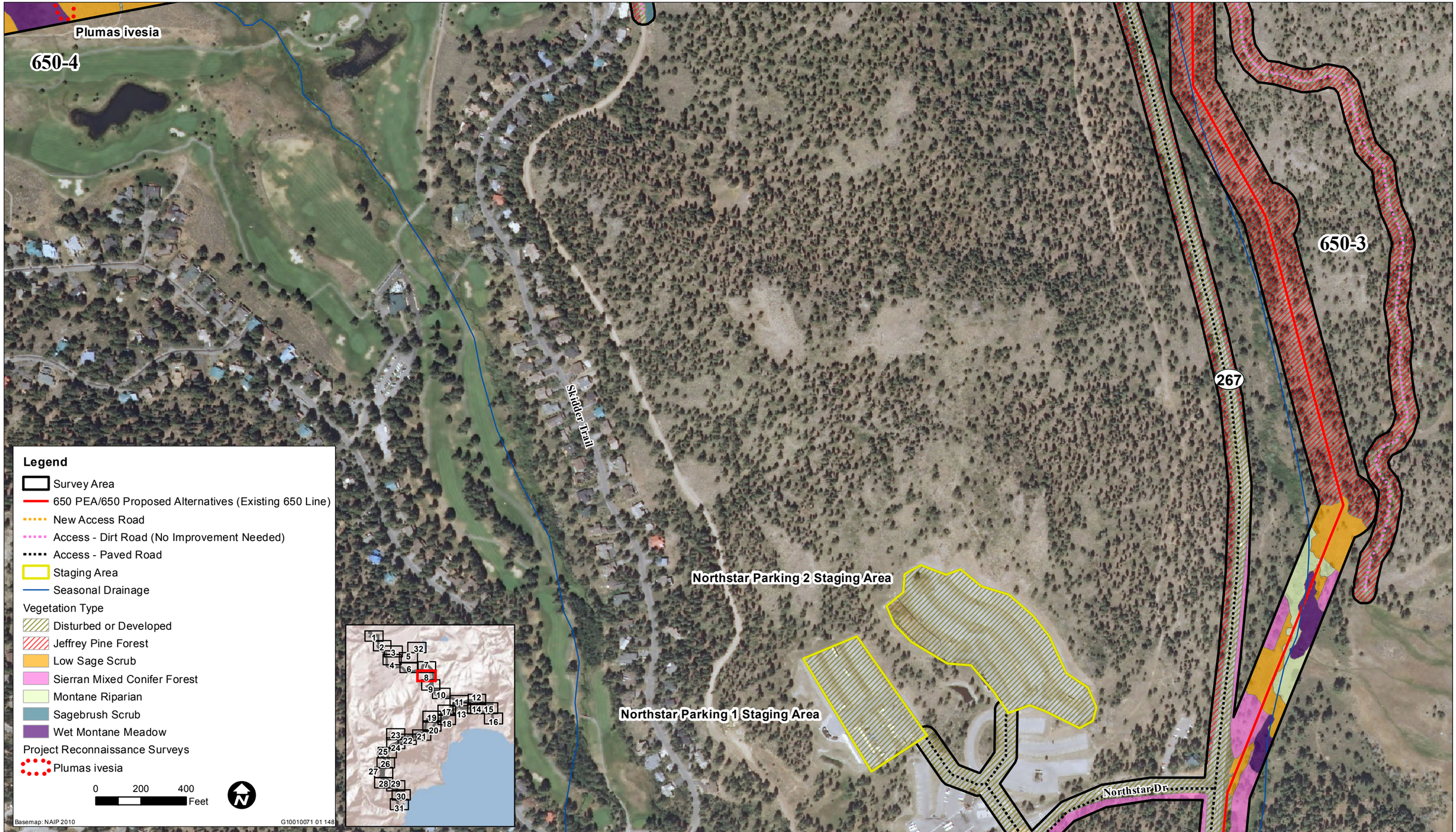
Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 6



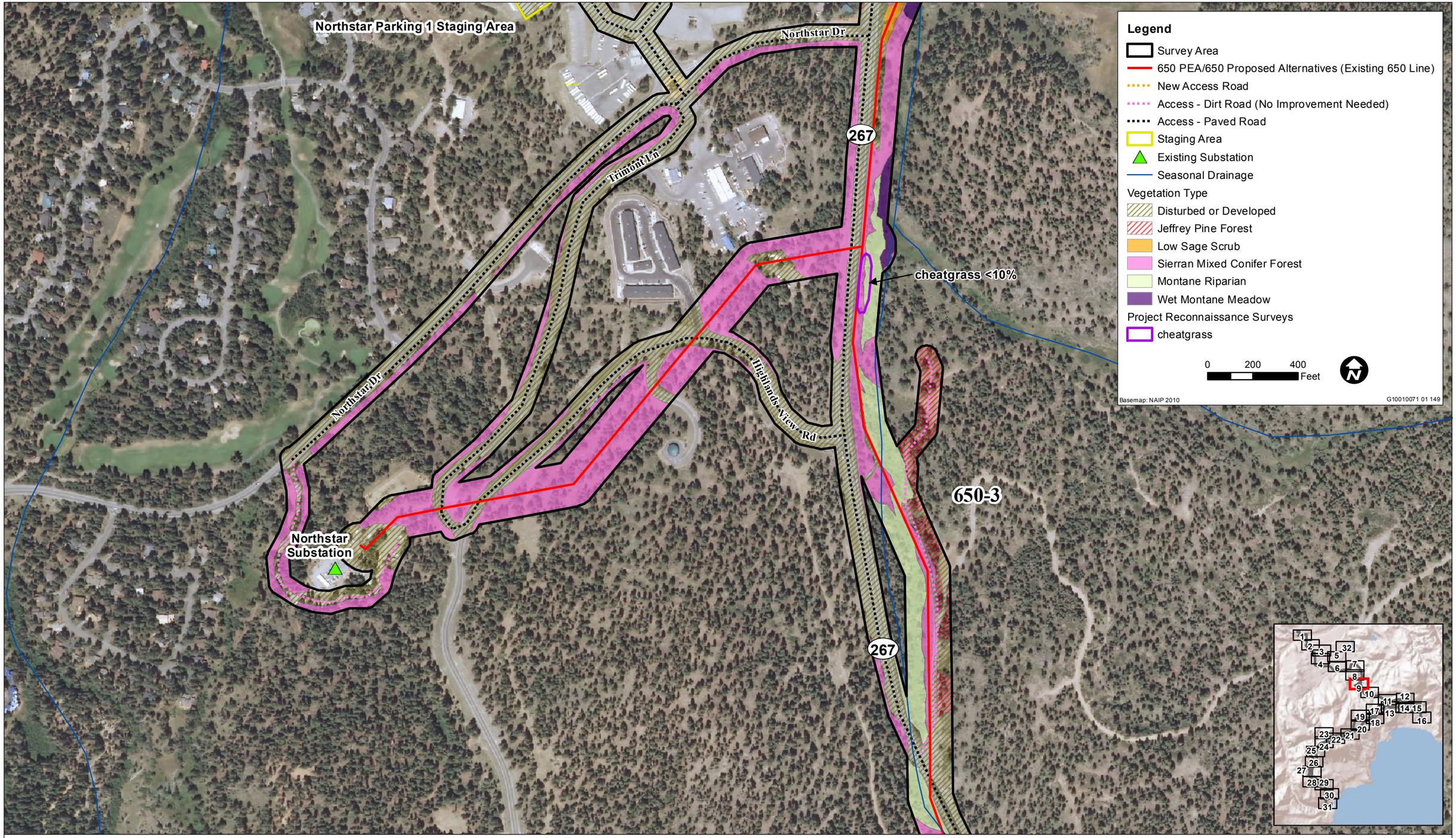
Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 7



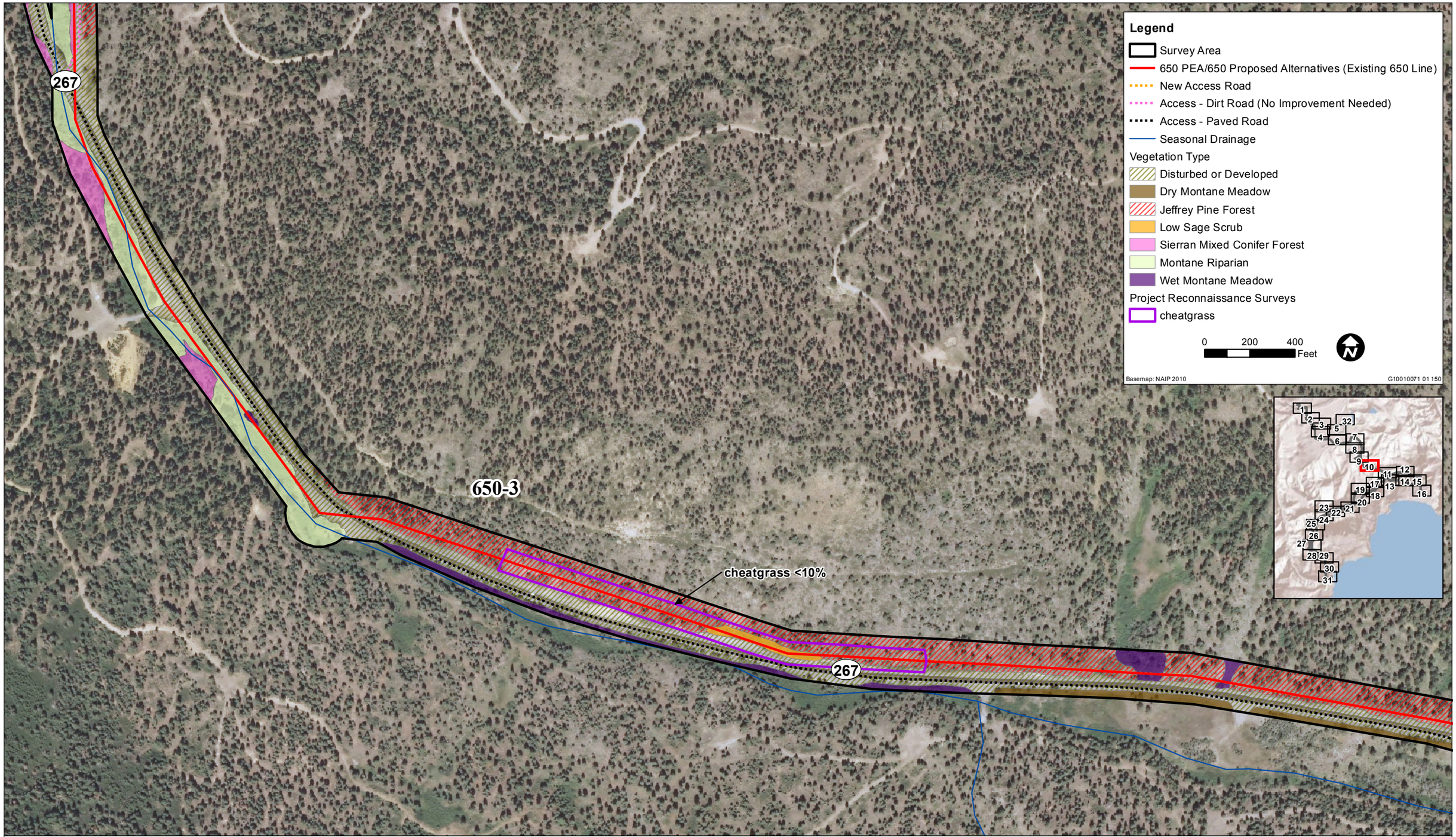
Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 8



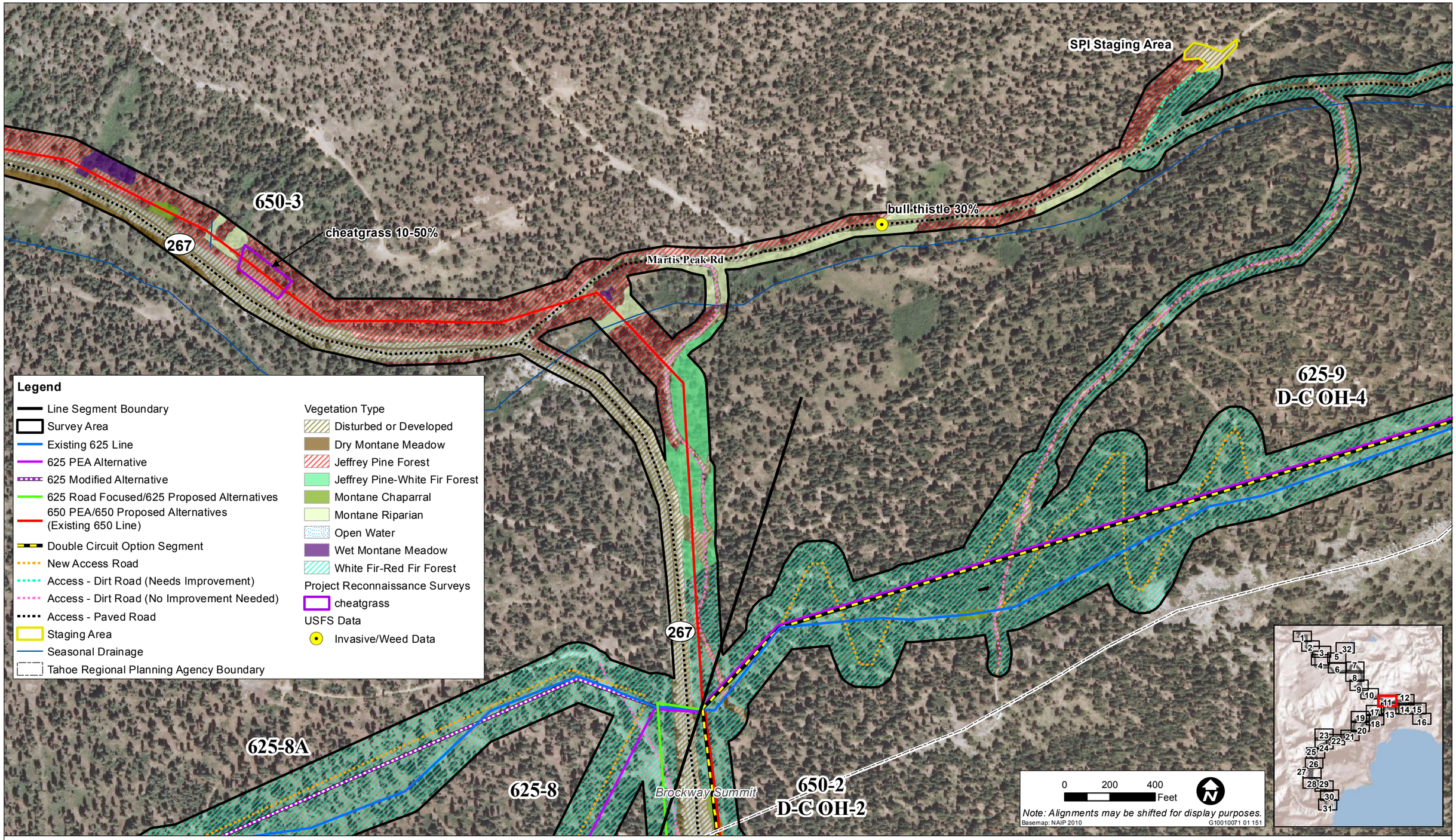
Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 9



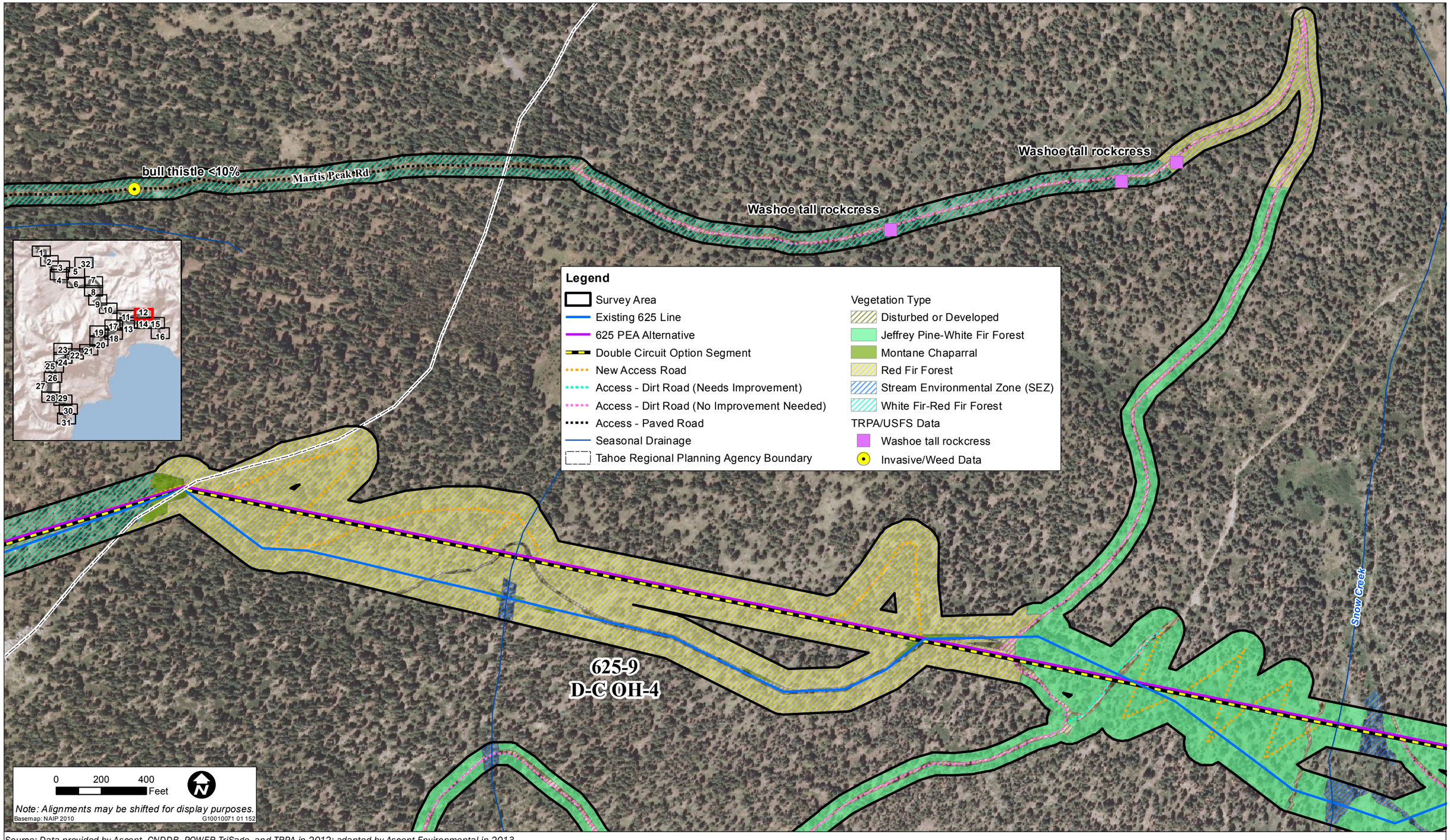
Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 10



Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 11



Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 12

625-8A

625-9
D-C OH-4

267

Brockway Summit

650-2
D-C OH-2

cheatgrass <10%

Klamath weed <50%

267

bull thistle <50%

625-8

Legend

- Line Segment Boundary
- Survey Area
- Existing 625 Line
- 625 PEA Alternative
- 625 Modified Alternative
- 625 Road Focused/625 Proposed Alternatives
- 650 PEA/650 Proposed Alternatives (Existing 650 Line)
- Double Circuit Option Segment
- New Access Road
- Access - Dirt Road (Needs Improvement)
- Access - Dirt Road (No Improvement Needed)
- Access - Paved Road
- Tahoe Regional Planning Agency Boundary

Vegetation Type
- Disturbed or Developed
- Jeffrey Pine-White Fir Forest
- Montane Chaparral
- White Fir-Red Fir Forest

USFS Data
- Invasive/Weed Data

Project Reconnaissance Surveys
- cheatgrass

0 200 400 Feet

Note: Alignments may be shifted for display purposes.

Basemap: NAIP 2010

G10010071 01 153

Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 13

ASCENT ENVIRONMENTAL

625-9
D-C OH-4

cheatgrass <10%

cheatgrass <10%

bull thistle <50%

267

broadleaved pepperweed 10-50%

Dyer's woad >50%

650-2
D-C OH-2

cheatgrass <10%

Snow Creek

Regency Way

Allenby Way

National Ave

267

650-1
D-C OH-1

D-C OH-1A

Legend

- Line Segment Boundary
- Survey Area
- Existing 625 Line
- 625 PEA Alternative
- 650 PEA/650 Proposed Alternatives (Existing 650 Line)
- Double Circuit Option Segment
- New Access Road
- Access - Dirt Road (No Improvement Needed)
- Access - Paved Road
- Seasonal Drainage

Vegetation Type

- Disturbed or Developed
- Jeffrey Pine-White Fir Forest
- Sierran Mixed Conifer Forest
- Montane Chaparral
- Stream Environmental Zone (SEZ)

USFS Data

- Invasive/Weed Data

Project Reconnaissance Surveys

- cheatgrass

0 200 400 Feet

Note: Alignments may be shifted for display purposes.

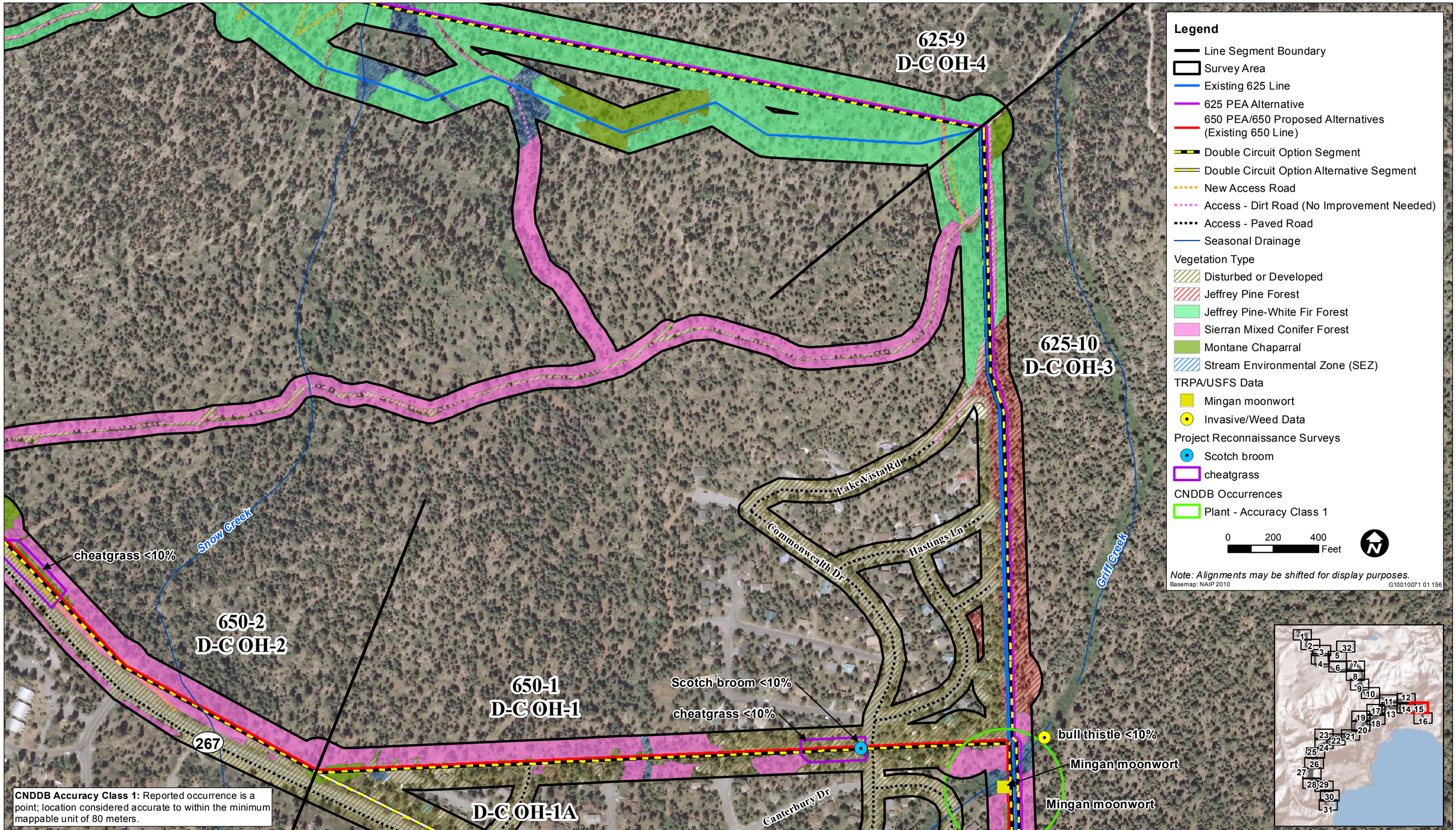
Basemap: NAIP 2010

G10010071 01 154

Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

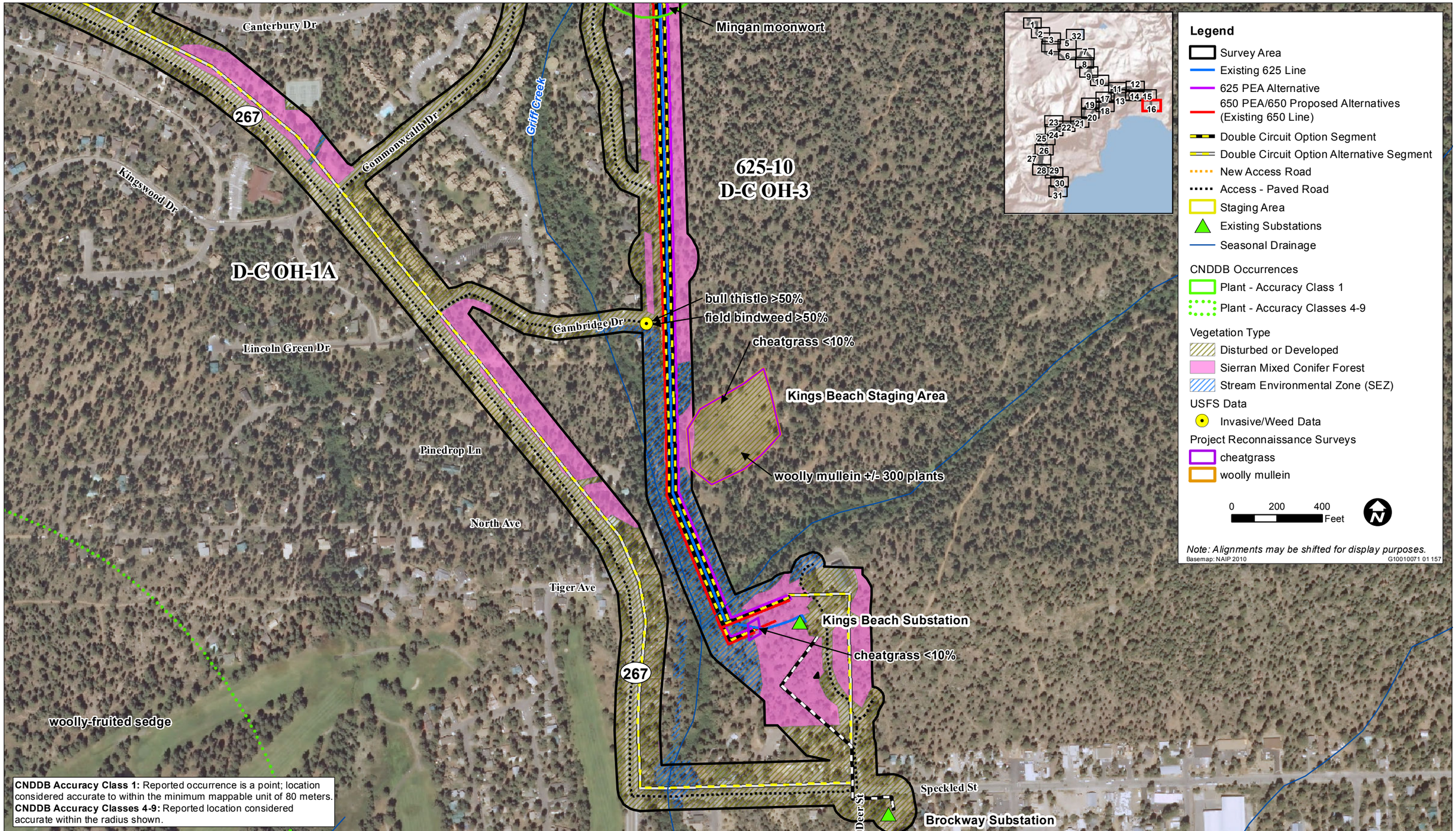
Vegetation - Map 14

ASCENT ENVIRONMENTAL



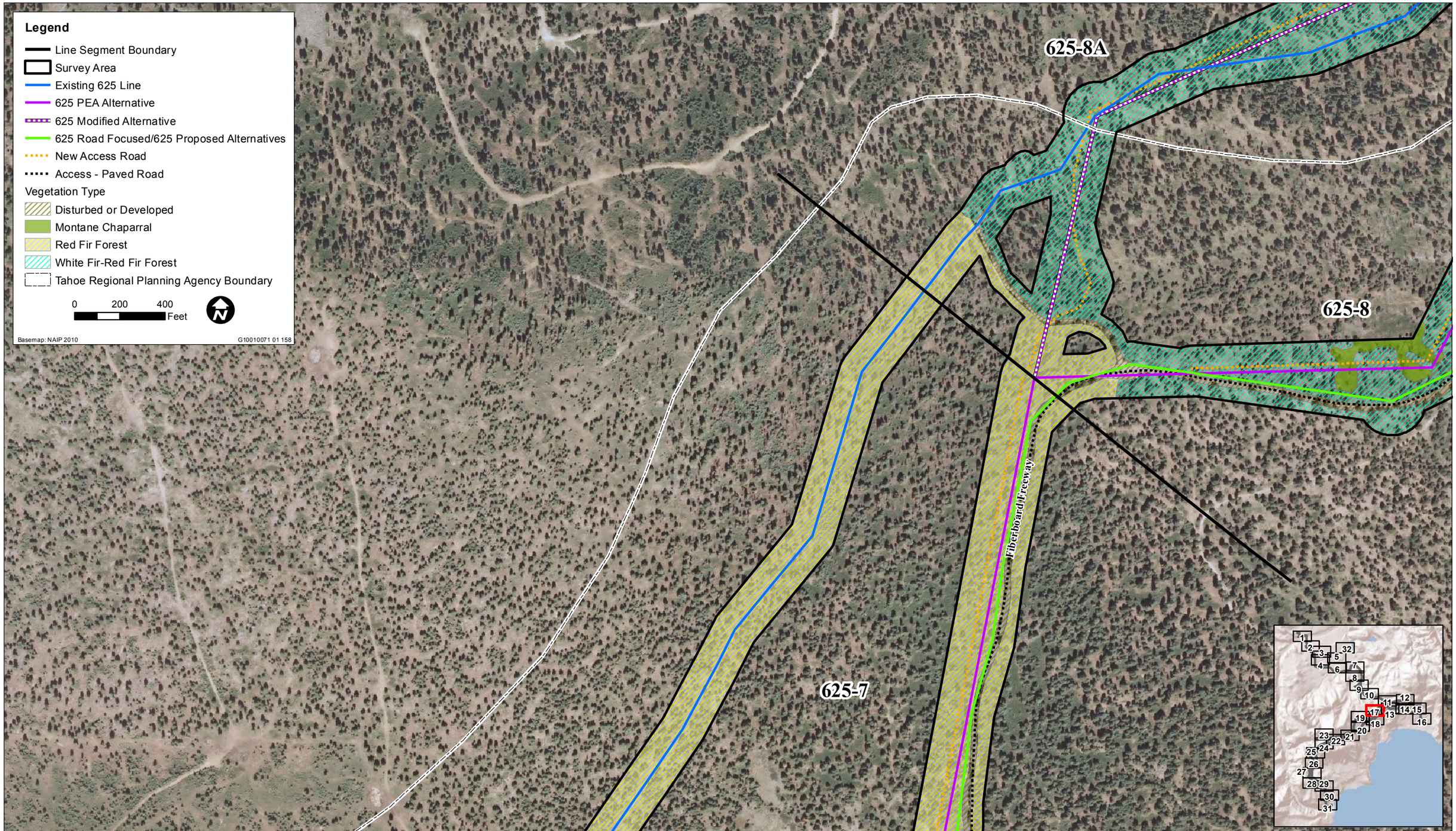
Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 15



Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 16



Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

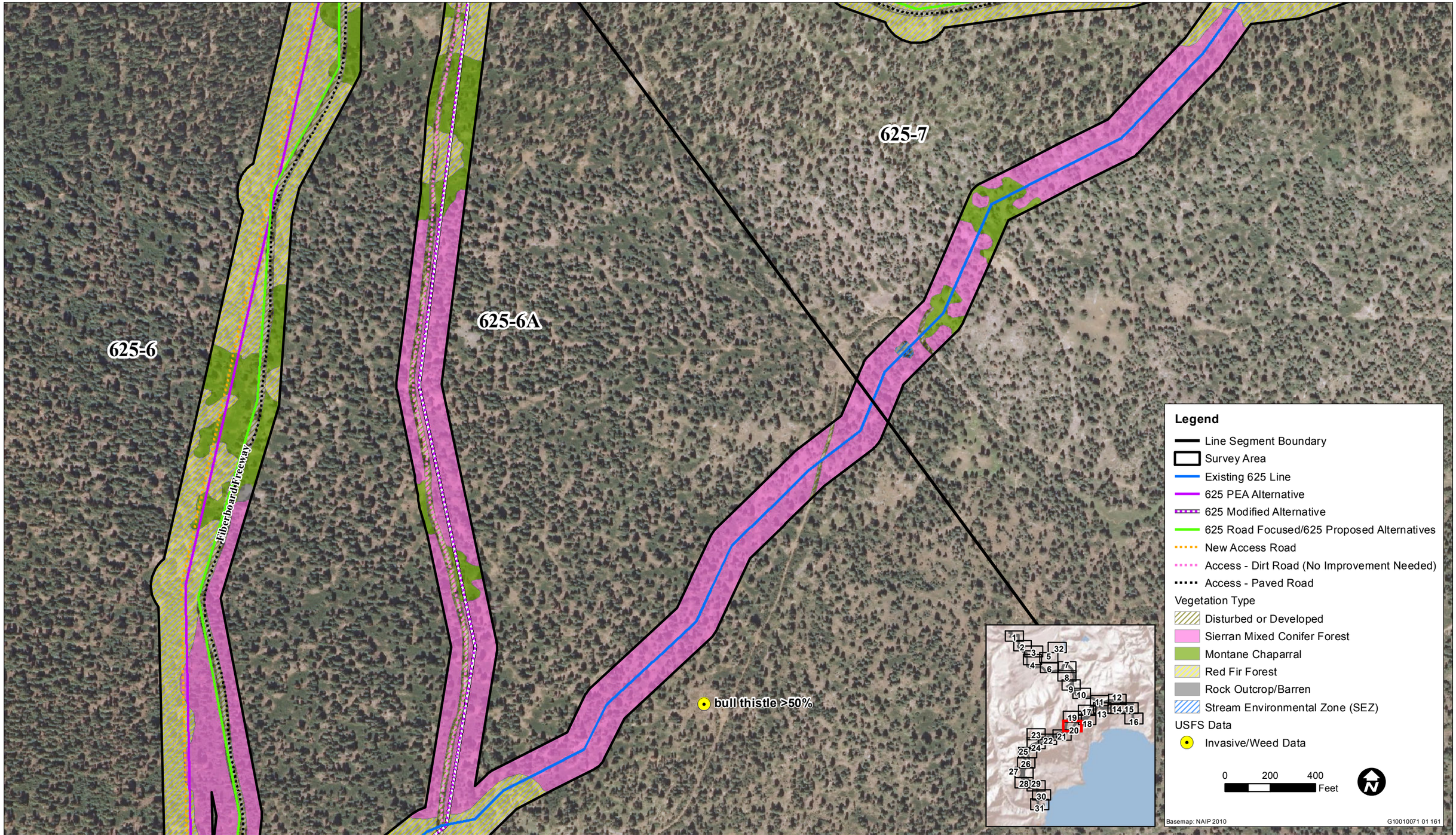
Vegetation - Map 17

Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 18

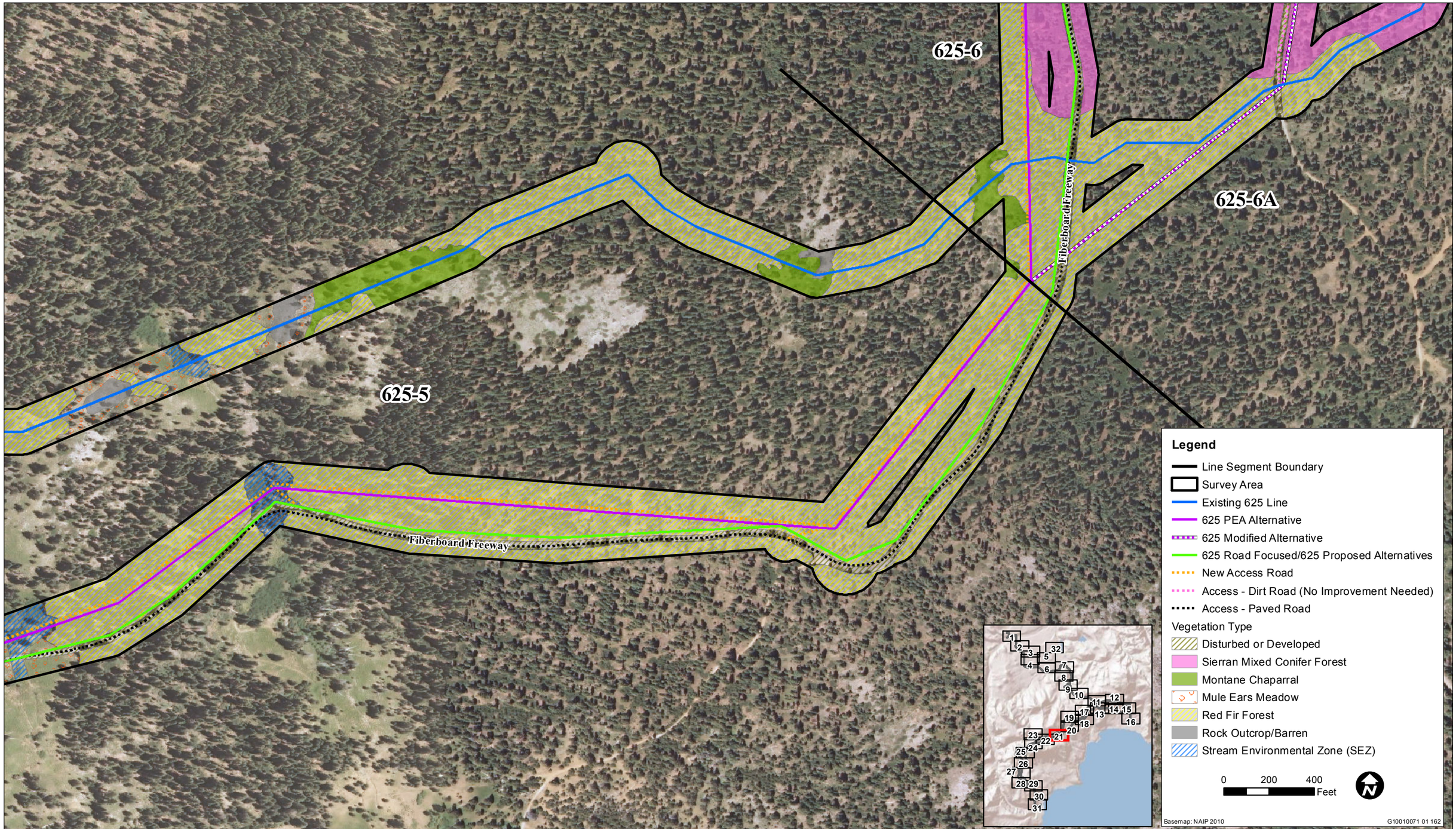
Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 19



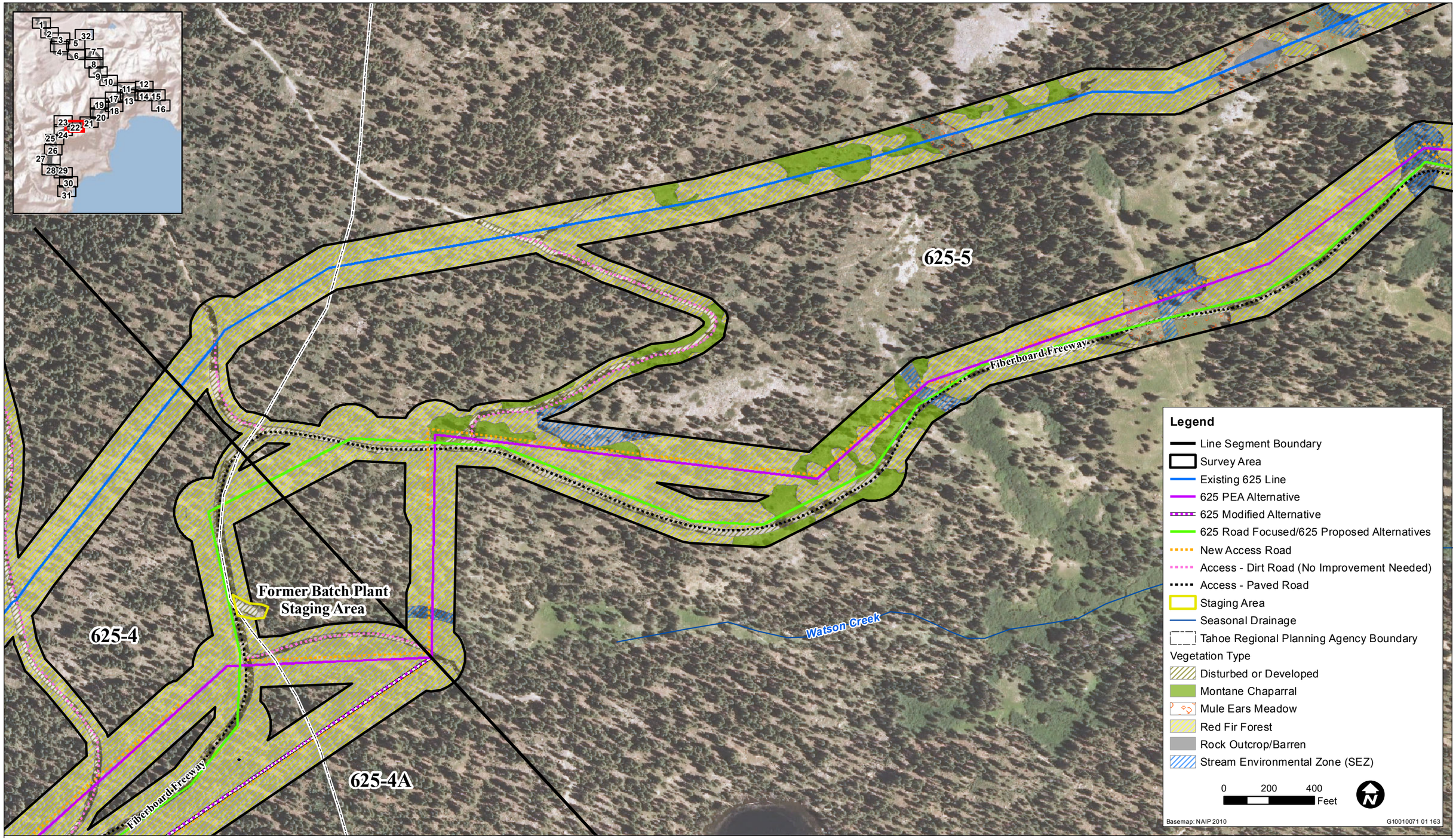
Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 20



Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 21



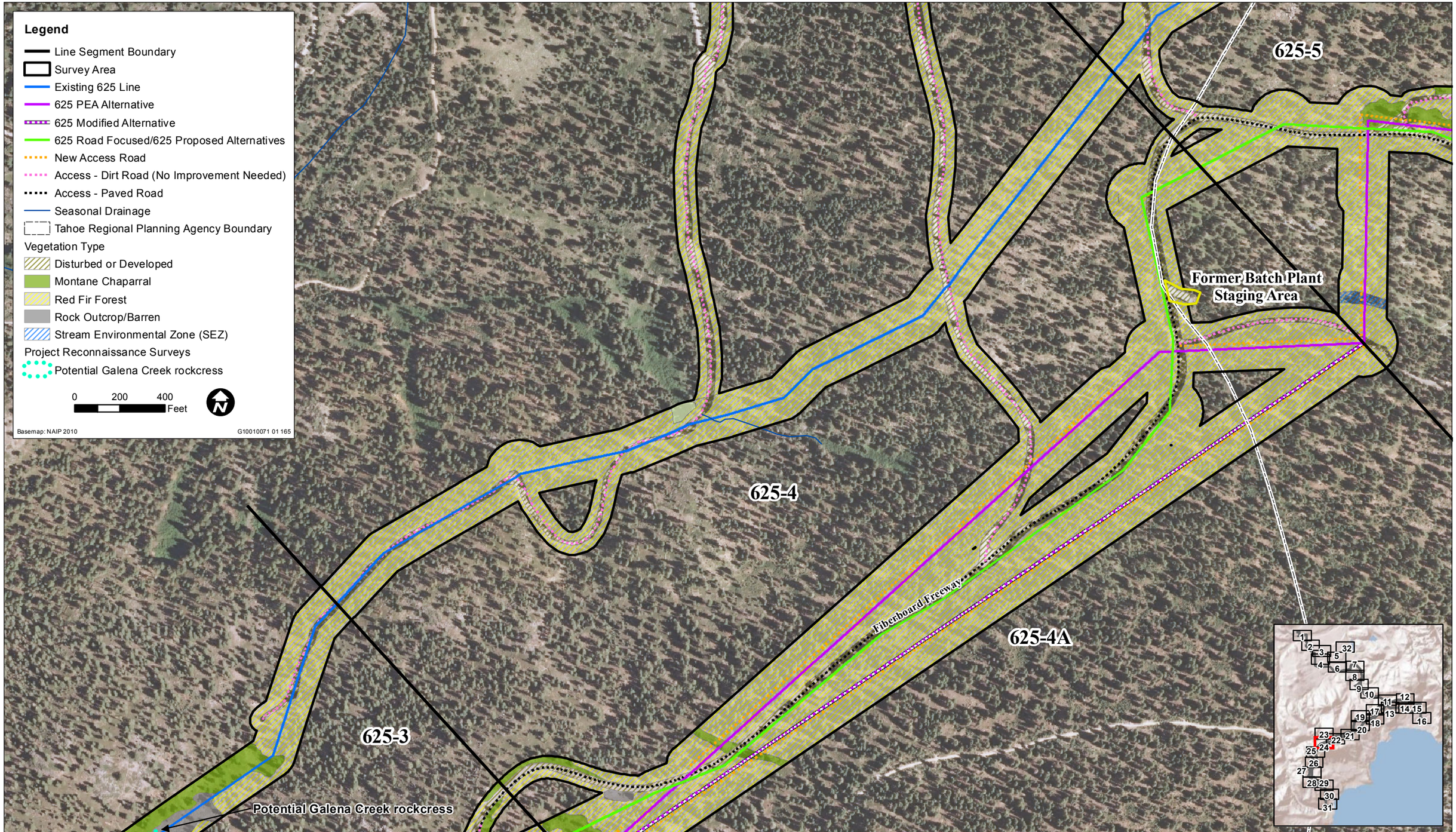
Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 22

Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

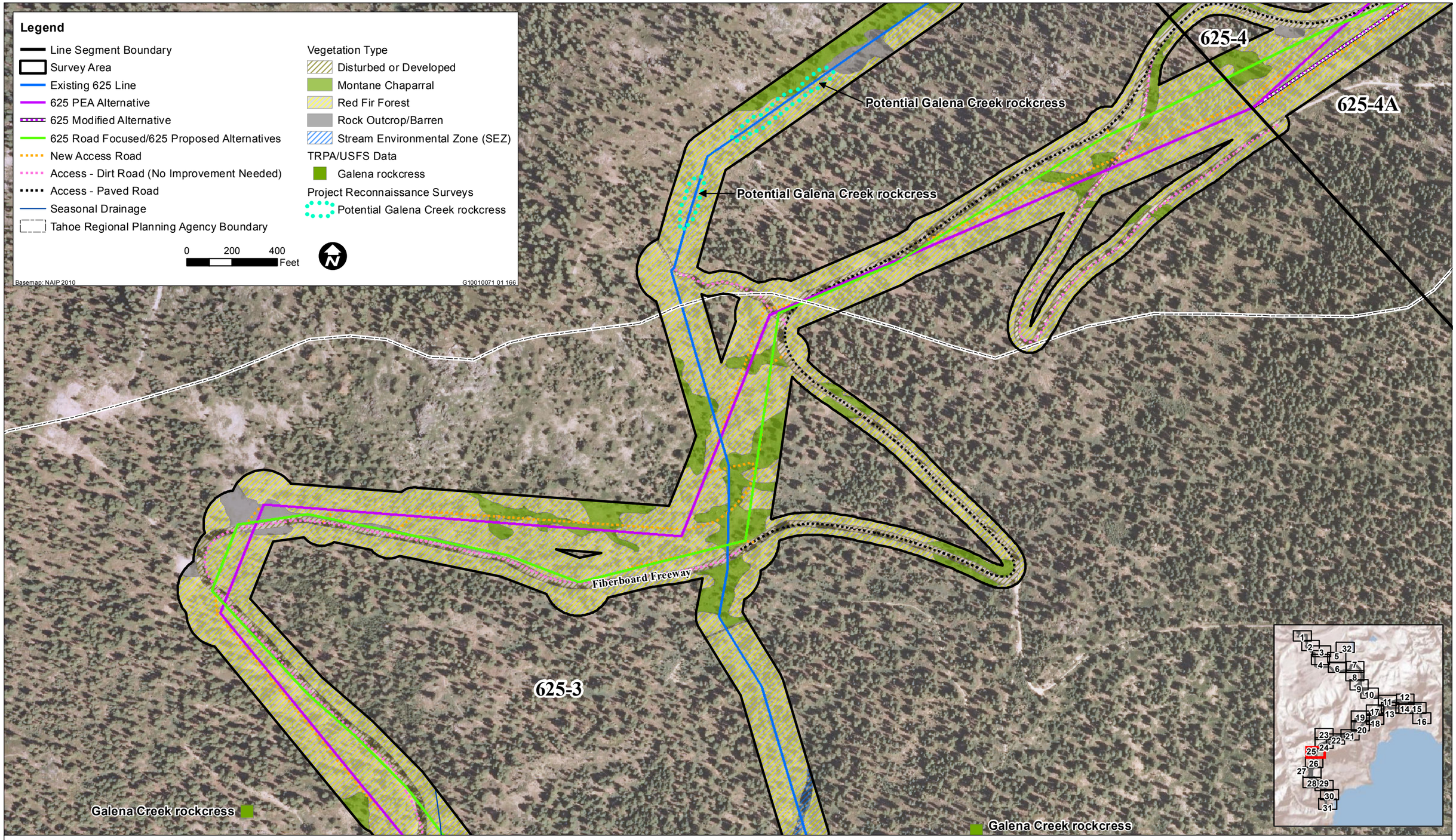
Vegetation - Map 23

ASCENT ENVIRONMENTAL



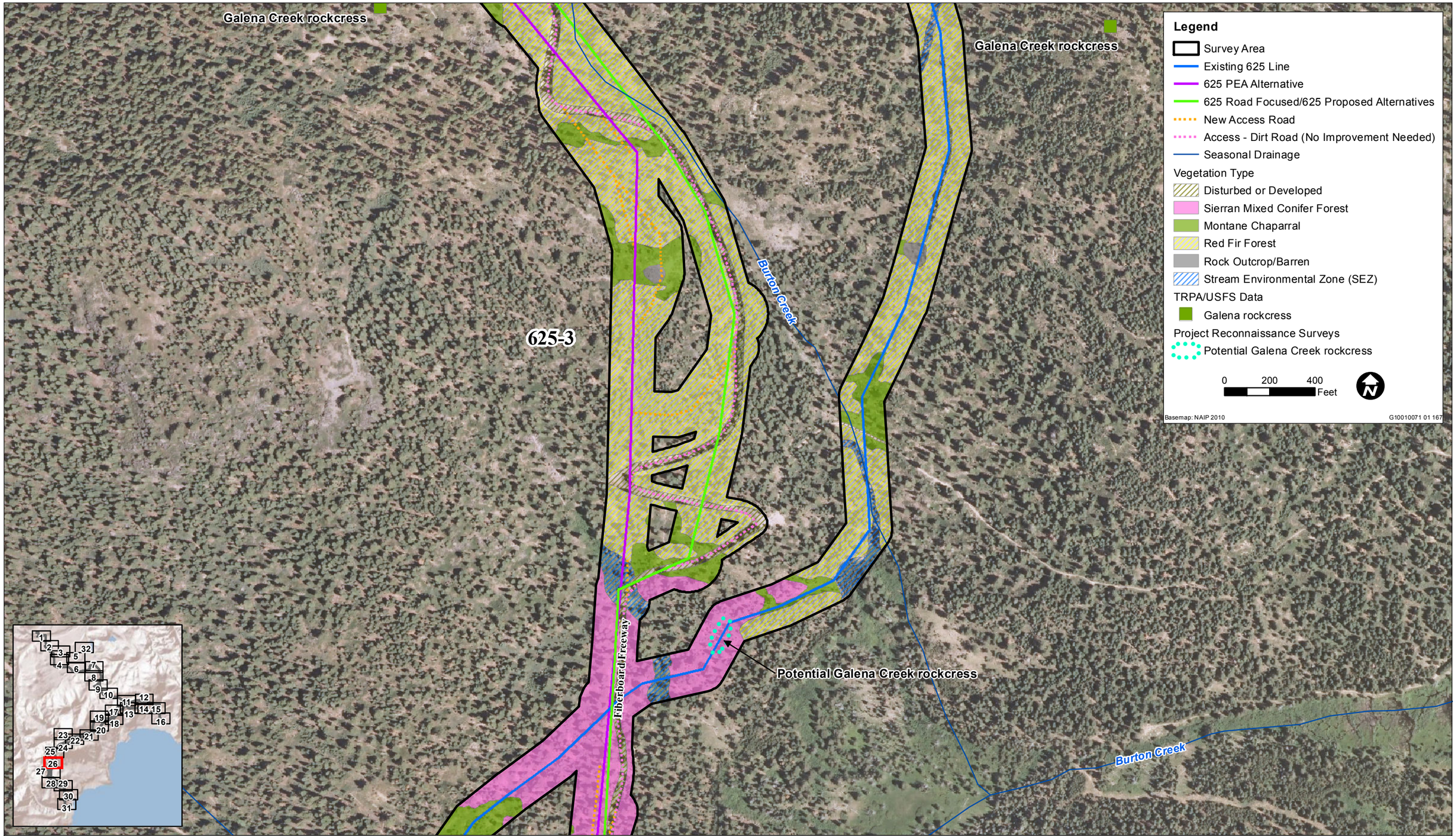
Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 24



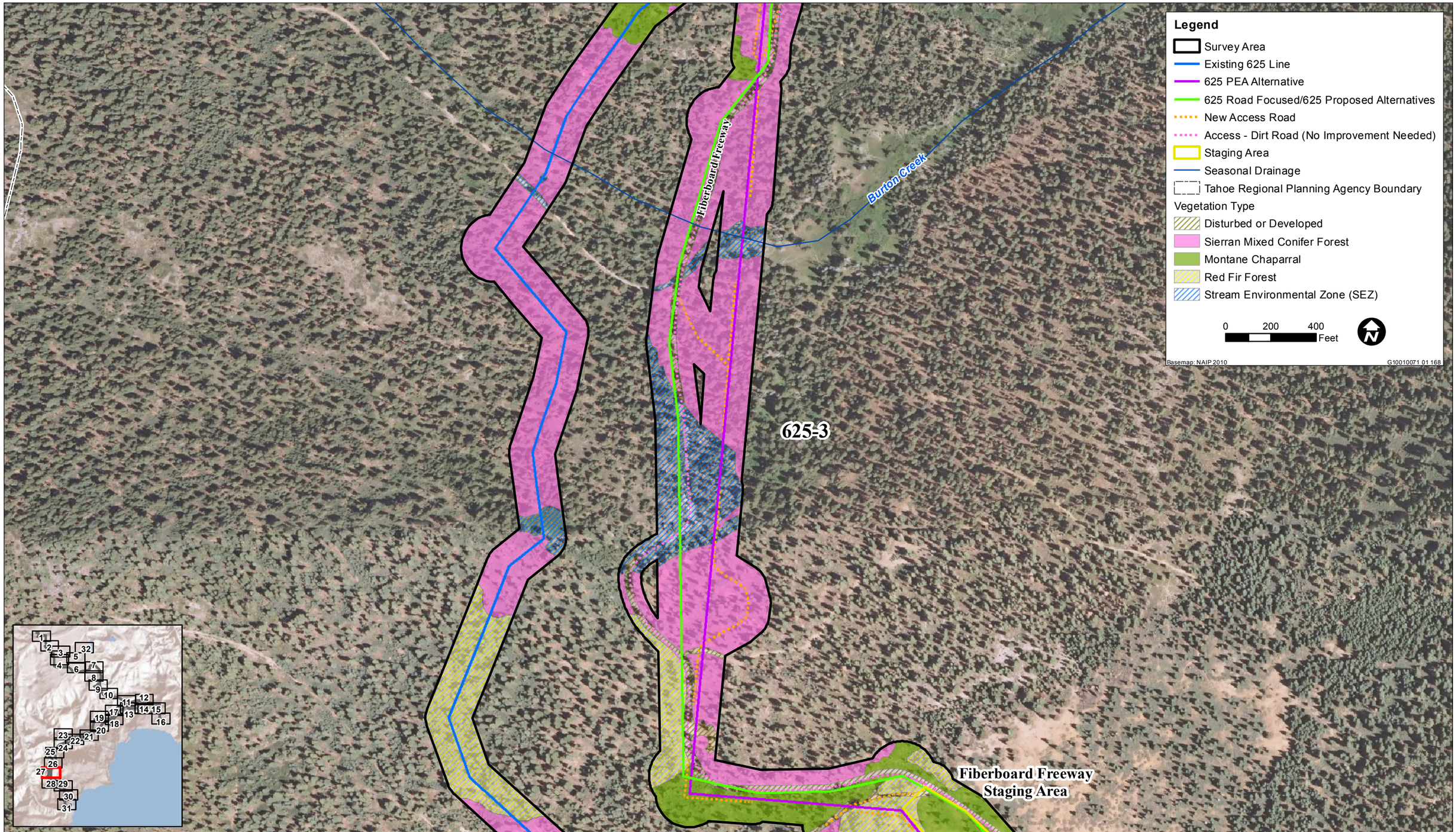
Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 25



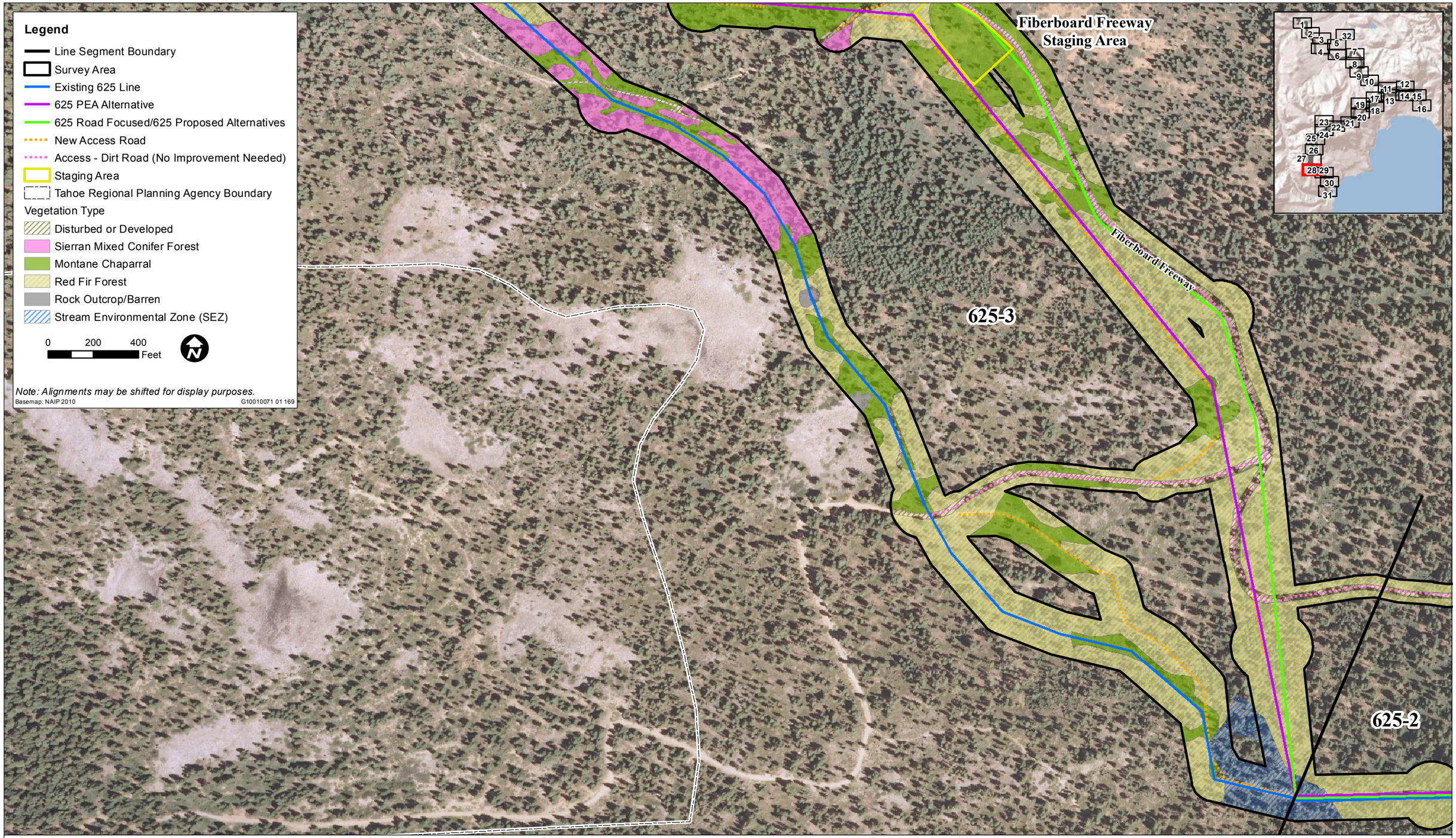
Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 26



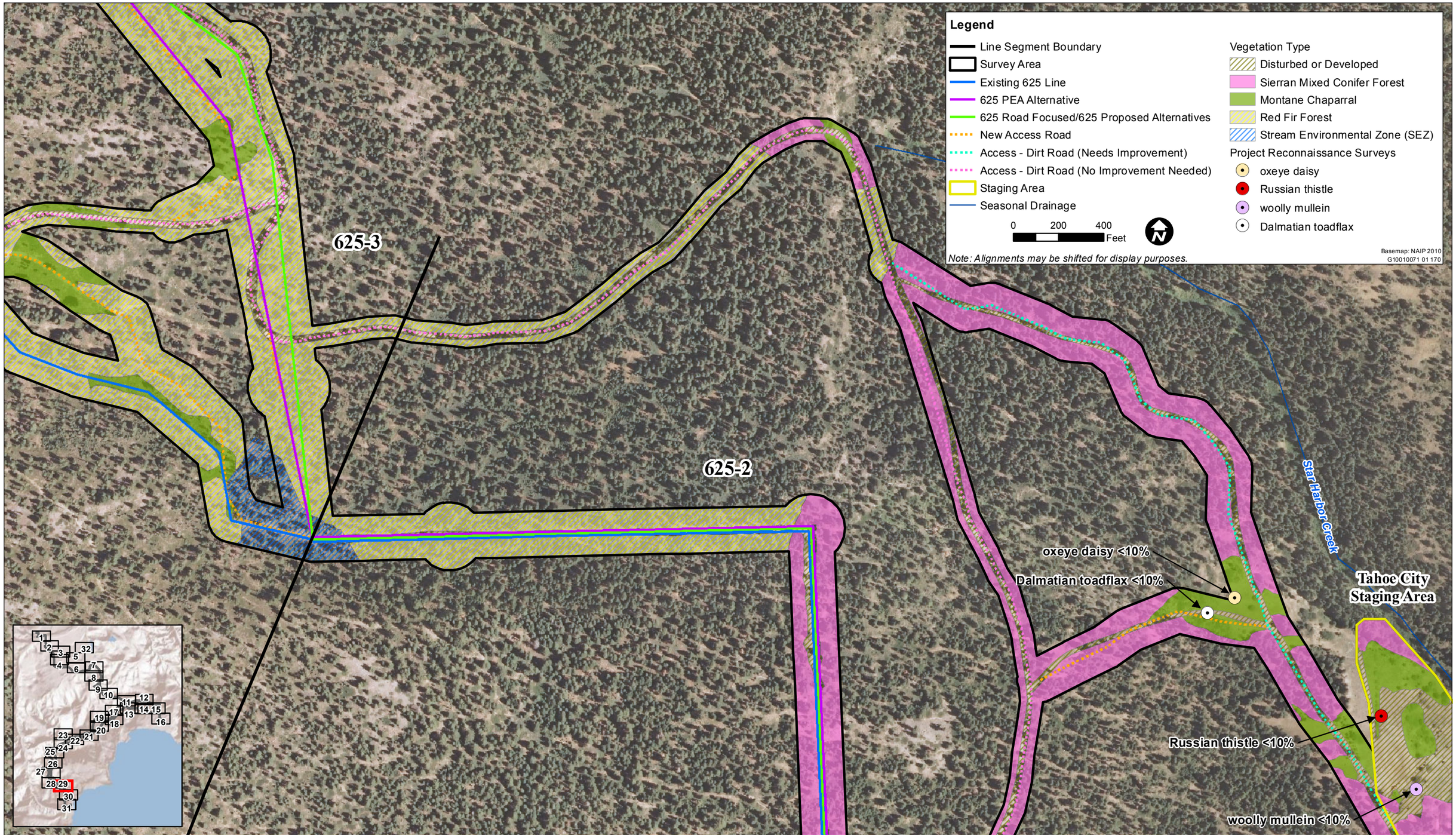
Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 27



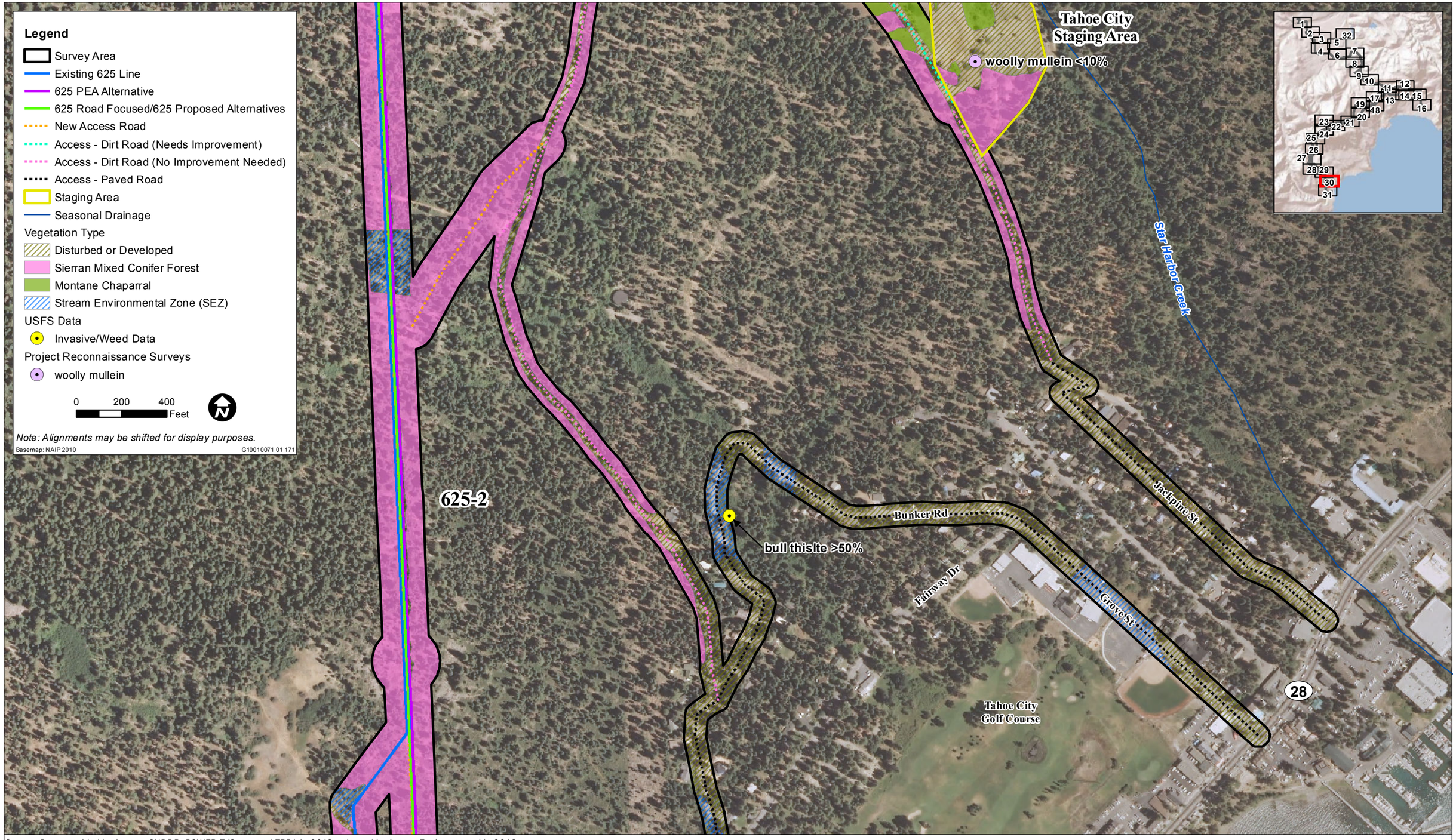
Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 28



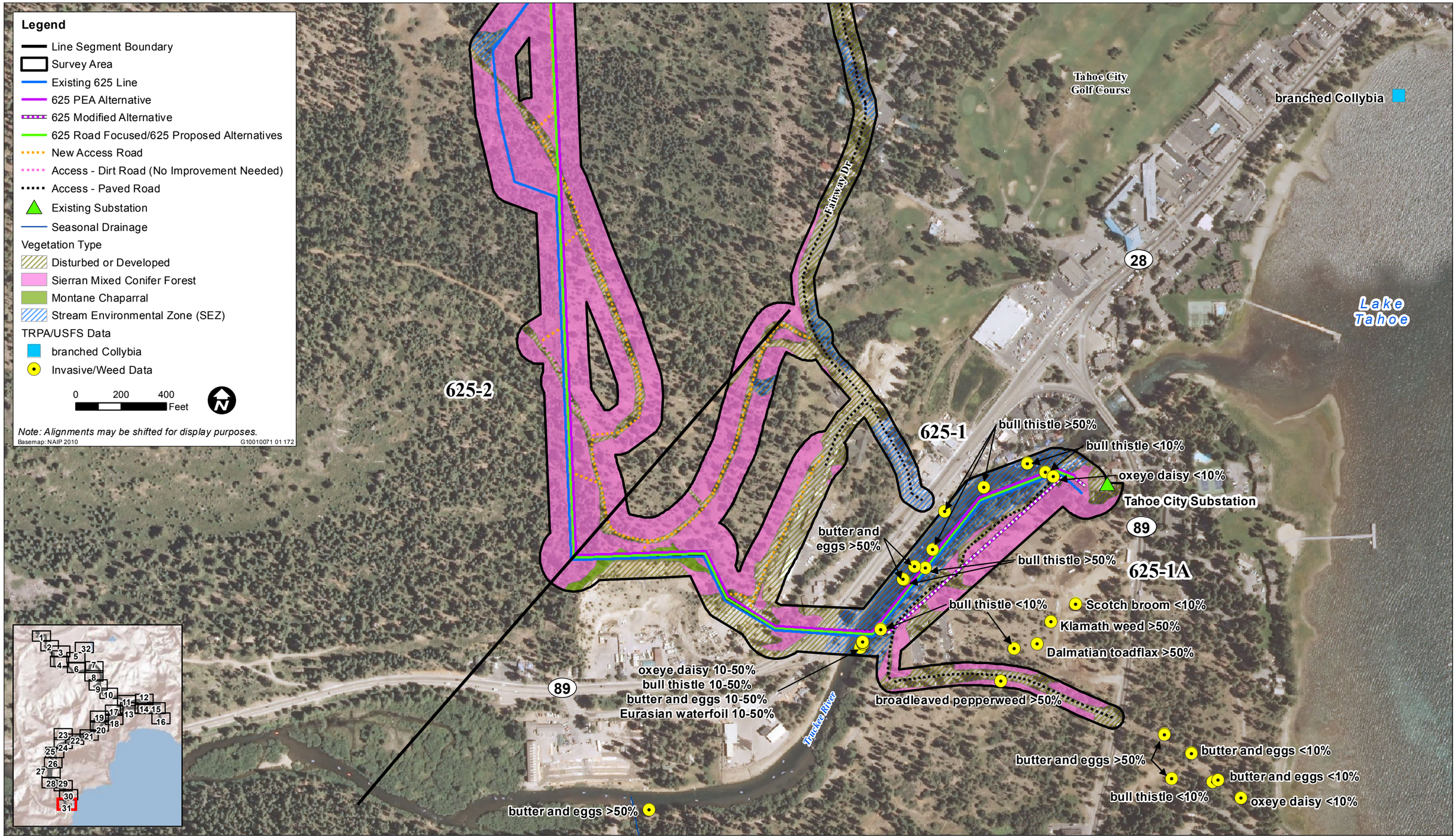
Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 29



Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 30



Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 31

Source: Data provided by Ascent, CNDDB, POWER,TriSage, and TRPA in 2012; adapted by Ascent Environmental in 2013

Vegetation - Map 32

Appendix L

Biological Resources Effects Determinations and Plant Species List

Contents

Appendix L1. U.S. Biological Resources Effects Determinations
Appendix L2. Plant Species Observed along the 625 and 650 Electrical Lines June-July, 2012

L1. U.S. Biological Resources Effects Determinations Effect Determinations for Species Listed, Proposed for Listing, or Candidates for Listing and Critical Habitat Under the Federal Endangered Species Act			
Species	ESA Status	Determination – Alternative 4 (Proposed Alternative)	Determination – Alternative 5 (No Action /No Project)
Fish			
Lahontan cutthroat trout (*Oncorhynchus clarkii henshawi*)	Threatened	May Affect but Not Likely to Adversely Affect	Will Not Affect
Central Valley steelhead (*Oncorhynchus mykiss*)	Threatened	Will Not Affect	Will Not Affect
Delta smelt (*Hypomesus transpacificus*)	Threatened	Will Not Affect	Will Not Affect
Central Valley spring-run chinook salmon (*Oncorhynchus tshawytscha*)	Threatened	Will Not Affect	Will Not Affect
winter-run chinook salmon, Sacramento River(*Oncorhynchus tshawytscha*)	Endangered	Will Not Affect	Will Not Affect
Amphibians			
California red-legged frog (*Rana draytonii*)	Threatened	Will Not Affect	Will Not Affect
Critical Habitat for California red-legged frog (*Rana draytonii*)	Critical Habitat	Not Likely to Result in the Destruction or Adverse Modification of critical habitat	Not Likely to Result in the Destruction or Adverse Modification of critical habitat
Sierra Nevada Yellow-legged Frog (*Rana sierrae*)	Endangered	**(Note: Determination is pending conclusion of USFWS consultation.)**	Will Not Affect
Critical Habitat for Sierra Nevada Yellow-legged Frog (*Rana sierrae*)	Proposed Critical Habitat	Not Likely to Result in the Destruction or Adverse Modification of proposed critical habitat	Not Likely to Result in the Destruction or Adverse Modification of proposed critical habitat
Yosemite Toad (*Bufo canorus*)	Proposed Threatened	Will Not Affect	Will Not Affect
Mammals			
North American wolverine (*Gulo gulo luscus*)	Proposed Threatened	Will Not Affect	Will Not Affect
Pacific Fisher (*Martes pennanti*)	Candidate	Will Not Affect	Will Not Affect
Plants			
Tahoe yellow-cress (*Rorippa subumbellata*)	Candidate	Will Not Affect	Will Not Affect
Webber's ivesia (*Ivesia webberi*)	Threatened	Will Not Affect	Will Not Affect
Layne's butterweed (Listed by USFWS as *Senecio layneae,* USFS uses *Packera layneae*)	Threatened	Will Not Affect	Will Not Affect

L1. U.S. Biological Resources Effects Determinations Effect Determinations for Species Listed, Proposed for Listing, or Candidates for Listing and Critical Habitat Under the Federal Endangered Species Act			
Species	ESA Status	Determination – Alternative 4 (Proposed Alternative)	Determination – Alternative 5 (No Action /No Project)
Whitebark pine (*Pinus albicaulis*)	Candidate	Will Not Affect	Will Not Affect
Invertebrates			
Valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*)	Threatened	Will Not Affect	Will Not Affect

Forest Service Sensitive Species for the Lake Tahoe Basin Management Unit and Tahoe National Forest, and Effect Determinations for Project Level Analysis for the Proposed CalPeco 625 and 650 Electrical Line Upgrade Project				
Species	USFS Status	Known to Occur in the Action area	Suitable Habitat in the Action area	*Determination
Birds				
Bald Eagle (*Haliaeetus leucocephlus*)	Forest Sensitive Species (LTBMU and TNF)	No	Perching or foraging only	MANL
California Spotted Owl (*Strix occidentalis occidentalis*)	Forest Sensitive Species (LTBMU and TNF)	Yes	Yes	MANL
Northern Goshawk (*Accipiter gentiles*)	Forest Sensitive Species (LTBMU and TNF)	Yes	Yes	MANL
Willow Flycatcher (*Empidonax traillii adastus*)	Forest Sensitive Species (LTBMU and TNF)	No	No	NE
Great Gray Owl (*Strix nebulosa*)	Forest Sensitive Species (LTBMU and TNF)	No	Yes	NE
Greater sandhill crane (*Grus canadensis tabida*)	Forest Sensitive Species (TNF)	No	No	NE
Mammals				
Pacific fisher (*Martes pennanti*)	Forest Sensitive Species (TNF)	No	No	NA
American marten (*Martes caurina*)	Forest Sensitive Species (LTBMU and TNF)	Yes	Yes	MANL
California wolverine (*Gulo gulo luteus*)	Forest Sensitive Species (LTBMU and TNF)	No	No	NE
Townsend's big-eared bat (*Corynorhinus townsendii*)	Forest Sensitive Species (LTBMU and TNF)	No	No	NE
Pallid Bat (*Antrozous pallidus*)	Forest Sensitive Species (LTBMU and TNF)	No	Yes	MANL
Fringed Myotis (*Myotis thysanodes*)	Forest Sensitive Species (LTBMU and TNF)	No	Some, but not optimal	NE
Amphibians				
Foothill yellow-legged frog (*Rana boylii*)	Forest Sensitive Species (TNF)	No	No	NE

Forest Service Sensitive Species for the Lake Tahoe Basin Management Unit and Tahoe National Forest, and Effect Determinations for Project Level Analysis for the Proposed CalPeco 625 and 650 Electrical Line Upgrade Project				
Species	USFS Status	Known to Occur in the Action area	Suitable Habitat in the Action area	*Determination
Reptiles				
Western pond turtle (*Emys marmorata*	Forest Sensitive Species (TNF)	No	No	NE
Fish				
Lahontan Lake tui chub (*Gila bicolor pectinifer*)	Forest Sensitive Species (LTBMU and TNF)	No	No	NE
Hardhead (*Mylopharodon conocephalus*)	Forest Sensitive Species (TNF)	No	No	NE
Invertebrates				
Western Bumble Bee (*Bombus occidentalis*)	Forest Sensitive Species (LTBMU and TNF)	No	Yes	MANL
Black juga (snail) (*Juga nigrina*)	Forest Sensitive Species (TNF)	No	No	NE
California floater (*Andonta californiensis*)	Forest Sensitive Species (TNF)	No	No	NE
Great Basin rams-horn (*Helisoma newberryi newberryi*)	Forest Sensitive Species (LTBMU)	Yes (possibly)	Yes (marginal)	MANL
Valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*)	Forest Sensitive Species (TNF)	No	No	NE

Sensitive Species
NE – Will not affect the species.
MANL – May affect individuals, but is not likely to result in a trend toward Federal listing or loss of viability.
MALT – May affect individuals, and is likely to result in a trend toward Federal listing or loss of viability.
Source: USFS 2007, Ascent Environmental 2014

L2. Plant Species Observed along the 625 and 650 Electrical Lines June-July, 2012		
Scientific Name	Common Name	Wetland Indicator Status (USACE 2012)
Abies concolor	White fir	NL
Abies magnifica	Red fir	NL
Acer glabrum	Mountain maple	FACU
Achillea millefolium	Yarrow	FACU
Acmispon americanus (Lotus purshianus)	Spanish lotus	NL
Acmipson brachycarpus (Lotus humistratus)	Short-pod lotus	NL
Aconitum columbianum	Columbian monkshood	FACW
Agoseris glauca	Pale dendelion	FAC
Agoseris grandiflora	Large-flowered agoseris	NL
Agoseris heterophylla	Annual mountain dandelion	NL
Agoseris retrorsa	Spearleaf mountain dandelion	NL
Agropyron cristatum	Crested wheat grass	NL
Agrostis exarata	Spike bentgrass	FACW
Agrostis idahoensis	Idaho bentgrass	FACW
Allium campanulatum	Sierra onion	NL
Allophyllum divaricatum	Divaricate allophyllum	NL
Alnus incana ssp. tenuifolia	Mountain alder	FACW
Alopecurus pratensis	Meadow foxtail	FAC
Amaranthus albus	Pigweed amaranth	FACU
Ambrosia acanthicarpa	Annual bur sage	NL
Amelanchier alnifolia	Smooth serviceberry	FACU
Amelanchier utahensis	Utah serviceberry	NL
Anaphalis margaritacea	Pearly everlasting	NL
Angelica breweri	Brewer's angelica	NL
Antennaria geyeri	Mountain pussytoes	NL
Apocynum androsaemifolium	Spreading dogbane	FACU
Aquilegia formosa	Crimson columbine	FAC
Arabis sp.[1]	Rockcress	NL
Arctostaphylos nevadensis	Pinemat manzanita	NL
Arctostaphylos patula	Greenleaf manzanita	NL
Arctostaphylos viscida	Whiteleaf manzanita	NL
Arceuthobium campylopodon	Western dwarf-mistletoe	NL
Arnica chamissonis	Chamisso arnica	FACW
Arnica cordifolia	Heartleaf arnica	NL
Arnica mollis	Hairy arnica	FAC
Artemisia arbuscula ssp. arbuscula	Low sagebrush	NL
Artemisia cana ssp. bolanderi	silver sagebrush	FACW

L2. Plant Species Observed along the 625 and 650 Electrical Lines June-July, 2012		
Scientific Name	Common Name	Wetland Indicator Status (USACE 2012)
Artemisia douglasiana	Mugwort	FACW
Artemisia tridentata	big sagebrush	NL
Astragalus purshii var. tinctus	Woollypod milkvetch	NL
Balsamorhiza sagittata	Balsamroot	NL
Bistorta bistortoides (Polygonum bistortoides)	American bistort	FACW
Boechera elkoensis (Arabis platysperma var. platysperma)	Broad-seeded rockcress	NL
Boechera pendulocarpa (Arabis holboellii var. pendulocarpa)	Dropseed rockcress	NL
Boechera rectissima (Arabis rectissima var. rectissima)	Bristly leaf rockcress	NL
Boechera retrofracta (Arabis holboellii var. retrofracta)	Reflexed rockcress	FACU
Bromus carinatus var. marginatus	Mountain brome	NL
Bromus tectorum	cheatgrass	NL
Calocedrus decurrens	Incense cedar	NL
Calochortus leichtlinii	Leichtlin's mariposa lily	NL
Calyptridium umbellatum	Pussy paws	NL
Cardamine cordifolia	Heartleaf bittercress	FACW
Carex athrostachya	Slender beak sedge	FACW
Carex angustata	widefruit sedge	FACW
Carex nebrascensis	Nebraska sedge	OBL
Carex pellita	Woolly sedge	NL
Carex praegracilis	clustered field sedge	FACW
Carex utriculata	beaked sedge	OBL
Castilleja applegatei	Wavy-leaved paintbrush	NL
Castilleja miniata ssp. miniata	Scarlet Indian paintbrush	FAC
Castilleja pilosa	Parrothead Indian paintbrush	NL
Ceanothus cordulatus	Mountain whitethorn	NL
Ceanothus prostratus	Mahala mat	NL
Ceanothus velutinus	Tobacco brush	NL
Centaurea cyanus	Bachelor's button	FACU
Chaenactis douglasii var. douglasii	Dusty maidens	NL
Chamerion angustifolium (Epilobium angustifolium)	Fireweed	FACU
Chenopodium album	Lamb's quarters	FACU
Chrysolepis sempervirens	Sierra chinquapin	NL
Chrysothamnus nauseosus	Rubber rabbitbrush	NL
Chrysothamnus viscidiflorus	Stickyleaf rabbitbrush	NL
Cicuta douglasii	Western water hemlock	OBL
Cirsium sp.[1]	thistle	-
Cirsium andersonii	Anderson's thistle	NL

L2. Plant Species Observed along the 625 and 650 Electrical Lines June-July, 2012		
Scientific Name	Common Name	Wetland Indicator Status (USACE 2012)
Cirsium scariosum	Elk thistle	FAC
Cirsium vulgare	Bull thistle	FACU
Collomia grandiflora	Large-flowered collomia	NL
Collomia linearis	Tiny trumpet	FACU
Collomia tinctoria	Staining collomia	NL
Conium maculatum	Poison hemlock	FAC
Convolvulus arvensis	Field bindweed	NL
Cornus sericea	American dogwood	NL
Crepis occidentalis	Western hawksbeard	NL
Cryptantha affinis	Slender cryptantha	NL
Cryptantha echinella	Hedgehog cryptantha	NL
Cytisus scoparius	Scotch broom	NL
Dactylis glomerata	Orchardgrass	FACU
Danthonia unispicata	One spike oatgrass	NL
Delphinium sp.[1]	Larkspur	-
Delphinium depauperatum	Few-flowered larkspur	NL
Delphinium glaucum	Sierra larkspur	FACW
Deschampsia cespitosa ssp. cespitosa	Tufted hairgrass	FACW
Deschampsia danthonioides	Annual hairgrass	FACW
Dodecatheon jeffreyi	Sierra shooting star	FACW
Drymocallis glandulosa (Potentilla glandulosa)	Sticky cinquefoil	FAC
Drymocallis gracilis (Potentilla gracilis)	Slender cinquefoil	FAC
Eleocharis acicularis	Needle spikerush	OBL
Eleocharis macrostachya	Common spikerush	NL
Elodea canadensis	Canadian waterweed	OBL
Elymus elymoides	Squirreltail	FACU
Elymus glaucus ssp. glaucus	Blue wildrye	NL
Elymus hispidus (Elytrigia intermedia)	Intermediate wheatgrass	NL
Elymus trachycaulus	Slender wheatgrass	NL
Epilobium brachycarpum	Tall annual willowherb	NL
Epilobium ciliatum	Fringed willowherb	FACW
Epilobium glaberrimum	Glaucous willowherb	FACW
Epilobium torreyi	Torrey's willowherb	FACW
Equisetum hyemale	Scouringrush horsetail	FACW
Eriogonum heracleoides var. heracleoides[2]	Parsnip-flowered buckwheat	NL
Eriogonum nudum var. nudum	Naked buckwheat	NL
Eriogonum umbellatum var. nevadense	Nevada buckwheat	NL

L2. Plant Species Observed along the 625 and 650 Electrical Lines June-July, 2012		
Scientific Name	Common Name	Wetland Indicator Status (USACE 2012)
Eriogonum spergulinum	Redding buckwheat	NL
Erodium cicutarium	Redstem stork's bill	NL
Erysimum capitatum	Western wallflower	NL
Eucephalus breweri (Aster breweri)	Brewer's aster	NL
Festuca idahoensis	Idaho fescue	FACU
Fragaria virginiana	Mountain strawberry	FACU
Fritillaria atropurpurea	Mountain fritillary	NL
Galium trifidum	Threepetal bedstraw	FACW
Gayophytum diffusum	Spreading groundsmoke	NL
Geranium californicum	California cranesbill	FAC
Geranium richardsonii	Richardson's geranium	FAC
Geum macrophyllum	Big-leaf avens	FACW
Glyceria borealis	Boreal manna grass	OBL
Gnaphalium palustre	Western marsh cudweed	FACW
Hackelia floribunda	Many flowered stickseed	FACU
Heracleum maximum (Heracleum lanatum)	Cow parsnip	FAC
Hieracium albiflorum	White-flowered hawkweed	NL
Hordeum brachyantherum	Meadow barley	FACW
Hordeum jubatum	Foxail barley	FACW
Hosackia crassifolia var. crassifolia (Lotus crassifolius)	Big deervetch	NL
Hosackia oblongifolia var.oblongifolia (Lotus oblongifolius var. oblongifolius)	Streambank bird's foot trefoil	OBL
Hosackia stipularis (Lotus stipularis)	Stipulate lotus	NL
Hypericum formosum	St. Johnswort	NL
Hypericum perforatum	Klamath weed	FACU
Ipomopsis aggregata	Scarlet gilia	NL
Ivesia sericoleuca	Plumas ivesia	FAC
Juncus balticus	Baltic rush	OBL
Juncus bufonius	Toad rush	FACW
Juncus macrandrus	Longanther rush	OBL
Juncus mexicanus	Mexican rush	FACW
Juniperus communis	Dwarf juniper	UPL
Juniperus occidentalis	Western juniper	NL
Kelloggia galioides	Kelloggia	NL
Lactuca serriola	Prickly lettuce	FACU
Lemna sp.	Duckweed	OBL
Lepidium densiflorum	Common pepperweed	FACU

L2. Plant Species Observed along the 625 and 650 Electrical Lines June-July, 2012		
Scientific Name	Common Name	Wetland Indicator Status (USACE 2012)
Leptosiphon ciliate (Linanthus ciliata)	Whiskerbrush	NL
Leptosiphon harknessii (Linanthus harknessii)	Harkness' flaxflower	NL
Leucanthemum vulgare	Oxe eye daisy	FACU
Ligusticum grayi	Gray's lovage	FAC
Lilium parvum	Sierra tigerlily	OBL
Linaria dalmatica	Dalmation toadflax	NL
Lomatium sp.[1]	Lomatium	-
Lotus corniculatus	Bird's foot trefoil	FAC
Lupinus albicaulis	Sickle-keeled lupine	NL
Lupinus argenteus	Silvery lupine	NL
Lupinus lepidus var. sellulus	Dwarf tiny lupine	NL
Lupinus polyphyllus	Bigleaf lupine	FAC
Luzula comosa	Pacific woodrush	FAC
Madia gracilis	Slender madia	NL
Madia glomerata	Mountain tarweed	FACU
Maianthemum racemosus (Smilacina racemosa)	False Solomon's seal	FAC
Maianthemum stellatum (Smilacina stellata)	Starry false lily of the valley	FAC
Melilotus albus	White sweetclover	NL
Melilotus indicus	Sweet clover	FACU
Melilotus officinalis	Yellow sweet clover	FACU
Mentha arvensis	Field mint	FACW
Mentzelia dispersa	Nada stickleaf	NL
Mertensia ciliata	Streamside bluebells	FACW
Microsteris gracilis (Phlox gracilis)	Slender phlox	FACU
Mimulus guttatus	Seep monkeyflower	OBL
Mimulus primuloides	Primrose monkeyflower	OBL
Mimulus torreyi	Torrey's monkeyflower	NL
Monardella odoratissima	Mountain monardella	FACU
Muhlenbergia richardsonis	Mat muhly	FAC
Nasturtium officinale	Watercress	OBL
Navarretia breweri	Brewer's navarretia	FAC
Navarretia intertexta ssp. propinqua	near navarretia	FAC
Navarretia leptalea ssp. leptalea	Bridge's gilia	NL
Osmorhiza berteroi	Sweetcicely	FACU
Paeonia brownii	Brown's peony	NL
Pedicularis semibarbata	Pine lousewort	NL
Penstemon deustus	Scabland penstemon	NL

L2. Plant Species Observed along the 625 and 650 Electrical Lines June-July, 2012		
Scientific Name	Common Name	Wetland Indicator Status (USACE 2012)
Penstemon gracilentus	Slender penstemon	NL
Penstemon heterophyllus	Foothill penstemon	NL
Penstemon laetus	Mountain blue penstemon	NL
Penstemon newberryi	Pride of the mountain	NL
Penstemon rydbergii	Rydberg's penstemon	FACU
Penstemon speciosus	Showy penstemon	NL
Perideridia parishii	Parish's yampah	FAC
Phacelia hastata	Mountain phacelia	NL
Phacelia hydrophylloides	Waterleaf phacelia	NL
Phacelia humilis	Low phacelia	NL
Phleum alpinum	Alpine timothy	FAC
Phlox diffusa	Spreading phlox	NL
Phlox gracilis	Slender phlox	NL
Pinus contorta	Lodgepole pine	NL
Pinus jeffreyi	Jeffrey pine	NL
Pinus lambertiana	Sugar pine	NL
Pinus monticola	Western white pine	FACU
Pinus ponderosa	Ponderosa pine	FACU
Plagiobothrys cusickii	Cusick's popcorn flower	NL
Plantago lanceolata	Narrowleaf plantain	FAC
Platanthera leucostachys	Sierra rein orchid	NL
Poa bulbosa	Bulbous bluegrass	NL
Poa pratensis	Kentucky bluegrass	FAC
Poa secunda	Pine bluegrass	NL
Polemonium occidentale	Western polemonium	OBL
Polygonum arenastrum	Oval-leaf knotweed	FAC
Polygonum douglasii	Douglas' knotweed	FACU
Polygonum polygaloides ssp. kelloggii	Kellogg's knotweed	FACW
Polygonum parryi	Parry's knotweed	FAC
Populus tremuloides	Quaking aspen	FAC
Poteridium annuum (Sanguisorba occidentalis)	Western burnet	NL
Prunus emarginata	Bitter cherry	FACU
Psilocarphus brevissimus var. brevissimus	Short woollyheads	FACW
Pseudotsuga menziesii	Douglas fir	FAC
Pseudostellaria jamesiana	Sticky starwort	NL
Pteridium aquilinum	Western brackenfern	FACU
Pterospora andromedea	Pine drops	NL

L2. Plant Species Observed along the 625 and 650 Electrical Lines June-July, 2012		
Scientific Name	Common Name	Wetland Indicator Status (USACE 2012)
Purshia tridentata	Antelope bitterbrush	NL
Pyrola picta	Wintergreen	NL
Quercus vaccinifolia	Huckleberry oak	NL
Ranunculus occidentalis	Western buttercup	FACW
Ribes cereum	Wax currant	NL
Ribes nevadense	Sierra currant	FAC
Ribes roezlii var. roezlii	Sierra gooseberry	NL
Rosa woodsii	Wood's rose	FACU
Rubus parviflorus	Thimbleberry	FACU
Rumex crispus	Curly dock	FAC
Rumex salicifolius	Willow dock	FACW
Salix geyeriana	Geyer's willow	FACW
Salix lemmonii	Lemmon's willow	OBL
Salix scouleriana	Scouler's willow	FAC
Sarcodes sanguinea	Snowplant	NL
Scrophularia californica	Bee plant	FAC
Senecio integerrimus	Mountain butterweed	FACU
Senecio triangularis	Arrowleaf ragwort	FACW
Sidalcea glaucescens	Glaucus checker mallow	NL
Sidalcea oregana ssp. spicata	Oregon checkerbloom	OBL
Sisymbrium altissimum	Tumble mustard	FACU
Sisyrinchium bellum	Blue-eyed grass	FACW
Solidago canadensis	Canada goldenrod	NL
Solidago spectabilis	Showy goldenrod	FACW
Stachys rigida	Rough hedge nettle	FACW
Stellaria longipes	Longstalk starwort	FACW
Stipa occidentalis var. californica (Achnatherum occidentale ssp. californicum)	California needlegrass	NL
Symphoricarpos mollis	Creeping snowberry	NL
Symphoricarpos rotundifolius var. rotundifolius	Mountain snowberry	NL
Symphyotrichum foliaceum (Aster foliaceus)	Alpine leafybract aster	NL
Symphoritrichum spathulatum var. spathulatum (Aster occidentalis var. occidentalis)	Western mountain aster	FAC
Taraxacum officinale	Common dandelion	FACU
Taraxia subacaulis (Camissonia subacaulis)	Stemless suncup	FACW
Thalictrum fendleri	Fendler's meadow rue	FAC
Thalictrum sparsiflorum	Few-flowered meadow rue	FAC

L2. Plant Species Observed along the 625 and 650 Electrical Lines June-July, 2012		
Scientific Name	Common Name	Wetland Indicator Status (USACE 2012)
Tragopogon dubius	Yellow salsify	NL
Trifolium cyathiferum	Bowl clover	FAC
Trifolium longipes	Longstalk clover	FAC
Trifolium monanthum	Mountain carpet clover	FAC
Trifolium pratense	Red clover	FACU
Trifolium productum	Productive clover	FAC
Trifolium repens	White clover	FAC
Trifolium variegatum	White-tipped clover	FAC
Urtica dioica	Stinging nettle	FACW
Valeriana californica	California valerian	NL
Verbascum thapsus	Woolly mullein	NL
Veratrum californicum	California corn lily	FAC
Veronica americana	American speedwell	OBL
Viola lobata	Pine violet	NL
Viola macloskeyi	Macloskey's violet	OBL
Viola purpurea ssp. purpurea	Goosefoot violet	NL
Wyethia mollis	Woolly mule ears	NL

Source: Ascent Environmental 2014, POWER 2012
[1] Plants were not flowering at the time of the survey and could not be positively identified.
[2] This species is not previously documented in the Sierra Nevada and is known only from the Warner Mountains where it is locally common. It may have been planted by Caltrans as it was growing along the shoulder of 267.

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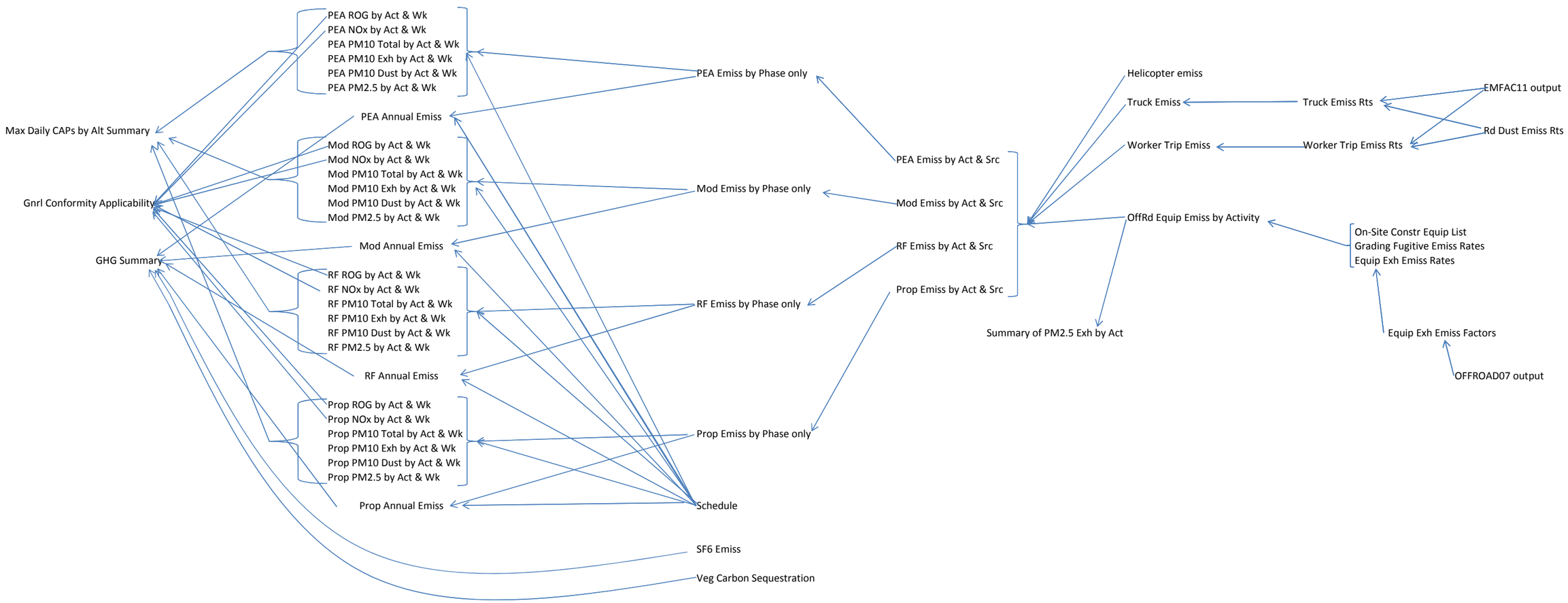
Appendix M

Air Quality Data

Spreadsheet Map

This figure indicates how the spread sheets in this workbook are connected.



Summary of Maximum Daily Emissions by Alternative (lb/day)

Without Mitigation

	ROG		NOx		PM10		PM2.5		CO	
	peak lb/day	weeks above TOS	peak lb/day	weeks above TOS	peak lb/day	weeks above TOS	peak lb/day	weeks above TOS	peak lb/day	weeks above TOS
In PCAPCD's Jurisdictions of MCAB and LTAB										
PEA Alternative	81	0	663	94	92	1	34	NA	354	NA
Modified Alternative	69	0	663	94	92	1	34	NA	354	NA
Road Focused Alternative	68	0	654	94	91	1	34	NA	352	NA
Proposed Project/Action	81	0	659	94	91	1	34	NA	353	NA
Threshold of Significance	82	—	82	—	82	—	—	—	—	—
In the Placer County portion of LTAB										
PEA Alternative	75	0	650	79	87	1	33	NA	340	NA
Modified Alternative	63	0	650	79	87	1	33	NA	340	NA
Road Focused Alternative	62	0	641	79	87	1	33	NA	339	NA
Proposed Project/Action	75	0	646	79	87	1	33	NA	340	NA
Threshold of Significance	82	—	82	—	82	—	—	—	—	—
In NSAQMD's Jurisdiction of MCAB										
PEA Alternative	35	0	295	22	49	0	17	NA	179	NA
Modified Alternative	35	0	295	22	49	0	17	NA	179	NA
Road Focused Alternative	35	0	292	22	49	0	17	NA	179	NA
Proposed Project/Action	35	0	294	22	49	0	17	NA	179	NA
Threshold of Significance	136	—	136	—	136	—	—	—	—	—

With Mitigation Measure 4.13-1a

	PM10	
	peak lb/day	weeks above TOS
In PCAPCD's Jurisdictions of MCAB and LTAB		
PEA Alternative	82.4	1
Modified Alternative	82.4	1
Road Focused Alternative	82.1	1
Proposed Project/Action	82.2	1
Threshold of Significance	82	—
In the Placer County portion of LTAB		
PEA Alternative	78.4	0
Modified Alternative	78.4	0
Road Focused Alternative	78.1	0
Proposed Project/Action	78.2	0
Threshold of Significance	82	—

	NOx	
	peak lb/day	weeks above TOS
In NSAQMD's Jurisdiction of MCAB		
PEA Alternative	236	22
Modified Alternative	236	22
Road Focused Alternative	234	22
Proposed Project/Action	235	22
Threshold of Significance	136	—

Applicability Analysis for General Conformity Regulation

Annual Construction Emissions of Ozone Precursors by Year and Alternative (tons/year)

	2013		2014		2016		2018		2019		Source
	ROG	NOx	ROG	NOx	ROG	NOx	ROG	NOx	ROG	NOx	
PEA Alternative	0.6	5.1	2.1	17.6	1.4	11.1	2.0	17.4	2.2	18.0	wksht PEA Annual Emiss
Modified Alternative	0.3	5.1	1.6	14.3	1.3	11.1	2.0	17.4	2.3	18.5	wksht Mod Annual Emiss
Road Focused Alternative	0.3	5.1	1.9	17.9	1.3	11.3	1.6	13.7	1.9	15.6	wksht RF Annual Emiss
Proposed Project/Action	0.6	5.1	2.1	17.5	1.4	11.1	1.6	13.8	1.9	15.2	wksht Prop Annual Emiss

Maximum Annual Emissions (tons/year)

	ROG	NOx	Source
PEA Alternative	2.2	18.0	above table
Modified Alternative	2.3	18.5	above table
Road Focused Alternative	1.9	17.9	above table
Proposed Project/Action	2.1	17.5	above table
***de minimis* level for Applicability Analysis to General Conformity Regulation**	25	25	Placer County Air Pollution Control District. [no date]. Rule 508, Appendix B1, Federal General Conformity Regulation. Available: http://www.placer.ca.gov/Departments/Air/~/media/apc/documents/Rules/appendix_b%20pdf.ashx

Therefore, project-related construction emissions would not exceed the de minimis levels during any construction year under any of the action alternatives.

Inventory and Projected Inventories of Ozone Precursor Emissions for the Sacramento Federal Ozone Nonattainment Area (tons/day)

Year	ROG	NOx
2011	131	147
2014	125	126
2017	122	109
2018	121	104

Source: Sacramento Metropolitan Air Quality Management District, El Dorado County Air Quality Management District, Feather River Air Quality Management District, Placer County Air Pollution Control District, and Yolo-Solano Air Quality Management District. 2008 (December 19). Sacramento Regional 8-Hour Ozone Attainment and Reasonable Further Progress Plan. Available: http://www.arb.ca.gov/planning/sip/planarea/sacsip/sacplanozone2009.pdf (Table 1-1 and Table 1-2)

Maximum Daily Emissions in PCAPCD

	Expressed in lb/day		Expressed in tons/day		Percent of Emissions Inventory for Sacramento Federal Ozone Nonattainment Area	
	ROG	NOx	ROG	NOx	ROG	NOx
PEA Alternative	81	663	0.04	0.33	0.03%	0.32%
Modified Alternative	69	663	0.03	0.33	0.03%	0.32%
Road Focused Alternative	68	654	0.03	0.33	0.03%	0.31%
Proposed Project/Action	81	659	0.04	0.33	0.03%	0.32%
Source:	wksht Max Daily Emiss by Alt Summary		conversion calculation		calculation	
Notes:	Using these values is conservative because not all emissions generated in PCAPCD's jurisdiction would be in the Sacramento Federal Ozone Nonattainment Area (i.e., the MCAB).				This percentage calculation is based on year 2018, which has the lowest emissions of the projected years. Therefore, this approach is conservative.	

	value	units	source
mass conversion rate	2,000	lb/ton	onlineconversion.com/weight

Therefore, project-related construction emissions of ozone precursors would not represent 10 percent or more of the existing or projected emissions inventories for the Sacramento Federal Ozone Nonattainment Area.

Summary of GHG Emissions by Alternative (MT CO2e/year)

Exhaust CO2e from Construction Equipment during the Construction Phase

Year	PEA Alternative	Modified Alternative	Road Focused Alternative	Proposed Project/Action
2013	662	662	655	655
2014	2,239	1,823	2,259	2,216
2016	1,430	1,430	1,443	1,414
2018	2,198	2,198	1,725	1,741
2019	2,370	2,436	2,028	1,930
TOTAL	8,899	8,549	8,110	7,956
Source (worksheet)	wksht PEA Annual Emiss	wksht Mod Annual Emiss	wksht RF Annual Emiss	wksht Prop Annual Emiss

Net Change in Greenhouse Gas Emissions

	Alt 1 (PEA)	Alt 2 (Mod)	Alt 3 (RF)	Alt 4 (Proposed)	units	source
Total Sequestered Carbon to be Released by Timber Removal	8,128	8,095	6,706	6,682	MT CO2e	wksht Sequestration
Lost Potential in Future Carbon Sequestration	8,913	9,141	7,000	6,966	MT CO2e	wksht Sequestration
Future Carbon Sequestered in Abandoned Rights of Way (in next 100 years)	-3,331	-3,097	-3,886	-3,901	MT CO2e	wksht Sequestration
Future Carbon Sequestered in Temporary Impact Areas after construction (in next 100 years)	-14,303	-12,623	-13,500	-13,383	MT CO2e	wksht Sequestration
Net Change in Carbon Sequestration (including potential)	13,710	14,139	9,820	9,747	0	summation
Construction Exhaust Emissions (one-time)	8,899	8,549	8,110	7,956	MT CO2e	table above
Total One-Time Change in Emissions from Construction Phase	22,609	22,688	17,930	17,703	MT CO2e	summation; See Note 1
Operational Life of Project	25	25	25	25	years	conservative assumption; See Note 2
Construction-Phase Emissions, Amortized Over Operational Life	904	908	717	708	MT CO2e/year	amortization calculation
Long-Term SF6 Emissions	28	28	28	28	MT CO2e/year	wksht SF6 Emiss
Long-Term Net Change in Annual Emissions in Atmosphere	932	935	745	736	MT CO2e/year	summation
Net Change in annual GHGs over Operational Life	1,864	1,871	1,490	1,472	MT CO2e/year	See Note 3
Level Requiring Mandatory Reporting to ARB		10,000			MT CO2e/year	ARB 2011x: p.13
Level Requiring Participation in ARB's Cap-and-Trade Program		25,000			MT CO2e/year	ARB 2011x: p.13

Notes/Conclusions

1 *This increase in CO2e in the atmosphere, which would occur over a multiple-year construction phase (i.e., 2013-2019) would not exceed the 25,000 MT CO2e/year, which is the level at which stationary sources of GHGs in CA are generally required to participate in the Cap-and-Trade Program.*

2 *Assuming a 25-year operational is conservative for two reasons. First, the operational life of the project is very likely greater than 25 years. Second, it would very likely take much longer than 25 years for the future potential in carbon sequestion to be realized in those areas where timber removal would occur.*

3 *These values represent the net change in GHG emissions associated with the project in the long term.*

Changes in CO2 Sequestration from Timber Removal

Change in Sequestration from Vegetation

	Alt 1 (PEA)	Alt 2 (Mod)	Alt 3 (RF)	Alt 3A (RF DC)	units	source/notes
Total Sequestered Carbon to be Released by Timber Removal	8,128	8,095	6,706	6,682	MT CO2e	Table 4.3-5 of Section 4.3, Forestry Resources (by Dudek).
Lost Potential in Future Carbon Sequestration	8,913	9,141	7,000	6,966	MT CO2e	Table 4.3-6 of Section 4.3, Forestry Resources (by Dudek).
Future Carbon Sequestered in Abandoned Rights of Way (in next 100 years)	-3,331	-3,097	-3,886	-3,901	MT CO2e	Table 4.3-7 in Section 4.3, Forestry Resources
Future Carbon Sequestered in Temporary Impact Areas (in next 100 years)	-14,303	-12,623	-13,500	-13,383	MT CO2e	Table 4.3-7 in Section 4.3, Forestry Resources

Sulfur Hexafluoride Emissions

This calculation is for all action alternatives.

	Substation Equipment			
	Breakers	Cylinders	units	source
Equipment quantity	8	0	#	Proponent's EA, 2010
Equipment SF6 capacity	64	0	lb/unit	Proponent's EA, 2010
Mass of SF6 leaked annually	2.560	0	lb/year	Proponent's EA, 2010 (Manufacturer)

	value	units	source
Total SF6	512	lb	product sum
Mass of SF6 leaked annually	2.560	lb/year	summation
Mass conversion rate	2,204.62	lb/MT	onlineconversion.com/weight_common.htm
Mass of SF6 leaked annually	0.001	MT SF6/year	conversion calculation
global warming potential of SF6	23,900	unitless	CCAR GRP 3.1 2009, Table C.1 on p.94
Mass of SF6 leaked annually	28	MT CO2e/year	conversion calculation

Summary of Total Construction Emissions by Phase

PEA Alternative

Task Name	Work Days (No.)	Emissions per Construction Activity (lb/activity) ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Schedule Parameters Year in which Activity would Occur 2013	2014	2016	2018	2019
PHASE 1 SUBSTATIONS - NORTHSTAR															
Complete Civil Construction	5.0	42	327	16	56	16	8	199	0	43,747	0	1	0	0	0
Complete Physical Construction	20.0	121	264	15	70	15	7	263	0	40,261	0	1	0	0	0
Complete Electrical Construction	20.0	113	894	39	48	38	5	750	1	127,430	0	1	0	0	0
Complete System Protection Construction	20.0	37	262	15	48	15	5	237	0	37,503	0	1	0	0	0
Complete Offsite Improvements and Mitigations	20.0	99	750	35	48	34	5	416	1	107,197	0	1	0	0	0
PHASE 2 SUBSTATIONS - KINGS BEACH															
Complete Civil Construction	5.0	44	346	16	65	16	8	206	1	47,602	0	0	1	0	0
Complete Physical Construction	20.0	125	1,007	47	86	47	9	599	1	139,471	0	0	1	0	0
Complete Electrical Construction	20.0	116	923	39	60	39	6	760	1	133,212	0	0	1	0	0
Complete System Protection Construction	20.0	39	282	15	56	15	6	244	0	41,357	0	0	1	0	0
Complete Offsite Improvements and Mitigations	20.0	101	770	35	56	35	6	423	1	111,051	0	0	1	0	0
PHASE 2 SUBSTATION - NORTHSTAR															
Complete Civil Construction	5.0	42	327	16	56	16	8	199	0	43,747	0	0	1	0	0
Complete Physical Construction	20.0	121	968	46	70	46	7	586	1	131,762	0	0	1	0	0
Complete Electrical Construction	20.0	113	894	39	48	38	5	750	1	127,430	0	0	1	0	0
Complete System Protection Construction	20.0	37	262	15	48	15	5	237	0	37,503	0	0	1	0	0
Complete Offsite Improvements and Mitigations	20.0	99	750	35	48	34	5	416	1	107,197	0	0	1	0	0
PHASE 2 SUBSTATIONS - NORTH TRUCKEE											0	0	0	0	0
Complete Civil Construction	5.0	44	341	16	63	16	8	204	1	46,638	0	0	1	0	0
Complete Physical Construction	20.0	124	997	47	82	46	8	596	1	137,544	0	0	1	0	0
Complete Electrical Construction	20.0	115	913	39	56	39	6	757	1	131,285	0	0	1	0	0
Complete System Protection Construction	20.0	38	272	15	52	15	5	240	0	39,430	0	0	1	0	0
Complete Offsite Improvements and Mitigations	20.0	101	770	35	56	35	6	423	1	111,051	0	0	1	0	0
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY															
Complete Civil Construction	20.0	172	1,336	64	238	64	32	806	2	180,770	0	0	1	0	0
Complete Physical Construction	20.0	124	997	47	82	46	8	596	1	137,544	0	0	1	0	0
Complete Electrical Construction	15.0	86	685	29	42	29	4	567	1	98,464	0	0	1	0	0
Complete System Protection Construction	10.0	19	136	8	26	8	3	120	0	19,715	0	0	1	0	0
Complete Offsite Improvements and Mitigations	20.0	101	770	35	56	35	6	423	1	111,051	0	0	1	0	0
PHASE 3 SUBSTATIONS - TAHOE CITY															
Complete Civil Construction	20.0	176	1,375	65	255	65	33	819	2	188,479	0	0	0	0	1
Complete Physical Construction	20.0	126	1,027	47	94	47	10	606	2	143,326	0	0	0	0	1
Complete Electrical Construction	20.0	117	943	40	68	40	7	767	1	137,067	0	0	0	0	1
Complete System Protection Construction	20.0	40	292	16	60	16	6	247	0	43,285	0	0	0	0	1
Complete Offsite Improvements and Mitigations	20.0	103	789	36	64	36	6	429	1	114,906	0	0	0	0	1
PHASE 3 SUBSTATIONS - SQUAW VALLEY															
Complete Civil Construction	10.0	88	688	33	127	32	17	410	1	94,240	0	0	0	0	1
Complete Physical Construction	20.0	125	1,017	47	90	47	9	603	2	141,399	0	0	0	0	1
Complete Electrical Construction	20.0	116	933	40	64	40	6	763	1	135,139	0	0	0	0	1
Complete System Protection Construction	20.0	40	292	16	60	16	6	247	0	43,285	0	0	0	0	1
Complete Offsite Improvements and Mitigations	20.0	102	779	35	60	35	6	426	1	112,978	0	0	0	0	1
PHASE 3 SUBSTATIONS - KINGS BEACH															
Complete Civil Construction	20.0	171	1,326	64	234	63	31	802	2	178,843	0	0	0	0	1
Complete Physical Construction	20.0	123	987	46	78	46	8	593	1	135,617	0	0	0	0	1
Complete Electrical Construction	20.0	115	913	39	56	39	6	757	1	131,285	0	0	0	0	1
Complete System Protection Construction	20.0	38	272	15	52	15	5	240	0	39,430	0	0	0	0	1
Complete Offsite Improvements and Mitigations	20.0	100	760	35	52	35	5	419	1	109,124	0	0	0	0	1

Summary of Total Construction Emissions by Phase

PEA Alternative

Task Name	Work Days (No.)	Emissions per Construction Activity (lb/activity) ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Schedule Parameters Year in which Activity would Occur 2013	2014	2016	2018	2019
PHASE 1 TRANSMISSION - 650 LINE UPGRADE															
Complete Environmental Construction (USFS Out	20.0	283	2,367	100	335	99	41	1,202	3	314,494	1	0	0	0	0
Complete Road Construction (USFS Out of Basin (	20.0	283	2,367	100	335	99	41	1,202	3	314,494	1	0	0	0	0
Complete Logging Operations (USFS Out of Basin	20.0	597	5,448	209	185	207	19	2,370	8	830,517	1	0	0	0	0
Complete Environmental Construction (Refresh a	20.0	283	2,367	100	335	99	41	1,202	3	314,494	0	1	0	0	0
Complete Road Construction (Remaining)	20.0	283	2,367	100	335	99	41	1,202	3	314,494	0	1	0	0	0
Complete Logging Operations (Remaining)	20.0	597	5,448	209	185	207	19	2,370	8	830,517	0	1	0	0	0
Complete Foundation Construction	30.0	227	1,935	72	312	71	31	1,060	3	298,263	0	1	0	0	0
Complete Line Construction	90.0	2,126	17,531	759	2,221	756	275	11,385	24	2,394,536	0	1	0	0	0
Complete Removals	30.0	349	3,013	123	349	122	35	1,580	5	427,495	0	1	0	0	0
PHASE 2 TRANSMISSION - 650 LINE UPGRADE															
Complete Environmental Construction	10.0	144	1,203	50	176	50	22	608	2	161,102	0	0	1	0	0
Complete Logging Operations	5.0	158	1,498	57	64	56	7	631	2	235,214	0	0	1	0	0
Complete Road Construction	5.0	74	624	26	97	26	12	312	1	84,887	0	0	1	0	0
Complete Foundation Construction	10.0	78	674	25	116	25	12	363	1	105,203	0	0	1	0	0
Complete Line Construction	20.0	473	3,906	169	498	168	61	2,533	5	534,046	0	0	1	0	0
Complete Removals	5.0	73	608	23	65	23	7	285	1	98,250	0	0	1	0	0
PHASE 3 - 625 LINE UPGRADE															
Complete Environmental Construction	40.0	902	7,542	321	1,049	320	136	3,729	10	969,308	0	0	0	1	0
Complete Road Construction	60.0	1,351	11,284	481	1,561	478	202	5,584	15	1,448,181	0	0	0	1	0
Complete Logging Operations	58.0	1,736	15,892	611	549	604	57	6,899	23	2,427,321	0	0	0	1	0
Complete Foundation Construction	40.0	301	2,560	95	408	95	41	1,407	4	393,830	0	0	0	0	1
Complete Line Construction	80.0	2,130	17,402	729	2,007	727	247	10,565	23	2,502,589	0	0	0	0	1
Complete Removals	30.0	436	3,605	139	374	138	38	1,697	5	580,827	0	0	0	0	1
mass conversion rate		2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,205 lb/MT					

Source of conversion rates: onlineconversion.com/weight_common.htm

Summary of Total Construction Emissions by Phase

	ROG	NOx	PM10 Exh	PM10 Dust	Total PM10	PM2.5 Exh	PM2.5 Dust	Total PM2.5	CO	SOx	CO2e
TOTAL EMISSIONS	**8.3**	**69.1**	**2.9**	**7.3**	**10.2**	**2.9**	**0.9**	**3.8**	**38.7**	**0.10**	**8,899**
(units)	tons	tons	tons	tons	tons	tons	tons	tons	tons	tons	MT
Annual Emissions											
2013	**0.6**	**5.1**	**0.2**	**0.4**	**0.6**	**0.2**	**0.1**	**0.3**	**2.4**	**0.01**	**662**
2014	**2.1**	**17.6**	**0.7**	**2.0**	**2.7**	**0.7**	**0.2**	**1.0**	**10.3**	**0.03**	**2,239**
2016	**1.4**	**11.1**	**0.5**	**1.2**	**1.7**	**0.5**	**0.1**	**0.6**	**6.9**	**0.02**	**1,430**
2018	**2.0**	**17.4**	**0.7**	**1.6**	**2.3**	**0.7**	**0.2**	**0.9**	**8.1**	**0.02**	**2,198**
2019	**2.2**	**18.0**	**0.8**	**2.1**	**2.9**	**0.8**	**0.2**	**1.0**	**10.9**	**0.03**	**2,370**
(units)	tons/year	tons/year	tons/year	tons/year	tons/year	tons/year	tons/year	tons/year	tons/year	tons/year	MT/year

Daily ROG Emissions by Schedule
PEA Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4
SUBSTATIONS														
PHASE 1 SUBSTATIONS - NORTHSTAR														
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0								
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0								
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0								
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0								
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0								
PHASE 2 SUBSTATIONS - KINGS BEACH														
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0								
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0								
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0								
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0								
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0								
PHASE 2 SUBSTATION - NORTHSTAR														
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0								
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0								
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0								
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0								
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0								
PHASE 2 SUBSTATIONS - NORTH TRUCKEE														
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1								
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1								
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1								
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1								
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1								
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY														
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0								
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0								
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0								
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0								
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0								
PHASE 3 SUBSTATIONS - TAHOE CITY														
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0								
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0								
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0								
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0								
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0								
PHASE 3 SUBSTATIONS - SQUAW VALLEY														
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0								
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0								
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0								
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0								
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0								
PHASE 3 SUBSTATIONS - KINGS BEACH														
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0								
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0								
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0								
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0								
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0								
TRANSMISSIION LINES	0.0													
PHASE 1 TRANSMISSION - 650 LINE UPGRADE														
Complete Environmental Construction (USFS Out of Basin only)	20.0	Fri 8/16/13	Thu 9/12/13	1	0	0	14	14	14	14	14			
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			14	14	14	14	14	
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					30	30	30	30
Complete Environmental Construction (Refresh and Remaining)	20.0	Thu 5/1/14	Wed 5/28/14	1	1	1								
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0								
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0								
Complete Foundation Construction	30.0	Thu 5/15/14	Wed 6/25/14	1	1	1								
Complete Line Construction	90.0	Thu 6/12/14	Wed 10/15/14	1	1	1								
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1								
PHASE 2 TRANSMISSION - 650 LINE UPGRADE														
Complete Environmental Construction	10.0	Tue 5/3/16	Mon 5/16/16	1	1	0								
Complete Logging Operations	5.0	Tue 5/17/16	Mon 5/23/16	1	1	0								
Complete Road Construction	5.0	Tue 5/24/16	Mon 5/30/16	1	1	0								
Complete Foundation Construction	10.0	Tue 5/31/16	Mon 6/13/16	1	1	0								
Complete Line Construction	20.0	Mon 6/20/16	Fri 7/15/16	1	1	0								
Complete Removals	5.0	Mon 7/11/16	Fri 7/15/16	1	1	0								
PHASE 3 - 625 LINE UPGRADE														
Complete Environmental Construction	40.0	Wed 5/2/18	Tue 6/26/18	1	1	0								
Complete Road Construction	60.0	Wed 5/30/18	Tue 8/21/18	1	1	0								
Complete Logging Operations	58.0	Wed 7/11/18	Fri 9/28/18	1	1	0								
Complete Foundation Construction	40.0	Wed 5/1/19	Tue 6/25/19	1	1	0								
Complete Line Construction	80.0	Wed 5/29/19	Tue 9/17/19	1	1	0								
Complete Removals	30.0	Wed 8/7/19	Tue 9/17/19	1	1	0								
						Total Emiss in PCAPCD juris.	14	14	28	28	58	44	44	30
						Exceedance of PCAPCD's TOS of 82 lb/day?	—	—	—	—	—	—	—	—
						Total Emiss in LTAB	0	0	0	0	0	0	0	0
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—

Daily ROG Emissions by Schedule
PEA Alternative

		2014																	
		May					Jun				Jul				Aug				
Phase Name	10/11	5/2	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29
SUBSTATIONS																			
PHASE 1 SUBSTATIONS - NORTHSTAR																			
Complete Civil Construction			8																
Complete Physical Construction						6	6	6	6										
Complete Electrical Construction										6	6	6	6						
Complete System Protection Construction														2	2	2	2		
Complete Offsite Improvements and Mitigations																		5	5
PHASE 2 SUBSTATIONS - KINGS BEACH																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations																			
PHASE 2 SUBSTATION - NORTHSTAR																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations																			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations																			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations																			
PHASE 3 SUBSTATIONS - TAHOE CITY																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations																			
PHASE 3 SUBSTATIONS - SQUAW VALLEY																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations																			
PHASE 3 SUBSTATIONS - KINGS BEACH																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations																			
TRANSMISSIION LINES																			
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																			
Complete Environmental Construction (USFS Out of Basin only)																			
Complete Road Construction (USFS Out of Basin only)																			
Complete Logging Operations (USFS Out of Basin only)	30																		
Complete Environmental Construction (Refresh and Remaining)		14	14	14	14	14													
Complete Road Construction (Remaining)				14	14	14	14	14											
Complete Logging Operations (Remaining)						30	30	30	30	30									
Complete Foundation Construction				8	8	8	8	8	8	8									
Complete Line Construction								24	24	24	24	24	24	24	24	24	24	24	24
Complete Removals																			
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																			
Complete Environmental Construction																			
Complete Logging Operations																			
Complete Road Construction																			
Complete Foundation Construction																			
Complete Line Construction																			
Complete Removals																			
PHASE 3 - 625 LINE UPGRADE																			
Complete Environmental Construction																			
Complete Road Construction																			
Complete Logging Operations																			
Complete Foundation Construction																			
Complete Line Construction																			
Complete Removals																			
	30	14	23	36	36	72	58	81	67	67	29	29	29	25	25	25	25	29	29
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	14	14	36	36	66	52	75	61	61	24	24	24	24	24	24	24	24	24
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	14	14	22	22	22	8	31	31	31	24	24	24	24	24	24	24	24	24
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily ROG Emissions by Schedule
PEA Alternative

								2016											
	Sep				Oct			May				Jun				Jul			
Phase Name	9/5	9/12	9/19	9/26	10/3	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23
SUBSTATIONS																			
PHASE 1 SUBSTATIONS - NORTHSTAR																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations	5	5																	
PHASE 2 SUBSTATIONS - KINGS BEACH																			
Complete Civil Construction								9											
Complete Physical Construction									6	6	6	6							
Complete Electrical Construction													6	6	6	6			
Complete System Protection Construction																	2	2	2
Complete Offsite Improvements and Mitigations																			
PHASE 2 SUBSTATION - NORTHSTAR																			
Complete Civil Construction								8											
Complete Physical Construction									6	6	6	6							
Complete Electrical Construction													6	6	6	6			
Complete System Protection Construction																	2	2	2
Complete Offsite Improvements and Mitigations																			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																			
Complete Civil Construction								9											
Complete Physical Construction									6	6	6	6							
Complete Electrical Construction													6	6	6	6			
Complete System Protection Construction																	2	2	2
Complete Offsite Improvements and Mitigations																			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																			
Complete Civil Construction																	9	9	9
Complete Physical Construction													6	6	6	6			
Complete Electrical Construction										6	6	6							
Complete System Protection Construction								2	2										
Complete Offsite Improvements and Mitigations																			
PHASE 3 SUBSTATIONS - TAHOE CITY																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations																			
PHASE 3 SUBSTATIONS - SQUAW VALLEY																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations																			
PHASE 3 SUBSTATIONS - KINGS BEACH																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations																			
TRANSMISSIION LINES																			
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																			
Complete Environmental Construction (USFS Out of Basin only)																			
Complete Road Construction (USFS Out of Basin only)																			
Complete Logging Operations (USFS Out of Basin only)																			
Complete Environmental Construction (Refresh and Remaining)																			
Complete Road Construction (Remaining)																			
Complete Logging Operations (Remaining)																			
Complete Foundation Construction																			
Complete Line Construction	24	24	24	24	24	24	24												
Complete Removals	12	12	12	12	12	12	12												
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																			
Complete Environmental Construction								14	14	14									
Complete Logging Operations										32	32								
Complete Road Construction											15	15							
Complete Foundation Construction												8	8	8					
Complete Line Construction															24	24	24	24	
Complete Removals																		15	
PHASE 3 - 625 LINE UPGRADE																			
Complete Environmental Construction																			
Complete Road Construction																			
Complete Logging Operations																			
Complete Foundation Construction																			
Complete Line Construction																			
Complete Removals																			
	40	40	35	35	35	35	35	34	29	64	64	41	25	25	41	41	36	51	12
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	35	35	35	35	35	35	35	25	22	58	58	35	20	20	36	36	34	49	11
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	35	35	35	35	35	35	35	9	6	6	6	6	6	6	6	6	2	2	2
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily ROG Emissions by Schedule
PEA Alternative

						2018														
		Aug				May				Jun					Jul				Aug	
Phase Name	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10
SUBSTATIONS																				
PHASE 1 SUBSTATIONS - NORTHSTAR																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations																				
PHASE 2 SUBSTATIONS - KINGS BEACH																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction	2																			
Complete Offsite Improvements and Mitigations		5	5	5	5															
PHASE 2 SUBSTATION - NORTHSTAR																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction	2																			
Complete Offsite Improvements and Mitigations		5	5	5	5															
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction	2																			
Complete Offsite Improvements and Mitigations		5	5	5	5															
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																				
Complete Civil Construction	9																			
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations		5	5	5	5															
PHASE 3 SUBSTATIONS - TAHOE CITY																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations																				
PHASE 3 SUBSTATIONS - SQUAW VALLEY																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations																				
PHASE 3 SUBSTATIONS - KINGS BEACH																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations																				
TRANSMISSIION LINES																				
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																				
Complete Environmental Construction (USFS Out of Basin only)																				
Complete Road Construction (USFS Out of Basin only)																				
Complete Logging Operations (USFS Out of Basin only)																				
Complete Environmental Construction (Refresh and Remaining)																				
Complete Road Construction (Remaining)																				
Complete Logging Operations (Remaining)																				
Complete Foundation Construction																				
Complete Line Construction																				
Complete Removals																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																				
Complete Environmental Construction																				
Complete Logging Operations																				
Complete Road Construction																				
Complete Foundation Construction																				
Complete Line Construction																				
Complete Removals																				
PHASE 3 - 625 LINE UPGRADE																				
Complete Environmental Construction						23	23	23	23	23	23	23	23	23						
Complete Road Construction										23	23	23	23	23	23	23	23	23	23	23
Complete Logging Operations																30	30	30	30	30
Complete Foundation Construction																				
Complete Line Construction																				
Complete Removals																				
	12	15	15	15	15	23	23	23	23	45	45	45	45	45	23	52	52	52	52	52
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	11	10	10	10	10	23	23	23	23	45	45	45	45	45	23	52	52	52	52	52
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	2	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily ROG Emissions by Schedule
PEA Alternative

								2019												
				Sep				May					Jun				Jul			
Phase Name	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26
SUBSTATIONS																				
PHASE 1 SUBSTATIONS - NORTHSTAR																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations																				
PHASE 2 SUBSTATIONS - KINGS BEACH																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations																				
PHASE 2 SUBSTATION - NORTHSTAR																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations																				
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations																				
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations																				
PHASE 3 SUBSTATIONS - TAHOE CITY																				
Complete Civil Construction								9	9	9	9									
Complete Physical Construction											6	6	6	6						
Complete Electrical Construction															6	6	6	6		
Complete System Protection Construction																			2	2
Complete Offsite Improvements and Mitigations																				
PHASE 3 SUBSTATIONS - SQUAW VALLEY																				
Complete Civil Construction								9	9											
Complete Physical Construction										6	6	6	6							
Complete Electrical Construction														6	6	6	6			
Complete System Protection Construction																		2	2	2
Complete Offsite Improvements and Mitigations																				
PHASE 3 SUBSTATIONS - KINGS BEACH																				
Complete Civil Construction												9	9	9	9					
Complete Physical Construction																6	6	6	6	
Complete Electrical Construction																				6
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations																				
TRANSMISSIION LINES																				
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																				
Complete Environmental Construction (USFS Out of Basin only)																				
Complete Road Construction (USFS Out of Basin only)																				
Complete Logging Operations (USFS Out of Basin only)																				
Complete Environmental Construction (Refresh and Remaining)																				
Complete Road Construction (Remaining)																				
Complete Logging Operations (Remaining)																				
Complete Foundation Construction																				
Complete Line Construction																				
Complete Removals																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																				
Complete Environmental Construction																				
Complete Logging Operations																				
Complete Road Construction																				
Complete Foundation Construction																				
Complete Line Construction																				
Complete Removals																				
PHASE 3 - 625 LINE UPGRADE																				
Complete Environmental Construction																				
Complete Road Construction	23	23																		
Complete Logging Operations	30	30	30	30	30	30	30													
Complete Foundation Construction								8	8	8	8	8	8	8	8	8				
Complete Line Construction												27	27	27	27	27	27	27	27	27
Complete Removals																				
	52	52	30	30	30	30	30	25	25	23	29	55	55	55	54	52	44	41	37	36
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	52	52	30	30	30	30	30	16	16	16	23	49	49	49	49	46	39	39	35	34
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily ROG Emissions by Schedule
PEA Alternative

	Aug					Sep				Oct	
Phase Name	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS											
PHASE 1 SUBSTATIONS - NORTHSTAR											
Complete Civil Construction											
Complete Physical Construction											
Complete Electrical Construction											
Complete System Protection Construction											
Complete Offsite Improvements and Mitigations											
PHASE 2 SUBSTATIONS - KINGS BEACH											
Complete Civil Construction											
Complete Physical Construction											
Complete Electrical Construction											
Complete System Protection Construction											
Complete Offsite Improvements and Mitigations											
PHASE 2 SUBSTATION - NORTHSTAR											
Complete Civil Construction											
Complete Physical Construction											
Complete Electrical Construction											
Complete System Protection Construction											
Complete Offsite Improvements and Mitigations											
PHASE 2 SUBSTATIONS - NORTH TRUCKEE											
Complete Civil Construction											
Complete Physical Construction											
Complete Electrical Construction											
Complete System Protection Construction											
Complete Offsite Improvements and Mitigations											
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY											
Complete Civil Construction											
Complete Physical Construction											
Complete Electrical Construction											
Complete System Protection Construction											
Complete Offsite Improvements and Mitigations											
PHASE 3 SUBSTATIONS - TAHOE CITY											
Complete Civil Construction											
Complete Physical Construction											
Complete Electrical Construction											
Complete System Protection Construction	2	2									
Complete Offsite Improvements and Mitigations			5	5	5	5					
PHASE 3 SUBSTATIONS - SQUAW VALLEY											
Complete Civil Construction											
Complete Physical Construction											
Complete Electrical Construction											
Complete System Protection Construction	2										
Complete Offsite Improvements and Mitigations		5	5	5	5						
PHASE 3 SUBSTATIONS - KINGS BEACH											
Complete Civil Construction											
Complete Physical Construction											
Complete Electrical Construction	6	6	6								
Complete System Protection Construction				2	2	2	2				
Complete Offsite Improvements and Mitigations								5	5	5	5
TRANSMISSIION LINES											
PHASE 1 TRANSMISSION - 650 LINE UPGRADE											
Complete Environmental Construction (USFS Out of Basin only)											
Complete Road Construction (USFS Out of Basin only)											
Complete Logging Operations (USFS Out of Basin only)											
Complete Environmental Construction (Refresh and Remaining)											
Complete Road Construction (Remaining)											
Complete Logging Operations (Remaining)											
Complete Foundation Construction											
Complete Line Construction											
Complete Removals											
PHASE 2 TRANSMISSION - 650 LINE UPGRADE											
Complete Environmental Construction											
Complete Logging Operations											
Complete Road Construction											
Complete Foundation Construction											
Complete Line Construction											
Complete Removals											
PHASE 3 - 625 LINE UPGRADE											
Complete Environmental Construction											
Complete Road Construction											
Complete Logging Operations											
Complete Foundation Construction											
Complete Line Construction	27	27	27	27	27	27	27	27			
Complete Removals		15	15	15	15	15	15	15			
	36	54	57	53	53	48	43	46	5	5	5
	—	—	—	—	—	—	—	—	—	—	—
	34	49	52	48	48	48	43	46	5	5	5
	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—

Daily NOx Emissions by Schedule
PEA Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4
SUBSTATIONS														
PHASE 1 SUBSTATIONS - NORTHSTAR														
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0								
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0								
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0								
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0								
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0								
PHASE 2 SUBSTATIONS - KINGS BEACH														
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0								
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0								
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0								
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0								
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0								
PHASE 2 SUBSTATION - NORTHSTAR														
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0								
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0								
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0								
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0								
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0								
PHASE 2 SUBSTATIONS - NORTH TRUCKEE														
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1								
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1								
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1								
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1								
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1								
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY														
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0								
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0								
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0								
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0								
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0								
PHASE 3 SUBSTATIONS - TAHOE CITY														
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0								
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0								
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0								
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0								
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0								
PHASE 3 SUBSTATIONS - SQUAW VALLEY														
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0								
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0								
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0								
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0								
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0								
PHASE 3 SUBSTATIONS - KINGS BEACH														
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0								
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0								
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0								
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0								
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0								
TRANSMISSIION LINES														
PHASE 1 TRANSMISSION - 650 LINE UPGRADE														
Complete Environmental Construction (USFS Out of Basin only)	20.0	Fri 8/16/13	Thu 9/12/13	1	0	0	118	118	118	118	118			
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			118	118	118	118	118	
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					272	272	272	272
Complete Environmental Construction (Refresh and Remaining)	20.0	Thu 5/1/14	Wed 5/28/14	1	1	1								
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0								
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0								
Complete Foundation Construction	30.0	Thu 5/15/14	Wed 6/25/14	1	1	1								
Complete Line Construction	90.0	Thu 6/12/14	Wed 10/15/14	1	1	1								
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1								
PHASE 2 TRANSMISSION - 650 LINE UPGRADE														
Complete Environmental Construction	10.0	Tue 5/3/16	Mon 5/16/16	1	1	0								
Complete Logging Operations	5.0	Tue 5/17/16	Mon 5/23/16	1	1	0								
Complete Road Construction	5.0	Tue 5/24/16	Mon 5/30/16	1	1	0								
Complete Foundation Construction	10.0	Tue 5/31/16	Mon 6/13/16	1	1	0								
Complete Line Construction	20.0	Mon 6/20/16	Fri 7/15/16	1	1	0								
Complete Removals	5.0	Mon 7/11/16	Fri 7/15/16	1	1	0								
PHASE 3 - 625 LINE UPGRADE														
Complete Environmental Construction	40.0	Wed 5/2/18	Tue 6/26/18	1	1	0								
Complete Road Construction	60.0	Wed 5/30/18	Tue 8/21/18	1	1	0								
Complete Logging Operations	58.0	Wed 7/11/18	Fri 9/28/18	1	1	0								
Complete Foundation Construction	40.0	Wed 5/1/19	Tue 6/25/19	1	1	0								
Complete Line Construction	80.0	Wed 5/29/19	Tue 9/17/19	1	1	0								
Complete Removals	30.0	Wed 8/7/19	Tue 9/17/19	1	1	0								
	WITHOUT MITIGATION					Total Emiss in PCAPCD juris.	118	118	237	237	509	391	391	272
						Exceedance of PCAPCD's TOS of 82 lb/day?	yes	yes	yes	yes	yes	yes	yes	yes
						Number of weeks PCAPCD's TOS is exceeded	94							
						Total Emiss in LTAB	0	0	0	0	0	0	0	0
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded in LTAB	79							
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—
						Number of weeks NSAQMD's TOS is exceeded	22							
	WITH MITIGATION MEASURE 4.13-1b													
						Reduction in NOx from Off-Road Equip with implementation of MM 4.13-1b	20%							
						Total Emiss in PCAPCD juris.	95	95	189	189	407	313	313	218
						Exceedance of PCAPCD's TOS of 82 lb/day?	yes	yes	yes	yes	yes	yes	yes	yes
						Number of weeks PCAPCD's TOS is exceeded	92							
						Total Emiss in LTAB	0	0	0	0	0	0	0	0
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded in LTAB	79							
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—

Daily NOx Emissions by Schedule
PEA Alternative

		2014																	
		May					Jun				Jul				Aug				
Phase Name	10/11	5/2	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29
SUBSTATIONS																			
PHASE 1 SUBSTATIONS - NORTHSTAR																			
Complete Civil Construction			65																
Complete Physical Construction						13	13	13	13										
Complete Electrical Construction										45	45	45	45						
Complete System Protection Construction														13	13	13	13		
Complete Offsite Improvements and Mitigations																		37	37
PHASE 2 SUBSTATIONS - KINGS BEACH																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations																			
PHASE 2 SUBSTATION - NORTHSTAR																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations																			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations																			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations																			
PHASE 3 SUBSTATIONS - TAHOE CITY																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations																			
PHASE 3 SUBSTATIONS - SQUAW VALLEY																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations																			
PHASE 3 SUBSTATIONS - KINGS BEACH																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations																			
TRANSMISSIION LINES																			
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																			
Complete Environmental Construction (USFS Out of Basin only)																			
Complete Road Construction (USFS Out of Basin only)																			
Complete Logging Operations (USFS Out of Basin only)	272																		
Complete Environmental Construction (Refresh and Remaining)		118	118	118	118	118													
Complete Road Construction (Remaining)				118	118	118	118	118											
Complete Logging Operations (Remaining)						272	272	272	272	272									
Complete Foundation Construction				64	64	64	64	64	64	64									
Complete Line Construction								195	195	195	195	195	195	195	195	195	195	195	195
Complete Removals																			
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																			
Complete Environmental Construction																			
Complete Logging Operations																			
Complete Road Construction																			
Complete Foundation Construction																			
Complete Line Construction																			
Complete Removals																			
PHASE 3 - 625 LINE UPGRADE																			
Complete Environmental Construction																			
Complete Road Construction																			
Complete Logging Operations																			
Complete Foundation Construction																			
Complete Line Construction																			
Complete Removals																			
	272	118	184	301	301	587	468	663	545	576	239	239	239	208	208	208	208	232	232
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	0	118	118	301	301	574	455	650	532	532	195	195	195	195	195	195	195	195	195
	—	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	0	118	118	183	183	183	64	259	259	259	195	195	195	195	195	195	195	195	195
	—	—	—	yes	yes	yes	—	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	218	95	147	241	241	469	375	531	436	461	192	192	192	166	166	166	166	186	186
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	0	95	95	241	241	459	364	520	425	425	156	156	156	156	156	156	156	156	156
	—	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	0	95	95	146	146	146	52	207	207	207	156	156	156	156	156	156	156	156	156
	—	—	—	yes	yes	yes	—	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes

Daily NOx Emissions by Schedule
PEA Alternative

								2016											
	Sep				Oct			May				Jun				Jul			
Phase Name	9/5	9/12	9/19	9/26	10/3	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23
SUBSTATIONS																			
PHASE 1 SUBSTATIONS - NORTHSTAR																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations	37	37																	
PHASE 2 SUBSTATIONS - KINGS BEACH																			
Complete Civil Construction								69											
Complete Physical Construction									50	50	50	50							
Complete Electrical Construction													46	46	46	46			
Complete System Protection Construction																	14	14	14
Complete Offsite Improvements and Mitigations																			
PHASE 2 SUBSTATION - NORTHSTAR																			
Complete Civil Construction								65											
Complete Physical Construction									48	48	48	48							
Complete Electrical Construction													45	45	45	45			
Complete System Protection Construction																	13	13	13
Complete Offsite Improvements and Mitigations																			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																			
Complete Civil Construction								68											
Complete Physical Construction									50	50	50	50							
Complete Electrical Construction													46	46	46	46			
Complete System Protection Construction																	14	14	14
Complete Offsite Improvements and Mitigations																			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																			
Complete Civil Construction																	67	67	67
Complete Physical Construction													50	50	50	50			
Complete Electrical Construction										46	46	46							
Complete System Protection Construction								14	14										
Complete Offsite Improvements and Mitigations																			
PHASE 3 SUBSTATIONS - TAHOE CITY																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations																			
PHASE 3 SUBSTATIONS - SQUAW VALLEY																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations																			
PHASE 3 SUBSTATIONS - KINGS BEACH																			
Complete Civil Construction																			
Complete Physical Construction																			
Complete Electrical Construction																			
Complete System Protection Construction																			
Complete Offsite Improvements and Mitigations																			
TRANSMISSIION LINES																			
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																			
Complete Environmental Construction (USFS Out of Basin only)																			
Complete Road Construction (USFS Out of Basin only)																			
Complete Logging Operations (USFS Out of Basin only)																			
Complete Environmental Construction (Refresh and Remaining)																			
Complete Road Construction (Remaining)																			
Complete Logging Operations (Remaining)																			
Complete Foundation Construction																			
Complete Line Construction	195	195	195	195	195	195	195												
Complete Removals	100	100	100	100	100	100	100												
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																			
Complete Environmental Construction								120	120	120									
Complete Logging Operations										300	300								
Complete Road Construction											125	125							
Complete Foundation Construction												67	67	67					
Complete Line Construction															195	195	195	195	
Complete Removals																		122	
PHASE 3 - 625 LINE UPGRADE																			
Complete Environmental Construction																			
Complete Road Construction																			
Complete Logging Operations																			
Complete Foundation Construction																			
Complete Line Construction																			
Complete Removals																			
	333	333	295	295	295	295	295	268	233	564	569	337	208	208	336	336	289	411	94
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	295	295	295	295	295	295	295	203	184	516	520	288	163	163	291	291	276	398	81
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—
	295	295	295	295	295	295	295	68	50	50	50	50	46	46	46	46	14	14	14
	yes	yes	yes	yes	yes	yes	yes	—	—	—	—	—	—	—	—	—	—	—	—
	266	266	236	236	236	236	236	215	186	452	455	269	167	167	269	269	231	329	75
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—
	236	236	236	236	236	236	236	163	147	413	416	231	131	131	233	233	221	318	65
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—
	236	236	236	236	236	236	236	55	40	40	40	40	37	37	37	37	11	11	11
	yes	yes	yes	yes	yes	yes	yes	—	—	—	—	—	—	—	—	—	—	—	—

Daily NOx Emissions by Schedule
PEA Alternative

						2018														
		Aug				May				Jun					Jul				Aug	
Phase Name	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10
SUBSTATIONS																				
PHASE 1 SUBSTATIONS - NORTHSTAR																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations																				
PHASE 2 SUBSTATIONS - KINGS BEACH																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction	14																			
Complete Offsite Improvements and Mitigations		38	38	38	38															
PHASE 2 SUBSTATION - NORTHSTAR																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction	13																			
Complete Offsite Improvements and Mitigations		37	37	37	37															
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction	14																			
Complete Offsite Improvements and Mitigations		38	38	38	38															
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																				
Complete Civil Construction	67																			
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations		38	38	38	38															
PHASE 3 SUBSTATIONS - TAHOE CITY																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations																				
PHASE 3 SUBSTATIONS - SQUAW VALLEY																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations																				
PHASE 3 SUBSTATIONS - KINGS BEACH																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations																				
TRANSMISSIION LINES																				
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																				
Complete Environmental Construction (USFS Out of Basin only)																				
Complete Road Construction (USFS Out of Basin only)																				
Complete Logging Operations (USFS Out of Basin only)																				
Complete Environmental Construction (Refresh and Remaining)																				
Complete Road Construction (Remaining)																				
Complete Logging Operations (Remaining)																				
Complete Foundation Construction																				
Complete Line Construction																				
Complete Removals																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																				
Complete Environmental Construction																				
Complete Logging Operations																				
Complete Road Construction																				
Complete Foundation Construction																				
Complete Line Construction																				
Complete Removals																				
PHASE 3 - 625 LINE UPGRADE																				
Complete Environmental Construction						189	189	189	189	189	189	189	189	189						
Complete Road Construction										188	188	188	188	188	188	188	188	188	188	188
Complete Logging Operations																274	274	274	274	274
Complete Foundation Construction																				
Complete Line Construction																				
Complete Removals																				
	94	114	114	114	114	189	189	189	189	377	377	377	377	377	188	462	462	462	462	462
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	81	77	77	77	77	189	189	189	189	377	377	377	377	377	188	462	462	462	462	462
	—	—	—	—	—	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	14	38	38	38	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	75	92	92	92	92	151	151	151	151	301	301	301	301	301	150	370	370	370	370	370
	—	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	65	62	62	62	62	151	151	151	151	301	301	301	301	301	150	370	370	370	370	370
	—	—	—	—	—	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	11	31	31	31	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily NOx Emissions by Schedule
PEA Alternative

								2019												
				Sep				May					Jun				Jul			
Phase Name	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26
SUBSTATIONS																				
PHASE 1 SUBSTATIONS - NORTHSTAR																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations																				
PHASE 2 SUBSTATIONS - KINGS BEACH																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations																				
PHASE 2 SUBSTATION - NORTHSTAR																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations																				
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations																				
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																				
Complete Civil Construction																				
Complete Physical Construction																				
Complete Electrical Construction																				
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations																				
PHASE 3 SUBSTATIONS - TAHOE CITY																				
Complete Civil Construction								69	69	69	69									
Complete Physical Construction											51	51	51	51						
Complete Electrical Construction															47	47	47	47		
Complete System Protection Construction																			15	15
Complete Offsite Improvements and Mitigations																				
PHASE 3 SUBSTATIONS - SQUAW VALLEY																				
Complete Civil Construction								69	69											
Complete Physical Construction										51	51	51	51							
Complete Electrical Construction														47	47	47	47			
Complete System Protection Construction																		15	15	15
Complete Offsite Improvements and Mitigations																				
PHASE 3 SUBSTATIONS - KINGS BEACH																				
Complete Civil Construction												66	66	66	66					
Complete Physical Construction																49	49	49	49	
Complete Electrical Construction																				46
Complete System Protection Construction																				
Complete Offsite Improvements and Mitigations																				
TRANSMISSIION LINES																				
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																				
Complete Environmental Construction (USFS Out of Basin only)																				
Complete Road Construction (USFS Out of Basin only)																				
Complete Logging Operations (USFS Out of Basin only)																				
Complete Environmental Construction (Refresh and Remaining)																				
Complete Road Construction (Remaining)																				
Complete Logging Operations (Remaining)																				
Complete Foundation Construction																				
Complete Line Construction																				
Complete Removals																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																				
Complete Environmental Construction																				
Complete Logging Operations																				
Complete Road Construction																				
Complete Foundation Construction																				
Complete Line Construction																				
Complete Removals																				
PHASE 3 - 625 LINE UPGRADE																				
Complete Environmental Construction																				
Complete Road Construction	188	188																		
Complete Logging Operations	274	274	274	274	274	274	274													
Complete Foundation Construction								64	64	64	64	64	64	64	64	64				
Complete Line Construction												218	218	218	218	218	218	218	218	218
Complete Removals																				
	462	462	274	274	274	274	274	202	202	184	235	450	450	446	442	425	361	329	296	292
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	462	462	274	274	274	274	274	133	133	133	184	399	399	399	395	378	314	314	281	278
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	370	370	219	219	219	219	219	161	161	147	188	360	360	357	353	340	289	263	237	234
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	370	370	219	219	219	219	219	106	106	106	147	319	319	319	316	302	251	251	225	222
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily NOx Emissions by Schedule
PEA Alternative

	Aug					Sep				Oct	
Phase Name	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS											
PHASE 1 SUBSTATIONS - NORTHSTAR											
Complete Civil Construction											
Complete Physical Construction											
Complete Electrical Construction											
Complete System Protection Construction											
Complete Offsite Improvements and Mitigations											
PHASE 2 SUBSTATIONS - KINGS BEACH											
Complete Civil Construction											
Complete Physical Construction											
Complete Electrical Construction											
Complete System Protection Construction											
Complete Offsite Improvements and Mitigations											
PHASE 2 SUBSTATION - NORTHSTAR											
Complete Civil Construction											
Complete Physical Construction											
Complete Electrical Construction											
Complete System Protection Construction											
Complete Offsite Improvements and Mitigations											
PHASE 2 SUBSTATIONS - NORTH TRUCKEE											
Complete Civil Construction											
Complete Physical Construction											
Complete Electrical Construction											
Complete System Protection Construction											
Complete Offsite Improvements and Mitigations											
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY											
Complete Civil Construction											
Complete Physical Construction											
Complete Electrical Construction											
Complete System Protection Construction											
Complete Offsite Improvements and Mitigations											
PHASE 3 SUBSTATIONS - TAHOE CITY											
Complete Civil Construction											
Complete Physical Construction											
Complete Electrical Construction											
Complete System Protection Construction	15	15									
Complete Offsite Improvements and Mitigations			39	39	39	39					
PHASE 3 SUBSTATIONS - SQUAW VALLEY											
Complete Civil Construction											
Complete Physical Construction											
Complete Electrical Construction											
Complete System Protection Construction	15										
Complete Offsite Improvements and Mitigations		39	39	39	39						
PHASE 3 SUBSTATIONS - KINGS BEACH											
Complete Civil Construction											
Complete Physical Construction											
Complete Electrical Construction	46	46	46								
Complete System Protection Construction				14	14	14	14				
Complete Offsite Improvements and Mitigations								38	38	38	38
TRANSMISSIION LINES											
PHASE 1 TRANSMISSION - 650 LINE UPGRADE											
Complete Environmental Construction (USFS Out of Basin only)											
Complete Road Construction (USFS Out of Basin only)											
Complete Logging Operations (USFS Out of Basin only)											
Complete Environmental Construction (Refresh and Remaining)											
Complete Road Construction (Remaining)											
Complete Logging Operations (Remaining)											
Complete Foundation Construction											
Complete Line Construction											
Complete Removals											
PHASE 2 TRANSMISSION - 650 LINE UPGRADE											
Complete Environmental Construction											
Complete Logging Operations											
Complete Road Construction											
Complete Foundation Construction											
Complete Line Construction											
Complete Removals											
PHASE 3 - 625 LINE UPGRADE											
Complete Environmental Construction											
Complete Road Construction											
Complete Logging Operations											
Complete Foundation Construction											
Complete Line Construction	218	218	218	218	218	218	218	218			
Complete Removals		120	120	120	120	120	120	120			
	292	437	462	430	430	391	351	376	38	38	38
	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—
	278	398	423	391	391	391	351	376	38	38	38
	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—
	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—
	234	350	369	344	344	313	281	301	30	30	30
	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—
	222	318	338	313	313	313	281	301	30	30	30
	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—
	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Emissions by Schedule (including PM10 Exhaust and PM10 dust) PEA Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES																
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	20.0	Fri 8/16/13	Thu 9/12/13	1	0	0	22	22	22	22	22					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			22	22	22	22	22			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					20	20	20	20	20	
Complete Environmental Construction (Refresh and Remaining)	20.0	Thu 5/1/14	Wed 5/28/14	1	1	1										22
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	30.0	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	90.0	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.0	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.0	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.0	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.0	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	20.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.0	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	40.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	60.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	58.0	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	40.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	80.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	30.0	Wed 8/7/19	Tue 9/17/19	1	1	0										
	WITHOUT MITIGATION					Total Emiss in PCAPCD juris.	22	22	44	44	63	41	41	20	20	22
						Exceedance of PCAPCD's TOS of 82 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded	1									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	22
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded in LTAB	1									
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	22
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks NSAQMD's TOS is exceeded	0									
	WITH MITIGATION MEASURE 4.13-1a															
						Minimum proportion of PM10 Exhaust that is from Off-Road Equipment	76%	This value is shown on wksht PEA Emiss by Act & Src. It is conse								
						Reduction in PM10 Exh from Off-Road Equip with implementation of MM 4.13-1a	45%									
						Net Reduction in PM10 Exh	34%	This value is necessary because the 45% reduction in PM10 Exh								
						Total Emiss in PCAPCD juris.	20	20	40	40	56	36	36	16	16	20
						Exceedance of PCAPCD's TOS of 82 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded	1	Thus, implementation of MM 4.13-1a would reduce Maximum								
						Peak Emiss in PCAPCD Juris	82.4									
						2nd Peak Emiss in PCAPCD Juris	72.19									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	20
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded in LTAB	0	Thus, implementation of MM 4.13-1a would reduce Maximum								

Daily PM10 Emissions by Schedule (including F

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	14																					
Complete Physical Construction				4	4	4	4															
Complete Electrical Construction								4	4	4	4											
Complete System Protection Construction												3	3	3	3							
Complete Offsite Improvements and Mitigations																4	4	4	4			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	22	22	22	22																		
Complete Road Construction (Remaining)		22	22	22	22	22																
Complete Logging Operations (Remaining)				20	20	20	20	20														
Complete Foundation Construction		13	13	13	13	13	13	13														
Complete Line Construction						33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
Complete Removals																		16	16	16	16	16
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	36	56	56	80	58	92	70	70	37	37	37	36	36	36	36	37	37	53	53	49	49	49
	—	—	—	—	—	yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	22	56	56	76	54	87	66	66	33	33	33	33	33	33	33	33	33	49	49	49	49	49
	—	—	—	—	—	yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	22	35	35	35	13	46	46	46	33	33	33	33	33	33	33	33	33	49	49	49	49	49
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

ervative to use this value because it is the lowest proportion of PM10 Exhaust that comes from Off-Road Equipment for any individual construction activit

required by MM 4.13-1a would only apply to the portion of PM10 Exh from off-road construction equipment.

33	52	52	72	52	82	62	62	34	34	34	33	33	33	33	34	34	48	48	45	45	45
—	—	—	—	—	yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily Levels of PM10 (total) to less than PCAPCD's threshold of 82 lb/day.

20	52	52	68	48	78	58	58	30	30	30	30	30	30	30	30	30	45	45	45	45	45
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily Levels of PM10 (total) in the LTAB to less than PCAPCD's threshold of 82 lb/day.

Daily PM10 Emissions by Schedule (including F

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			16																			
Complete Physical Construction				7	7	7	7															
Complete Electrical Construction								5	5	5	5											
Complete System Protection Construction												4	4	4	4							
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			14																			
Complete Physical Construction				6	6	6	6															
Complete Electrical Construction								4	4	4	4											
Complete System Protection Construction												3	3	3	3							
Complete Offsite Improvements and Mitigations																4	4	4	4			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			16																			
Complete Physical Construction				6	6	6	6															
Complete Electrical Construction								5	5	5	5											
Complete System Protection Construction												3	3	3	3							
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												15	15	15	15							
Complete Physical Construction								6	6	6	6											
Complete Electrical Construction					5	5	5															
Complete System Protection Construction			3	3																		
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	33	33																				
Complete Removals	16	16																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			23	23	23																	
Complete Logging Operations					24	24																
Complete Road Construction						25	25															
Complete Foundation Construction							14	14	14													
Complete Line Construction										33	33	33	33									
Complete Removals													18									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				34	34	34
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	49	49	57	38	64	66	56	30	30	49	49	55	73	22	22	13	13	13	13	34	34	34
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	49	49	42	33	58	60	50	26	26	45	45	52	70	19	19	9	9	9	9	34	34	34
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	49	49	16	6	6	6	6	5	5	5	5	3	3	3	3	5	5	5	5	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

y (e.g., road construction, line construction, line removal). Moreover, it is based on the proportion of PM10 exhaust from off-road equipment during "Com

45	45	52	35	56	58	51	27	27	44	44	51	67	20	20	11	11	11	11	31	31	31
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
45	45	39	30	51	53	46	23	23	40	40	48	64	17	17	8	8	8	8	31	31	31
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Emissions by Schedule (including P

																				2019		
		Jun					Jul				Aug					Sep				May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				16	16	16
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				16	16	
Complete Physical Construction																						7
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	34	34	34	34	34	34																
Complete Road Construction		34	34	34	34	34	34	34	34	34	34	34	34	34								
Complete Logging Operations								20	20	20	20	20	20	20	20	20	20	20	20			
Complete Foundation Construction																				13	13	13
Complete Line Construction																						
Complete Removals																						
	34	68	68	68	68	68	34	54	54	54	54	54	54	54	20	20	20	20	20	45	45	35
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	34	68	68	68	68	68	34	54	54	54	54	54	54	54	20	20	20	20	20	29	29	29
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	plete Removals" activity (i.e., line removal), as shown on wksht PEA Emiss by Act & Src; however this activity, is not one of the weeks when PM10 emissic																					
	31	63	63	63	63	63	31	48	48	48	48	48	48	48	16	16	16	16	16	42	42	33
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	31	63	63	63	63	63	31	48	48	48	48	48	48	48	16	16	16	16	16	27	27	27
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Emissions by Schedule (including F

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	16																				
Complete Physical Construction	7	7	7	7																	
Complete Electrical Construction					5	5	5	5													
Complete System Protection Construction									4	4	4	4									
Complete Offsite Improvements and Mitigations													5	5	5	5					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	7	7	7																		
Complete Electrical Construction				5	5	5	5														
Complete System Protection Construction								4	4	4	4										
Complete Offsite Improvements and Mitigations												5	5	5	5						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		15	15	15	15																
Complete Physical Construction						6	6	6	6												
Complete Electrical Construction										5	5	5	5								
Complete System Protection Construction														3	3	3	3				
Complete Offsite Improvements and Mitigations																		4	4	4	4
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	13	13	13	13	13	13															
Complete Line Construction		34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34			
Complete Removals												17	17	17	17	17	17	17			
	43	76	76	74	72	64	51	50	48	47	47	65	66	64	64	60	55	56	4	4	4
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	36	69	69	69	67	58	46	46	44	43	43	60	61	60	60	60	55	56	4	4	4
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

ons could peak to their highest, worst-case levels.

	39	69	69	67	66	58	46	45	44	42	42	58	59	58	58	54	50	50	4	4	4
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	33	63	63	63	61	53	41	41	40	39	39	54	55	54	54	54	50	50	4	4	4
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Exhaust Emissions by Schedule

PEA Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES																
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	20.0	Fri 8/16/13	Thu 9/12/13	1	0	0	5	5	5	5	5					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			5	5	5	5	5			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					10	10	10	10	10	
Complete Environmental Construction (Refresh and Remaining)	20.0	Thu 5/1/14	Wed 5/28/14	1	1	1										5
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	30.0	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	90.0	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.0	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.0	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.0	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.0	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	20.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.0	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	40.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	60.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	58.0	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	40.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	80.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	30.0	Wed 8/7/19	Tue 9/17/19	1	1	0										
						Total Emiss in PCAPCD juris.	5	5	10	10	20	15	15	10	10	5
						Exceedance of PCAPCD's TOS of 82 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded	0									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	5
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded in LTAB	0									
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	5
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks NSAQMD's TOS is exceeded	0									

Daily PM10 Exhaust Emissions by Schedule

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	3																					
Complete Physical Construction				1	1	1	1															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	5	5	5	5																		
Complete Road Construction (Remaining)		5	5	5	5	5																
Complete Logging Operations (Remaining)				10	10	10	10	10														
Complete Foundation Construction		2	2	2	2	2	2	2														
Complete Line Construction						8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Complete Removals																		4	4	4	4	4
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	8	12	12	24	19	27	22	23	10	10	10	9	9	9	9	10	10	14	14	13	13	13
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	5	12	12	23	18	26	21	21	8	8	8	8	8	8	8	8	8	13	13	13	13	13
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	5	7	7	7	2	11	11	11	8	8	8	8	8	8	8	8	8	13	13	13	13	13
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Exhaust Emissions by Schedule

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			3																			
Complete Physical Construction				2	2	2	2															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			3																			
Complete Physical Construction				2	2	2	2															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			3																			
Complete Physical Construction				2	2	2	2															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												3	3	3	3							
Complete Physical Construction								2	2	2	2											
Complete Electrical Construction					2	2	2															
Complete System Protection Construction			1	1																		
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	8	8																				
Complete Removals	4	4																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			5	5	5																	
Complete Logging Operations					11	11																
Complete Road Construction						5	5															
Complete Foundation Construction							2	2	2													
Complete Line Construction										8	8	8	8									
Complete Removals													5									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				8	8	8
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	13	13	12	10	23	23	14	9	9	15	15	13	18	5	5	5	5	5	5	8	8	8
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	13	13	9	8	21	21	12	7	7	13	13	12	17	4	4	4	4	4	4	8	8	8
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	13	13	3	2	2	2	2	2	2	2	2	1	1	1	1	2	2	2	2	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Exhaust Emissions by Schedule

																				2019		
		Jun					Jul				Aug					Sep				May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				3	3	3
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				3	3	
Complete Physical Construction																						2
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	8	8	8	8	8	8																
Complete Road Construction		8	8	8	8	8	8	8	8	8	8	8	8	8								
Complete Logging Operations								11	11	11	11	11	11	11	11	11	11	11	11			
Complete Foundation Construction																				2	2	2
Complete Line Construction																						
Complete Removals																						
	8	16	16	16	16	16	8	19	19	19	19	19	19	19	11	11	11	11	11	9	9	8
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	8	16	16	16	16	16	8	19	19	19	19	19	19	19	11	11	11	11	11	6	6	6
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Exhaust Emissions by Schedule

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	3																				
Complete Physical Construction	2	2	2	2																	
Complete Electrical Construction					2	2	2	2													
Complete System Protection Construction									1	1	1	1									
Complete Offsite Improvements and Mitigations													2	2	2	2					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	2	2	2																		
Complete Electrical Construction				2	2	2	2														
Complete System Protection Construction								1	1	1	1										
Complete Offsite Improvements and Mitigations												2	2	2	2						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		3	3	3	3																
Complete Physical Construction						2	2	2	2												
Complete Electrical Construction										2	2	2	2								
Complete System Protection Construction														1	1	1	1				
Complete Offsite Improvements and Mitigations																		2	2	2	2
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	2	2	2	2	2	2															
Complete Line Construction		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9			
Complete Removals												5	5	5	5	5	5	5			
	10	19	19	19	19	18	15	14	13	13	13	18	19	18	18	16	15	15	2	2	2
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	8	17	17	17	17	16	13	13	12	12	12	16	17	16	16	16	15	15	2	2	2
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Dust Emissions by Schedule

PEA Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES																
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	20.0	Fri 8/16/13	Thu 9/12/13	1	0	0	17	17	17	17	17					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			17	17	17	17	17			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					9	9	9	9	9	
Complete Environmental Construction (Refresh and Remaining)	20.0	Thu 5/1/14	Wed 5/28/14	1	1	1										17
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	30.0	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	90.0	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.0	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.0	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.0	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.0	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	20.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.0	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	40.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	60.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	58.0	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	40.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	80.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	30.0	Wed 8/7/19	Tue 9/17/19	1	1	0										
						Total Emiss in PCAPCD juris.	17	17	34	34	43	26	26	9	9	17
						Exceedance of PCAPCD's TOS of 82 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded	0									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	17
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded in LTAB	0									
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	17
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks NSAQMD's TOS is exceeded	0									

Daily PM10 Dust Emissions by Schedule

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	11																					
Complete Physical Construction				3	3	3	3															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												2	2	2	2							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	17	17	17	17																		
Complete Road Construction (Remaining)		17	17	17	17	17																
Complete Logging Operations (Remaining)				9	9	9	9	9														
Complete Foundation Construction		10	10	10	10	10	10	10														
Complete Line Construction						25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Complete Removals																		12	12	12	12	12
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	28	44	44	57	40	65	48	47	27	27	27	27	27	27	27	27	27	39	39	36	36	36
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	17	44	44	53	36	61	44	44	25	25	25	25	25	25	25	25	25	36	36	36	36	36
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	17	27	27	27	10	35	35	35	25	25	25	25	25	25	25	25	25	36	36	36	36	36
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Dust Emissions by Schedule

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			13																			
Complete Physical Construction				4	4	4	4															
Complete Electrical Construction								3	3	3	3											
Complete System Protection Construction												3	3	3	3							
Complete Offsite Improvements and Mitigations																3	3	3	3			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			11																			
Complete Physical Construction				3	3	3	3															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												2	2	2	2							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			13																			
Complete Physical Construction				4	4	4	4															
Complete Electrical Construction								3	3	3	3											
Complete System Protection Construction												3	3	3	3							
Complete Offsite Improvements and Mitigations																3	3	3	3			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												12	12	12	12							
Complete Physical Construction								4	4	4	4											
Complete Electrical Construction					3	3	3															
Complete System Protection Construction			3	3																		
Complete Offsite Improvements and Mitigations																3	3	3	3			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	25	25																				
Complete Removals	12	12																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			18	18	18																	
Complete Logging Operations					13	13																
Complete Road Construction						19	19															
Complete Foundation Construction							12	12	12													
Complete Line Construction										25	25	25	25									
Complete Removals													13									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				26	26	26
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	36	36	44	28	41	43	42	21	21	34	34	42	55	17	17	8	8	8	8	26	26	26
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	36	36	33	25	38	39	38	19	19	32	32	40	53	15	15	6	6	6	6	26	26	26
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	36	36	13	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Dust Emissions by Schedule

																				2019		
		Jun					Jul				Aug					Sep				May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				13	13	13
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				13	13	
Complete Physical Construction																						5
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	26	26	26	26	26	26																
Complete Road Construction		26	26	26	26	26	26	26	26	26	26	26	26	26								
Complete Logging Operations								9	9	9	9	9	9	9	9	9	9	9	9			
Complete Foundation Construction																				10	10	10
Complete Line Construction																						
Complete Removals																						
	26	52	52	52	52	52	26	35	35	35	35	35	35	35	9	9	9	9	9	36	36	27
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	26	52	52	52	52	52	26	35	35	35	35	35	35	35	9	9	9	9	9	23	23	23
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Dust Emissions by Schedule

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	13																				
Complete Physical Construction	5	5	5	5																	
Complete Electrical Construction					3	3	3	3													
Complete System Protection Construction									3	3	3	3									
Complete Offsite Improvements and Mitigations													3	3	3	3					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	5	5	5																		
Complete Electrical Construction				3	3	3	3														
Complete System Protection Construction								3	3	3	3										
Complete Offsite Improvements and Mitigations												3	3	3	3						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		12	12	12	12																
Complete Physical Construction						4	4	4	4												
Complete Electrical Construction										3	3	3	3								
Complete System Protection Construction														3	3	3	3				
Complete Offsite Improvements and Mitigations																		3	3	3	3
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	10	10	10	10	10	10															
Complete Line Construction		25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25			
Complete Removals												12	12	12	12	12	12	12			
	32	56	56	55	54	46	36	35	35	34	34	46	47	46	46	43	40	40	3	3	3
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	28	52	52	52	50	43	32	32	32	31	31	43	44	43	43	43	40	40	3	3	3
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM2.5 Emissions by Schedule (including PM2.5 Exhaust and PM2.5 dust) PEA Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES	0.0															
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	20.0	Fri 8/16/13	Thu 9/12/13	1	0	0	7	7	7	7	7					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			7	7	7	7	7			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					11	11	11	11	11	
Complete Environmental Construction (Refresh and Remaining)	20.0	Thu 5/1/14	Wed 5/28/14	1	1	1										7
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	30.0	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	90.0	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.0	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.0	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.0	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.0	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	20.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.0	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	40.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	60.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	58.0	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	40.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	80.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	30.0	Wed 8/7/19	Tue 9/17/19	1	1	0										
				Total Emiss in PCAPCD juris.			7	7	14	14	25	18	18	11	11	7
					Total Emiss in LTAB		0	0	0	0	0	0	0	0	0	7
				Total Emiss in NSAQMD juris.			0	0	0	0	0	0	0	0	0	7

Daily PM2.5 Emissions by Schedule (including P

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	5																					
Complete Physical Construction				1	1	1	1															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	7	7	7	7																		
Complete Road Construction (Remaining)		7	7	7	7	7																
Complete Logging Operations (Remaining)				11	11	11	11	11														
Complete Foundation Construction		3	3	3	3	3	3	3														
Complete Line Construction						11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Complete Removals																		5	5	5	5	5
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	12	17	17	30	23	34	27	28	14	14	14	12	12	12	12	13	13	19	19	17	17	17
	7	17	17	29	22	33	26	26	11	11	11	11	11	11	11	11	11	17	17	17	17	17
	7	10	10	10	3	15	15	15	11	11	11	11	11	11	11	11	11	17	17	17	17	17

Daily PM2.5 Emissions by Schedule (including P

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			5																			
Complete Physical Construction				3	3	3	3															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			5																			
Complete Physical Construction				3	3	3	3															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			5																			
Complete Physical Construction				3	3	3	3															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												5	5	5	5							
Complete Physical Construction								3	3	3	3											
Complete Electrical Construction					2	2	2															
Complete System Protection Construction			1	1																		
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	11	11																				
Complete Removals	5	5																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			7	7	7																	
Complete Logging Operations					13	13																
Complete Road Construction						7	7															
Complete Foundation Construction							4	4	4													
Complete Line Construction										11	11	11	11									
Complete Removals													6									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				11	11	11
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	17	17	18	14	27	28	19	11	11	19	19	18	24	7	7	6	6	6	6	11	11	11
	17	17	13	11	25	25	16	9	9	16	16	17	23	6	6	4	4	4	4	11	11	11
	17	17	5	3	3	3	3	2	2	2	2	1	1	1	1	2	2	2	2	0	0	0

Daily PM2.5 Emissions by Schedule (including P

		Jun					Jul				Aug					Sep				2019 May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				5	5	5
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				5	5	
Complete Physical Construction																						3
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	11	11	11	11	11	11																
Complete Road Construction		11	11	11	11	11	11	11	11	11	11	11	11	11								
Complete Logging Operations								11	11	11	11	11	11	11	11	11	11	11	11			
Complete Foundation Construction																				3	3	3
Complete Line Construction																						
Complete Removals																						
	11	23	23	23	23	23	11	23	23	23	23	23	23	23	11	11	11	11	11	13	13	11
	11	23	23	23	23	23	11	23	23	23	23	23	23	23	11	11	11	11	11	8	8	8
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daily PM2.5 Emissions by Schedule (including P

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	5																				
Complete Physical Construction	3	3	3	3																	
Complete Electrical Construction					2	2	2	2													
Complete System Protection Construction									1	1	1	1									
Complete Offsite Improvements and Mitigations													2	2	2	2					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	3	3	3																		
Complete Electrical Construction				2	2	2	2														
Complete System Protection Construction								1	1	1	1										
Complete Offsite Improvements and Mitigations												2	2	2	2						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		5	5	5	5																
Complete Physical Construction						3	3	3	3												
Complete Electrical Construction										2	2	2	2								
Complete System Protection Construction														1	1	1	1				
Complete Offsite Improvements and Mitigations																		2	2	2	2
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	3	3	3	3	3	3															
Complete Line Construction		12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12			
Complete Removals												6	6	6	6	6	6	6			
	14	26	26	25	25	23	20	18	17	17	17	23	24	23	23	21	19	20	2	2	2
	11	23	23	23	23	21	17	17	16	16	16	21	22	21	21	21	19	20	2	2	2
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daily PM2.5 Exhaust Emissions by Schedule

PEA Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES	0.0															
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	20.0	Fri 8/16/13	Thu 9/12/13	1	0	0	5	5	5	5	5					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			5	5	5	5	5			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					10	10	10	10	10	
Complete Environmental Construction (Refresh and Remaining)	20.0	Thu 5/1/14	Wed 5/28/14	1	1	1										5
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	30.0	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	90.0	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.0	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.0	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.0	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.0	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	20.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.0	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	40.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	60.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	58.0	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	40.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	80.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	30.0	Wed 8/7/19	Tue 9/17/19	1	1	0										
				Total Emiss in PCAPCD juris.			5	5	10	10	20	15	15	10	10	5
					Total Emiss in LTAB		0	0	0	0	0	0	0	0	0	5
				Total Emiss in NSAQMD juris.			0	0	0	0	0	0	0	0	0	5

Daily PM2.5 Exhaust Emissions by Schedule

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	3																					
Complete Physical Construction				1	1	1	1															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	5	5	5	5																		
Complete Road Construction (Remaining)		5	5	5	5	5																
Complete Logging Operations (Remaining)				10	10	10	10	10														
Complete Foundation Construction		2	2	2	2	2	2	2														
Complete Line Construction						8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Complete Removals																		4	4	4	4	4
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	8	12	12	23	18	27	22	23	10	10	10	9	9	9	9	10	10	14	14	12	12	12
	5	12	12	23	18	26	21	21	8	8	8	8	8	8	8	8	8	12	12	12	12	12
	5	7	7	7	2	11	11	11	8	8	8	8	8	8	8	8	8	12	12	12	12	12

Daily PM2.5 Exhaust Emissions by Schedule

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			3																			
Complete Physical Construction				2	2	2	2															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			3																			
Complete Physical Construction				2	2	2	2															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			3																			
Complete Physical Construction				2	2	2	2															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												3	3	3	3							
Complete Physical Construction								2	2	2	2											
Complete Electrical Construction					2	2	2															
Complete System Protection Construction			1	1																		
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	8	8																				
Complete Removals	4	4																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			5	5	5																	
Complete Logging Operations					11	11																
Complete Road Construction						5	5															
Complete Foundation Construction							2	2	2													
Complete Line Construction										8	8	8	8									
Complete Removals													5									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				8	8	8
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	12	12	12	10	23	23	14	9	9	15	15	13	18	5	5	5	5	5	5	8	8	8
	12	12	9	8	21	21	12	7	7	13	13	12	17	4	4	4	4	4	4	8	8	8
	12	12	3	2	2	2	2	2	2	2	2	1	1	1	1	2	2	2	2	0	0	0

Daily PM2.5 Exhaust Emissions by Schedule

																				2019		
		Jun					Jul				Aug					Sep				May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				3	3	3
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				3	3	
Complete Physical Construction																						2
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	8	8	8	8	8	8																
Complete Road Construction		8	8	8	8	8	8	8	8	8	8	8	8	8								
Complete Logging Operations								10	10	10	10	10	10	10	10	10	10	10	10			
Complete Foundation Construction																				2	2	2
Complete Line Construction																						
Complete Removals																						
	8	16	16	16	16	16	8	18	18	18	18	18	18	18	10	10	10	10	10	9	9	8
	8	16	16	16	16	16	8	18	18	18	18	18	18	18	10	10	10	10	10	6	6	6
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daily PM2.5 Exhaust Emissions by Schedule

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	3																				
Complete Physical Construction	2	2	2	2																	
Complete Electrical Construction					2	2	2	2													
Complete System Protection Construction									1	1	1	1									
Complete Offsite Improvements and Mitigations													2	2	2	2					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	2	2	2																		
Complete Electrical Construction				2	2	2	2														
Complete System Protection Construction								1	1	1	1										
Complete Offsite Improvements and Mitigations												2	2	2	2						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		3	3	3	3																
Complete Physical Construction						2	2	2	2												
Complete Electrical Construction										2	2	2	2								
Complete System Protection Construction														1	1	1	1				
Complete Offsite Improvements and Mitigations																		2	2	2	2
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	2	2	2	2	2	2															
Complete Line Construction		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9			
Complete Removals												5	5	5	5	5	5	5			
	10	19	19	19	19	18	15	14	13	13	13	18	19	18	18	16	14	15	2	2	2
	8	17	17	17	17	16	13	13	12	12	12	16	17	16	16	16	14	15	2	2	2
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daily CO Emissions by Schedule
PEA Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES																
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	20.0	Fri 8/16/13	Thu 9/12/13	1	0	0	60	60	60	60	60					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			60	60	60	60	60			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					118	118	118	118	118	
Complete Environmental Construction (Refresh and Remaining)	20.0	Thu 5/1/14	Wed 5/28/14	1	1	1										60
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	30.0	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	90.0	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.0	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.0	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.0	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.0	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	20.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.0	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	40.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	60.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	58.0	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	40.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	80.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	30.0	Wed 8/7/19	Tue 9/17/19	1	1	0										
				Total Emiss in PCAPCD juris.			60	60	120	120	239	179	179	118	118	60
					Total Emiss in LTAB		0	0	0	0	0	0	0	0	0	60
				Total Emiss in NSAQMD juris.			0	0	0	0	0	0	0	0	0	60

Daily CO Emissions by Schedule

PEA Alternative

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	40																					
Complete Physical Construction				13	13	13	13															
Complete Electrical Construction								37	37	37	37											
Complete System Protection Construction												12	12	12	12							
Complete Offsite Improvements and Mitigations																21	21	21	21			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	60	60	60	60																		
Complete Road Construction (Remaining)		60	60	60	60	60																
Complete Logging Operations (Remaining)				118	118	118	118	118														
Complete Foundation Construction		35	35	35	35	35	35	35														
Complete Line Construction						127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127
Complete Removals																		53	53	53	53	53
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	100	156	156	287	227	354	293	318	164	164	164	138	138	138	138	147	147	200	200	179	179	179
	60	156	156	274	214	340	280	280	127	127	127	127	127	127	127	127	127	179	179	179	179	179
	60	95	95	95	35	162	162	162	127	127	127	127	127	127	127	127	127	179	179	179	179	179

Daily CO Emissions by Schedule
PEA Alternative

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			41																			
Complete Physical Construction				30	30	30	30															
Complete Electrical Construction								38	38	38	38											
Complete System Protection Construction												12	12	12	12							
Complete Offsite Improvements and Mitigations																21	21	21	21			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			40																			
Complete Physical Construction				29	29	29	29															
Complete Electrical Construction								37	37	37	37											
Complete System Protection Construction												12	12	12	12							
Complete Offsite Improvements and Mitigations																21	21	21	21			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			41																			
Complete Physical Construction				30	30	30	30															
Complete Electrical Construction								38	38	38	38											
Complete System Protection Construction												12	12	12	12							
Complete Offsite Improvements and Mitigations																21	21	21	21			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												40	40	40	40							
Complete Physical Construction								30	30	30	30											
Complete Electrical Construction					38	38	38															
Complete System Protection Construction			12	12																		
Complete Offsite Improvements and Mitigations																21	21	21	21			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	127	127																				
Complete Removals	53	53																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			61	61	61																	
Complete Logging Operations					126	126																
Complete Road Construction						62	62															
Complete Foundation Construction							36	36	36													
Complete Line Construction										127	127	127	127									
Complete Removals													57									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				93	93	93
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	179	179	154	132	284	286	196	142	142	232	232	191	248	64	64	63	63	63	63	93	93	93
	179	179	114	103	255	256	166	104	104	194	194	179	236	52	52	42	42	42	42	93	93	93
	179	179	41	30	30	30	30	38	38	38	38	12	12	12	12	21	21	21	21	0	0	0

Daily CO Emissions by Schedule

PEA Alternative

																				2019		
		Jun					Jul				Aug					Sep				May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				41	41	41
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				41	41	
Complete Physical Construction																						30
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	93	93	93	93	93	93																
Complete Road Construction		93	93	93	93	93	93	93	93	93	93	93	93	93								
Complete Logging Operations								119	119	119	119	119	119	119	119	119	119	119	119			
Complete Foundation Construction																				35	35	35
Complete Line Construction																						
Complete Removals																						
	93	186	186	186	186	186	93	212	212	212	212	212	212	212	119	119	119	119	119	117	117	106
	93	186	186	186	186	186	93	212	212	212	212	212	212	212	119	119	119	119	119	76	76	76
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daily CO Emissions by Schedule
PEA Alternative

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	41																				
Complete Physical Construction	30	30	30	30																	
Complete Electrical Construction					38	38	38	38													
Complete System Protection Construction									12	12	12	12									
Complete Offsite Improvements and Mitigations													21	21	21	21					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	30	30	30																		
Complete Electrical Construction				38	38	38	38														
Complete System Protection Construction								12	12	12	12										
Complete Offsite Improvements and Mitigations												21	21	21	21						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		40	40	40	40																
Complete Physical Construction						30	30	30	30												
Complete Electrical Construction										38	38	38	38								
Complete System Protection Construction														12	12	12	12				
Complete Offsite Improvements and Mitigations																		21	21	21	21
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	35	35	35	35	35	35															
Complete Line Construction		132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132			
Complete Removals												57	57	57	57	57	57	57			
	137	268	268	276	284	273	238	212	186	195	195	260	269	243	243	222	201	210	21	21	21
	106	238	238	238	246	235	200	200	174	182	182	239	248	222	222	222	201	210	21	21	21
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Summary of Total Construction Emissions by Phase

Modified Alternative

Task Name	Work Days (No.)	Emissions per Construction Activity (lb/activity) ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Schedule Parameters Year in which Activity would Occur 2013	2014	2016	2018	2019
PHASE 1 SUBSTATIONS - NORTHSTAR															
Complete Civil Construction	5.0	42	327	16	56	16	8	199	0	43,747	0	1	0	0	0
Complete Physical Construction	20.0	121	264	15	70	15	7	263	0	40,261	0	1	0	0	0
Complete Electrical Construction	20.0	113	894	39	48	38	5	750	1	127,430	0	1	0	0	0
Complete System Protection Construction	20.0	37	262	15	48	15	5	237	0	37,503	0	1	0	0	0
Complete Offsite Improvements and Mitigations	20.0	99	750	35	48	34	5	416	1	107,197	0	1	0	0	0
PHASE 2 SUBSTATIONS - KINGS BEACH															
Complete Civil Construction	5.0	44	346	16	65	16	8	206	1	47,602	0	0	1	0	0
Complete Physical Construction	20.0	125	1,007	47	86	47	9	599	1	139,471	0	0	1	0	0
Complete Electrical Construction	20.0	116	923	39	60	39	6	760	1	133,212	0	0	1	0	0
Complete System Protection Construction	20.0	39	282	15	56	15	6	244	0	41,357	0	0	1	0	0
Complete Offsite Improvements and Mitigations	20.0	101	770	35	56	35	6	423	1	111,051	0	0	1	0	0
PHASE 2 SUBSTATION - NORTHSTAR															
Complete Civil Construction	5.0	42	327	16	56	16	8	199	0	43,747	0	0	1	0	0
Complete Physical Construction	20.0	121	968	46	70	46	7	586	1	131,762	0	0	1	0	0
Complete Electrical Construction	20.0	113	894	39	48	38	5	750	1	127,430	0	0	1	0	0
Complete System Protection Construction	20.0	37	262	15	48	15	5	237	0	37,503	0	0	1	0	0
Complete Offsite Improvements and Mitigations	20.0	99	750	35	48	34	5	416	1	107,197	0	0	1	0	0
PHASE 2 SUBSTATIONS - NORTH TRUCKEE											0	0	0	0	0
Complete Civil Construction	5.0	44	341	16	63	16	8	204	1	46,638	0	0	1	0	0
Complete Physical Construction	20.0	124	997	47	82	46	8	596	1	137,544	0	0	1	0	0
Complete Electrical Construction	20.0	115	913	39	56	39	6	757	1	131,285	0	0	1	0	0
Complete System Protection Construction	20.0	38	272	15	52	15	5	240	0	39,430	0	0	1	0	0
Complete Offsite Improvements and Mitigations	20.0	101	770	35	56	35	6	423	1	111,051	0	0	1	0	0
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY															
Complete Civil Construction	20.0	172	1,336	64	238	64	32	806	2	180,770	0	0	1	0	0
Complete Physical Construction	20.0	124	997	47	82	46	8	596	1	137,544	0	0	1	0	0
Complete Electrical Construction	15.0	86	685	29	42	29	4	567	1	98,464	0	0	1	0	0
Complete System Protection Construction	10.0	19	136	8	26	8	3	120	0	19,715	0	0	1	0	0
Complete Offsite Improvements and Mitigations	20.0	101	770	35	56	35	6	423	1	111,051	0	0	1	0	0
PHASE 3 SUBSTATIONS - TAHOE CITY															
Complete Civil Construction	20.0	176	1,375	65	255	65	33	819	2	188,479	0	0	0	0	1
Complete Physical Construction	20.0	126	1,027	47	94	47	10	606	2	143,326	0	0	0	0	1
Complete Electrical Construction	20.0	117	943	40	68	40	7	767	1	137,067	0	0	0	0	1
Complete System Protection Construction	20.0	40	292	16	60	16	6	247	0	43,285	0	0	0	0	1
Complete Offsite Improvements and Mitigations	20.0	103	789	36	64	36	6	429	1	114,906	0	0	0	0	1
PHASE 3 SUBSTATIONS - SQUAW VALLEY															
Complete Civil Construction	10.0	88	688	33	127	32	17	410	1	94,240	0	0	0	0	1
Complete Physical Construction	20.0	125	1,017	47	90	47	9	603	2	141,399	0	0	0	0	1
Complete Electrical Construction	20.0	116	933	40	64	40	6	763	1	135,139	0	0	0	0	1
Complete System Protection Construction	20.0	40	292	16	60	16	6	247	0	43,285	0	0	0	0	1
Complete Offsite Improvements and Mitigations	20.0	102	779	35	60	35	6	426	1	112,978	0	0	0	0	1
PHASE 3 SUBSTATIONS - KINGS BEACH															
Complete Civil Construction	20.0	171	1,326	64	234	63	31	802	2	178,843	0	0	0	0	1
Complete Physical Construction	20.0	123	987	46	78	46	8	593	1	135,617	0	0	0	0	1
Complete Electrical Construction	20.0	115	913	39	56	39	6	757	1	131,285	0	0	0	0	1
Complete System Protection Construction	20.0	38	272	15	52	15	5	240	0	39,430	0	0	0	0	1
Complete Offsite Improvements and Mitigations	20.0	100	760	35	52	35	5	419	1	109,124	0	0	0	0	1

Modified Alternative

Task Name	Work Days (No.)	Emissions per Construction Activity (lb/activity) ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Schedule Parameters: Year in which Activity would Occur 2013	2014	2016	2018	2019
PHASE 1 TRANSMISSION - 650 LINE UPGRADE															
Complete Environmental Construction (USFS Out	20.0	47	2,367	100	335	99	41	1,202	3	314,494	1	0	0	0	0
Complete Road Construction (USFS Out of Basin c	20.0	47	2,367	100	335	99	41	1,202	3	314,494	1	0	0	0	0
Complete Logging Operations (USFS Out of Basin	20.0	597	5,448	209	185	207	19	2,370	8	830,517	1	0	0	0	0
Complete Environmental Construction (Refresh a	16.0	37	1,893	80	268	79	33	962	3	251,596	0	1	0	0	0
Complete Road Construction (Remaining)	16.0	37	1,893	80	268	79	33	962	3	251,596	0	1	0	0	0
Complete Logging Operations (Remaining)	16.0	477	4,358	168	148	166	15	1,896	6	664,413	0	1	0	0	0
Complete Foundation Construction	24.0	182	1,548	57	250	57	25	848	3	238,610	0	1	0	0	0
Complete Line Construction	72.0	1,701	14,025	607	1,776	605	220	9,108	19	1,915,629	0	1	0	0	0
Complete Removals	24.0	280	2,410	98	279	98	28	1,264	4	341,996	0	1	0	0	0
PHASE 2 TRANSMISSION - 650 LINE UPGRADE															
Complete Environmental Construction	10.0	25	1,203	50	176	50	22	608	2	161,102	0	0	1	0	0
Complete Logging Operations	5.0	158	1,498	57	64	56	7	631	2	235,214	0	0	1	0	0
Complete Road Construction	5.0	15	624	26	97	26	12	312	1	84,887	0	0	1	0	0
Complete Foundation Construction	10.0	78	674	25	116	25	12	363	1	105,203	0	0	1	0	0
Complete Line Construction	20.0	473	3,906	169	498	168	61	2,533	5	534,046	0	0	1	0	0
Complete Removals	5.0	73	608	23	65	23	7	285	1	98,250	0	0	1	0	0
PHASE 3 - 625 LINE UPGRADE															
Complete Environmental Construction	40.0	902	7,542	321	1,049	320	136	3,729	10	969,308	0	0	0	1	0
Complete Road Construction	60.0	1,351	11,284	481	1,561	478	202	5,584	15	1,448,181	0	0	0	1	0
Complete Logging Operations	58.0	1,736	15,892	611	549	604	57	6,899	23	2,427,321	0	0	0	1	0
Complete Foundation Construction	42.0	316	2,688	100	428	99	43	1,477	4	413,521	0	0	0	0	1
Complete Line Construction	84.0	2,237	18,272	766	2,107	763	260	11,093	24	2,627,719	0	0	0	0	1
Complete Removals	30.0	436	3,605	139	374	138	38	1,697	5	580,827	0	0	0	0	1
mass conversion rate		2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,205 lb/MT					

Source of conversion rates: onlineconversion.com/weight_common.htm

Summary of Total Construction Emissions by Phase

	ROG	NOx	PM10 Exh	PM10 Dust	Total PM10	PM2.5 Exh	PM2.5 Dust	Total PM2.5	CO	SOx	CO2e
TOTAL EMISSIONS	**7.5**	**66.4**	**2.8**	**7.0**	**9.8**	**2.8**	**0.8**	**3.6**	**37.1**	**0.09**	**8,549**
(units)	tons	tons	tons	tons	tons	tons	tons	tons	tons	tons	MT
Annual Emissions											
2013	**0.3**	**5.1**	**0.2**	**0.4**	**0.6**	**0.2**	**0.1**	**0.3**	**2.4**	**0.01**	**662**
2014	**1.6**	**14.3**	**0.6**	**1.6**	**2.2**	**0.6**	**0.2**	**0.8**	**8.5**	**0.02**	**1,823**
2016	**1.3**	**11.1**	**0.5**	**1.2**	**1.7**	**0.5**	**0.1**	**0.6**	**6.9**	**0.02**	**1,430**
2018	**2.0**	**17.4**	**0.7**	**1.6**	**2.3**	**0.7**	**0.2**	**0.9**	**8.1**	**0.02**	**2,198**
2019	**2.3**	**18.5**	**0.8**	**2.2**	**3.0**	**0.8**	**0.3**	**1.0**	**11.2**	**0.03**	**2,436**
(units)	tons/year	tons/year	tons/year	tons/year	tons/year	tons/year	tons/year	tons/year	tons/year	tons/year	MT/year

Daily ROG Emissions by Schedule
Modified Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES	0.0															
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	20.0	Fri 8/16/13	Thu 9/12/13	1	0	0	2	2	2	2	2					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			2	2	2	2	2			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					30	30	30	30	30	
Complete Environmental Construction (Refresh and Remaining)	16.0	Thu 5/1/14	Wed 5/28/14	1	1	1										2
Complete Road Construction (Remaining)	16.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	16.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	24.0	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	72.0	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	24.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.0	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.0	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.0	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.0	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	20.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.0	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	40.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	60.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	58.0	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	42.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	84.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	30.0	Wed 8/7/19	Tue 9/17/19	1	1	0										
						Total Emiss in PCAPCD juris.	2	2	5	5	35	32	32	30	30	2
						Exceedance of PCAPCD's TOS of 82 lb/day?	—	—	—	—	—	—	—	—	—	—
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	2
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	—
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	2
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—	—	—

Daily ROG Emissions by Schedule
Modified Alternative

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	8																					
Complete Physical Construction				6	6	6	6															
Complete Electrical Construction								6	6	6	6											
Complete System Protection Construction												2	2	2	2							
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	2	2	2	2																		
Complete Road Construction (Remaining)		2	2	2	2	2																
Complete Logging Operations (Remaining)				30	30	30	30	30														
Complete Foundation Construction		8	8	8	8	8	8	8														
Complete Line Construction						24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Complete Removals																		12	12	12	12	12
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	11	12	12	48	46	69	67	67	29	29	29	25	25	25	25	29	29	40	40	35	35	35
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	2	12	12	42	40	63	61	61	24	24	24	24	24	24	24	24	24	35	35	35	35	35
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	2	10	10	10	8	31	31	31	24	24	24	24	24	24	24	24	24	35	35	35	35	35
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily ROG Emissions by Schedule
Modified Alternative

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			9																			
Complete Physical Construction				6	6	6	6															
Complete Electrical Construction								6	6	6	6											
Complete System Protection Construction												2	2	2	2							
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			8																			
Complete Physical Construction				6	6	6	6															
Complete Electrical Construction								6	6	6	6											
Complete System Protection Construction												2	2	2	2							
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			9																			
Complete Physical Construction				6	6	6	6															
Complete Electrical Construction								6	6	6	6											
Complete System Protection Construction												2	2	2	2							
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												9	9	9	9							
Complete Physical Construction								6	6	6	6											
Complete Electrical Construction					6	6	6															
Complete System Protection Construction			2	2																		
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	24	24																				
Complete Removals	12	12																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			3	3	3																	
Complete Logging Operations					32	32																
Complete Road Construction						3	3															
Complete Foundation Construction							8	8	8													
Complete Line Construction										24	24	24	24									
Complete Removals													15									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				23	23	23
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	35	35	22	17	52	53	29	25	25	41	41	36	51	12	12	15	15	15	15	23	23	23
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	35	35	13	11	46	47	23	20	20	36	36	34	49	11	11	10	10	10	10	23	23	23
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	35	35	9	6	6	6	6	6	6	6	6	2	2	2	2	5	5	5	5	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily ROG Emissions by Schedule
Modified Alternative

		Jun					Jul				Aug					Sep				2019 May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				9	9	9
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				9	9	
Complete Physical Construction																						6
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	23	23	23	23	23	23																
Complete Road Construction		23	23	23	23	23	23	23	23	23	23	23	23	23								
Complete Logging Operations								30	30	30	30	30	30	30	30	30	30	30	30			
Complete Foundation Construction																				8	8	8
Complete Line Construction																						
Complete Removals																						
	23	45	45	45	45	45	23	52	52	52	52	52	52	52	30	30	30	30	30	25	25	23
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	23	45	45	45	45	45	23	52	52	52	52	52	52	52	30	30	30	30	30	16	16	16
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily ROG Emissions by Schedule
Modified Alternative

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	9																				
Complete Physical Construction	6	6	6	6																	
Complete Electrical Construction					6	6	6	6													
Complete System Protection Construction									2	2	2	2									
Complete Offsite Improvements and Mitigations													5	5	5	5					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	6	6	6																		
Complete Electrical Construction				6	6	6	6														
Complete System Protection Construction								2	2	2	2										
Complete Offsite Improvements and Mitigations												5	5	5	5						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		9	9	9	9																
Complete Physical Construction						6	6	6	6												
Complete Electrical Construction										6	6	6	6								
Complete System Protection Construction														2	2	2	2				
Complete Offsite Improvements and Mitigations																		5	5	5	5
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	8	8	8	8	8	8															
Complete Line Construction		27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27			
Complete Removals												15	15	15	15	15	15	15			
	29	55	55	55	54	52	44	41	37	36	36	54	57	53	53	48	43	46	5	5	5
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	23	49	49	49	49	46	39	39	35	34	34	49	52	48	48	48	43	46	5	5	5
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily NOx Emissions by Schedule
Modified Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES	0.0															
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	20.0	Fri 8/16/13	Thu 9/12/13	1	0	0	118	118	118	118	118					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			118	118	118	118	118			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					272	272	272	272	272	
Complete Environmental Construction (Refresh and Remaining)	16.0	Thu 5/1/14	Wed 5/28/14	1	1	1										118
Complete Road Construction (Remaining)	16.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	16.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	24.0	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	72.0	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	24.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.0	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.0	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.0	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.0	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	20.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.0	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	40.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	60.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	58.0	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	42.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	84.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	30.0	Wed 8/7/19	Tue 9/17/19	1	1	0										
	WITHOUT MITIGATION					Total Emiss in PCAPCD juris.	118	118	237	237	509	391	391	272	272	118
						Exceedance of PCAPCD's TOS of 82 lb/day?	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
						Number of weeks PCAPCD's TOS is exceeded	94									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	118
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	yes
						Number of weeks PCAPCD's TOS is exceeded in LTAB	79									
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	118
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks NSAQMD's TOS is exceeded	22									
	WITH MITIGATION MEASURE 4.13-1b															
						Reduction in NOx from Off-Road Equip with implementation of MM 4.13-1b	20%									
						Total Emiss in PCAPCD juris.	95	95	189	189	407	313	313	218	218	95
						Exceedance of PCAPCD's TOS of 82 lb/day?	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
						Number of weeks PCAPCD's TOS is exceeded	92									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	95
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	yes
						Number of weeks PCAPCD's TOS is exceeded in LTAB	79									
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	95
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks NSAQMD's TOS is exceeded	22									

Daily NOx Emissions by Schedule
Modified Alternative

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	65																					
Complete Physical Construction				13	13	13	13															
Complete Electrical Construction								45	45	45	45											
Complete System Protection Construction												13	13	13	13							
Complete Offsite Improvements and Mitigations																37	37	37	37			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	118	118	118	118																		
Complete Road Construction (Remaining)		118	118	118	118	118																
Complete Logging Operations (Remaining)				272	272	272	272	272														
Complete Foundation Construction		64	64	64	64	64	64	64														
Complete Line Construction						195	195	195	195	195	195	195	195	195	195	195	195	195	195	195	195	195
Complete Removals																		100	100	100	100	100
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	184	301	301	587	468	663	545	576	239	239	239	208	208	208	208	232	232	333	333	295	295	295
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	118	301	301	574	455	650	532	532	195	195	195	195	195	195	195	195	195	295	295	295	295	295
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	118	183	183	183	64	259	259	259	195	195	195	195	195	195	195	195	195	295	295	295	295	295
	—	yes	yes	yes	—	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	147	241	241	469	375	531	436	461	192	192	192	166	166	166	166	186	186	266	266	236	236	236
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	95	241	241	459	364	520	425	425	156	156	156	156	156	156	156	156	156	236	236	236	236	236
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	95	146	146	146	52	207	207	207	156	156	156	156	156	156	156	156	156	236	236	236	236	236
	—	yes	yes	yes	—	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes

Daily NOx Emissions by Schedule
Modified Alternative

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			69																			
Complete Physical Construction				50	50	50	50															
Complete Electrical Construction								46	46	46	46											
Complete System Protection Construction												14	14	14	14							
Complete Offsite Improvements and Mitigations																38	38	38	38			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			65																			
Complete Physical Construction				48	48	48	48															
Complete Electrical Construction								45	45	45	45											
Complete System Protection Construction												13	13	13	13							
Complete Offsite Improvements and Mitigations																37	37	37	37			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			68																			
Complete Physical Construction				50	50	50	50															
Complete Electrical Construction								46	46	46	46											
Complete System Protection Construction												14	14	14	14							
Complete Offsite Improvements and Mitigations																38	38	38	38			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												67	67	67	67							
Complete Physical Construction								50	50	50	50											
Complete Electrical Construction					46	46	46															
Complete System Protection Construction			14	14																		
Complete Offsite Improvements and Mitigations																38	38	38	38			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	195	195																				
Complete Removals	100	100																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			120	120	120																	
Complete Logging Operations					300	300																
Complete Road Construction						125	125															
Complete Foundation Construction							67	67	67													
Complete Line Construction										195	195	195	195									
Complete Removals													122									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				189	189	189
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	295	295	268	233	564	569	337	208	208	336	336	289	411	94	94	114	114	114	114	189	189	189
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	295	295	203	184	516	520	288	163	163	291	291	276	398	81	81	77	77	77	77	189	189	189
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—	—	—	—	yes	yes	yes
	295	295	68	50	50	50	50	46	46	46	46	14	14	14	14	38	38	38	38	0	0	0
	yes	yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	236	236	215	186	452	455	269	167	167	269	269	231	329	75	75	92	92	92	92	151	151	151
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—	—	yes	yes	yes	yes	yes	yes	yes
	236	236	163	147	413	416	231	131	131	233	233	221	318	65	65	62	62	62	62	151	151	151
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—	—	—	—	yes	yes	yes
	236	236	55	40	40	40	40	37	37	37	37	11	11	11	11	31	31	31	31	0	0	0
	yes	yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily NOx Emissions by Schedule
Modified Alternative

																				2019			
		Jun					Jul				Aug					Sep				May			
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																							
PHASE 1 SUBSTATIONS - NORTHSTAR																							
Complete Civil Construction																							
Complete Physical Construction																							
Complete Electrical Construction																							
Complete System Protection Construction																							
Complete Offsite Improvements and Mitigations																							
PHASE 2 SUBSTATIONS - KINGS BEACH																							
Complete Civil Construction																							
Complete Physical Construction																							
Complete Electrical Construction																							
Complete System Protection Construction																							
Complete Offsite Improvements and Mitigations																							
PHASE 2 SUBSTATION - NORTHSTAR																							
Complete Civil Construction																							
Complete Physical Construction																							
Complete Electrical Construction																							
Complete System Protection Construction																							
Complete Offsite Improvements and Mitigations																							
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																							
Complete Civil Construction																							
Complete Physical Construction																							
Complete Electrical Construction																							
Complete System Protection Construction																							
Complete Offsite Improvements and Mitigations																							
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																							
Complete Civil Construction																							
Complete Physical Construction																							
Complete Electrical Construction																							
Complete System Protection Construction																							
Complete Offsite Improvements and Mitigations																							
PHASE 3 SUBSTATIONS - TAHOE CITY																							
Complete Civil Construction																				69	69	69
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				69	69	
Complete Physical Construction																						51
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																							
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																							
Complete Environmental Construction (USFS Out of Basin only)																							
Complete Road Construction (USFS Out of Basin only)																							
Complete Logging Operations (USFS Out of Basin only)																							
Complete Environmental Construction (Refresh and Remaining)																							
Complete Road Construction (Remaining)																							
Complete Logging Operations (Remaining)																							
Complete Foundation Construction																							
Complete Line Construction																							
Complete Removals																							
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																							
Complete Environmental Construction																							
Complete Logging Operations																							
Complete Road Construction																							
Complete Foundation Construction																							
Complete Line Construction																							
Complete Removals																							
PHASE 3 - 625 LINE UPGRADE																							
Complete Environmental Construction	189	189	189	189	189	189																	
Complete Road Construction		188	188	188	188	188	188	188	188	188	188	188	188	188								
Complete Logging Operations								274	274	274	274	274	274	274	274	274	274	274	274			
Complete Foundation Construction																				64	64	64
Complete Line Construction																						
Complete Removals																						
	189	377	377	377	377	377	188	462	462	462	462	462	462	462	274	274	274	274	274	202	202	184
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	189	377	377	377	377	377	188	462	462	462	462	462	462	462	274	274	274	274	274	133	133	133
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	151	301	301	301	301	301	150	370	370	370	370	370	370	370	219	219	219	219	219	161	161	147
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	151	301	301	301	301	301	150	370	370	370	370	370	370	370	219	219	219	219	219	106	106	106
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily NOx Emissions by Schedule
Modified Alternative

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	69																				
Complete Physical Construction	51	51	51	51																	
Complete Electrical Construction					47	47	47	47													
Complete System Protection Construction									15	15	15	15									
Complete Offsite Improvements and Mitigations													39	39	39	39					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	51	51	51																		
Complete Electrical Construction				47	47	47	47														
Complete System Protection Construction								15	15	15	15										
Complete Offsite Improvements and Mitigations												39	39	39	39						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		66	66	66	66																
Complete Physical Construction						49	49	49	49												
Complete Electrical Construction										46	46	46	46								
Complete System Protection Construction														14	14	14	14				
Complete Offsite Improvements and Mitigations																		38	38	38	38
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	64	64	64	64	64	64															
Complete Line Construction		218	218	218	218	218	218	218	218	218	218	218	218	218	218	218	218	218			
Complete Removals												120	120	120	120	120	120	120			
	235	450	450	446	442	425	361	329	296	292	292	437	462	430	430	391	351	376	38	38	38
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—
	184	399	399	399	395	378	314	314	281	278	278	398	423	391	391	391	351	376	38	38	38
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	188	360	360	357	353	340	289	263	237	234	234	350	369	344	344	313	281	301	30	30	30
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—
	147	319	319	319	316	302	251	251	225	222	222	318	338	313	313	313	281	301	30	30	30
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Emissions by Schedule (including PM10 Exhaust and PM10 dust) — Modified Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES	0.0															
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	20.0	Fri 8/16/13	Thu 9/12/13	1	0	0	22	22	22	22	22					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			22	22	22	22	22			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					20	20	20	20	20	
Complete Environmental Construction (Refresh and Remaining)	16.0	Thu 5/1/14	Wed 5/28/14	1	1	1										22
Complete Road Construction (Remaining)	16.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	16.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	24.0	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	72.0	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	24.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.0	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.0	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.0	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.0	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	20.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.0	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	40.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	60.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	58.0	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	42.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	84.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	30.0	Wed 8/7/19	Tue 9/17/19	1	1	0										
	WITHOUT MITIGATION					Total Emiss in PCAPCD juris.	22	22	44	44	63	41	41	20	20	22
						Exceedance of PCAPCD's TOS of 82 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded	1									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	22
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded in LTAB	1									
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	22
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks NSAQMD's TOS is exceeded	0									
	WITH MITIGATION MEASURE 4.13-1a															
						Minimum proportion of PM10 Exhaust that is from Off-Road Equipment	76%	This value is shown on wksht Mod Emiss by Act & Src. It is conse								
						Reduction in PM10 Exh from Off-Road Equip with implementation of MM 4.13-1a	45%									
						Net Reduction in PM10 Exh	34%	This value is necessary because the 45% reduction in PM10 Exh								
						Total Emiss in PCAPCD juris.	20	20	40	40	56	36	36	16	16	20
						Exceedance of PCAPCD's TOS of 82 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded	1	Thus, implementation of MM 4.13-1a would reduce Maximum D								
						Peak Emiss in PCAPCD Juris	82.4									
						2nd Peak Emiss in PCAPCD Juris	72.2									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	20
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded in LTAB	0	Thus, implementation of MM 4.13-1a would reduce Maximum D								

Daily PM10 Emissions by Schedule (including PM

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	14																					
Complete Physical Construction				4	4	4	4															
Complete Electrical Construction								4	4	4	4											
Complete System Protection Construction												3	3	3	3							
Complete Offsite Improvements and Mitigations																4	4	4	4			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	22	22	22	22																		
Complete Road Construction (Remaining)		22	22	22	22	22																
Complete Logging Operations (Remaining)				20	20	20	20	20														
Complete Foundation Construction		13	13	13	13	13	13	13														
Complete Line Construction						33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
Complete Removals																		16	16	16	16	16
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	36	56	56	80	58	92	70	70	37	37	37	36	36	36	36	37	37	53	53	49	49	49
	—	—	—	—	—	yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	22	56	56	76	54	87	66	66	33	33	33	33	33	33	33	33	33	49	49	49	49	49
	—	—	—	—	—	yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	22	35	35	35	13	46	46	46	33	33	33	33	33	33	33	33	33	49	49	49	49	49
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

rvative to use this value because it is the lowest proportion of PM10 Exhaust that comes from Off-Road Equipment for any individual construction activity (e

required by MM 4.13-1a would only apply to the portion of PM10 Exh from off-road construction equipment.

	33	52	52	72	52	82	62	62	34	34	34	33	33	33	33	34	34	48	48	45	45	45
	—	—	—	—	—	yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily Levels of PM10 (total) to less than PCAPCD's threshold of 82 lb/day.

	20	52	52	68	48	78	58	58	30	30	30	30	30	30	30	30	30	45	45	45	45	45
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily Levels of PM10 (total) in the LTAB to less than PCAPCD's threshold of 82 lb/day.

Daily PM10 Emissions by Schedule (including PM

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			16																			
Complete Physical Construction				7	7	7	7															
Complete Electrical Construction								5	5	5	5											
Complete System Protection Construction												4	4	4	4							
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			14																			
Complete Physical Construction				6	6	6	6															
Complete Electrical Construction								4	4	4	4											
Complete System Protection Construction												3	3	3	3							
Complete Offsite Improvements and Mitigations																4	4	4	4			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			16																			
Complete Physical Construction				6	6	6	6															
Complete Electrical Construction								5	5	5	5											
Complete System Protection Construction												3	3	3	3							
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												15	15	15	15							
Complete Physical Construction								6	6	6	6											
Complete Electrical Construction					5	5	5															
Complete System Protection Construction			3	3																		
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	33	33																				
Complete Removals	16	16																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			23	23	23																	
Complete Logging Operations					24	24																
Complete Road Construction						25	25															
Complete Foundation Construction							14	14	14													
Complete Line Construction										33	33	33	33									
Complete Removals													18									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				34	34	34
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	49	49	57	38	64	66	56	30	30	49	49	55	73	22	22	13	13	13	13	34	34	34
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	49	49	42	33	58	60	50	26	26	45	45	52	70	19	19	9	9	9	9	34	34	34
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	49	49	16	6	6	6	6	5	5	5	5	3	3	3	3	5	5	5	5	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

e.g., road construction, line construction, line removal). Moreover, it is based on the proportion of PM10 exhaust from off-road equipment during "Complete

45	45	52	35	56	58	51	27	27	44	44	51	67	20	20	11	11	11	11	31	31	31
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
45	45	39	30	51	53	46	23	23	40	40	48	64	17	17	8	8	8	8	31	31	31
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Emissions by Schedule (including PM

																				2019		
		Jun					Jul				Aug					Sep				May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				16	16	16
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				16	16	
Complete Physical Construction																						7
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	34	34	34	34	34	34																
Complete Road Construction		34	34	34	34	34	34	34	34	34	34	34	34	34								
Complete Logging Operations								20	20	20	20	20	20	20	20	20	20	20	20			
Complete Foundation Construction																				13	13	13
Complete Line Construction																						
Complete Removals																						
	34	68	68	68	68	68	34	54	54	54	54	54	54	54	20	20	20	20	20	45	45	35
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	34	68	68	68	68	68	34	54	54	54	54	54	54	54	20	20	20	20	20	29	29	29
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Removals" activity (i.e., line removal), as shown on wksht Mod Emiss by Act & Src; however this activity, is not one of the weeks when PM10 emissions cou																					
	31	63	63	63	63	63	31	48	48	48	48	48	48	48	16	16	16	16	16	42	42	33
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	31	63	63	63	63	63	31	48	48	48	48	48	48	48	16	16	16	16	16	27	27	27
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Emissions by Schedule (including PM

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	16																				
Complete Physical Construction	7	7	7	7																	
Complete Electrical Construction					5	5	5	5													
Complete System Protection Construction									4	4	4	4									
Complete Offsite Improvements and Mitigations													5	5	5	5					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	7	7	7																		
Complete Electrical Construction				5	5	5	5														
Complete System Protection Construction								4	4	4	4										
Complete Offsite Improvements and Mitigations												5	5	5	5						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		15	15	15	15																
Complete Physical Construction						6	6	6	6												
Complete Electrical Construction										5	5	5	5								
Complete System Protection Construction														3	3	3	3				
Complete Offsite Improvements and Mitigations																		4	4	4	4
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	13	13	13	13	13	13															
Complete Line Construction		34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34			
Complete Removals												17	17	17	17	17	17	17			
	43	76	76	74	72	64	51	50	48	47	47	65	66	64	64	60	55	56	4	4	4
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	36	69	69	69	67	58	46	46	44	43	43	60	61	60	60	60	55	56	4	4	4
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

ld peak to their highest, worst-case levels.

39	69	69	67	66	58	46	45	44	42	42	58	59	58	58	54	50	50	4	4	4
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
33	63	63	63	61	53	41	41	40	39	39	54	55	54	54	54	50	50	4	4	4
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Exhaust Emissions by Schedule

Mod Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES																
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	20.0	Fri 8/16/13	Thu 9/12/13	1	0	0	5	5	5	5	5					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			5	5	5	5	5			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					10	10	10	10	10	
Complete Environmental Construction (Refresh and Remaining)	20.0	Thu 5/1/14	Wed 5/28/14	1	1	1										5
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	30.0	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	90.0	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.0	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.0	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.0	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.0	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	20.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.0	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	40.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	60.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	58.0	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	40.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	80.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	30.0	Wed 8/7/19	Tue 9/17/19	1	1	0										
						Total Emiss in PCAPCD juris.	5	5	10	10	20	15	15	10	10	5
						Exceedance of PCAPCD's TOS of 82 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded	0									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	5
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded in LTAB	0									
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	5
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks NSAQMD's TOS is exceeded	0									

Daily PM10 Exhaust Emissions by Schedule

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	3																					
Complete Physical Construction				1	1	1	1															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	5	5	5	5																		
Complete Road Construction (Remaining)		5	5	5	5	5																
Complete Logging Operations (Remaining)				10	10	10	10	10														
Complete Foundation Construction		2	2	2	2	2	2	2														
Complete Line Construction						8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Complete Removals																		4	4	4	4	4
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	8	12	12	24	19	27	22	23	10	10	10	9	9	9	9	10	10	14	14	13	13	13
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	5	12	12	23	18	26	21	21	8	8	8	8	8	8	8	8	8	13	13	13	13	13
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	5	7	7	7	2	11	11	11	8	8	8	8	8	8	8	8	8	13	13	13	13	13
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Exhaust Emissions by Schedule

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			3																			
Complete Physical Construction				2	2	2	2															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			3																			
Complete Physical Construction				2	2	2	2															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			3																			
Complete Physical Construction				2	2	2	2															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												3	3	3	3							
Complete Physical Construction								2	2	2	2											
Complete Electrical Construction					2	2	2															
Complete System Protection Construction			1	1																		
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	8	8																				
Complete Removals	4	4																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			5	5	5																	
Complete Logging Operations					11	11																
Complete Road Construction						5	5															
Complete Foundation Construction							2	2	2													
Complete Line Construction										8	8	8	8									
Complete Removals													5									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				8	8	8
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	13	13	12	10	23	23	14	9	9	15	15	13	18	5	5	5	5	5	5	8	8	8
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	13	13	9	8	21	21	12	7	7	13	13	12	17	4	4	4	4	4	4	8	8	8
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	13	13	3	2	2	2	2	2	2	2	2	1	1	1	1	2	2	2	2	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Exhaust Emissions by Schedule

																				2019		
		Jun					Jul				Aug					Sep				May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				3	3	3
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				3	3	
Complete Physical Construction																						2
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	8	8	8	8	8	8																
Complete Road Construction		8	8	8	8	8	8	8	8	8	8	8	8	8								
Complete Logging Operations								11	11	11	11	11	11	11	11	11	11	11	11			
Complete Foundation Construction																				2	2	2
Complete Line Construction																						
Complete Removals																						
	8	16	16	16	16	16	8	19	19	19	19	19	19	19	11	11	11	11	11	9	9	8
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	8	16	16	16	16	16	8	19	19	19	19	19	19	19	11	11	11	11	11	6	6	6
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Exhaust Emissions by Schedule

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	3																				
Complete Physical Construction	2	2	2	2																	
Complete Electrical Construction					2	2	2	2													
Complete System Protection Construction									1	1	1	1									
Complete Offsite Improvements and Mitigations													2	2	2	2					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	2	2	2																		
Complete Electrical Construction				2	2	2	2														
Complete System Protection Construction								1	1	1	1										
Complete Offsite Improvements and Mitigations												2	2	2	2						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		3	3	3	3																
Complete Physical Construction						2	2	2	2												
Complete Electrical Construction										2	2	2	2								
Complete System Protection Construction														1	1	1	1				
Complete Offsite Improvements and Mitigations																		2	2	2	2
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	2	2	2	2	2	2															
Complete Line Construction		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9			
Complete Removals												5	5	5	5	5	5	5			
	10	19	19	19	19	18	15	14	13	13	13	18	19	18	18	16	15	15	2	2	2
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	8	17	17	17	17	16	13	13	12	12	12	16	17	16	16	16	15	15	2	2	2
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Dust Emissions by Schedule

Mod Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES																
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	20.0	Fri 8/16/13	Thu 9/12/13	1	0	0	17	17	17	17	17					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			17	17	17	17	17			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					9	9	9	9	9	
Complete Environmental Construction (Refresh and Remaining)	20.0	Thu 5/1/14	Wed 5/28/14	1	1	1										17
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	30.0	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	90.0	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.0	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.0	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.0	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.0	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	20.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.0	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	40.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	60.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	58.0	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	40.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	80.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	30.0	Wed 8/7/19	Tue 9/17/19	1	1	0										
						Total Emiss in PCAPCD juris.	17	17	34	34	43	26	26	9	9	17
						Exceedance of PCAPCD's TOS of 82 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded	0									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	17
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded in LTAB	0									
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	17
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks NSAQMD's TOS is exceeded	0									

Daily PM10 Dust Emissions by Schedule

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	11																					
Complete Physical Construction				3	3	3	3															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												2	2	2	2							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	17	17	17	17																		
Complete Road Construction (Remaining)		17	17	17	17	17																
Complete Logging Operations (Remaining)				9	9	9	9	9														
Complete Foundation Construction		10	10	10	10	10	10	10														
Complete Line Construction						25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Complete Removals																		12	12	12	12	12
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	28	44	44	57	40	65	48	47	27	27	27	27	27	27	27	27	27	39	39	36	36	36
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	17	44	44	53	36	61	44	44	25	25	25	25	25	25	25	25	25	36	36	36	36	36
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	17	27	27	27	10	35	35	35	25	25	25	25	25	25	25	25	25	36	36	36	36	36
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Dust Emissions by Schedule

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			13																			
Complete Physical Construction				4	4	4	4															
Complete Electrical Construction								3	3	3	3											
Complete System Protection Construction												3	3	3	3							
Complete Offsite Improvements and Mitigations																3	3	3	3			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			11																			
Complete Physical Construction				3	3	3	3															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												2	2	2	2							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			13																			
Complete Physical Construction				4	4	4	4															
Complete Electrical Construction								3	3	3	3											
Complete System Protection Construction												3	3	3	3							
Complete Offsite Improvements and Mitigations																3	3	3	3			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												12	12	12	12							
Complete Physical Construction								4	4	4	4											
Complete Electrical Construction					3	3	3															
Complete System Protection Construction			3	3																		
Complete Offsite Improvements and Mitigations																3	3	3	3			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	25	25																				
Complete Removals	12	12																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			18	18	18																	
Complete Logging Operations					13	13																
Complete Road Construction						19	19															
Complete Foundation Construction							12	12	12													
Complete Line Construction										25	25	25	25									
Complete Removals													13									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				26	26	26
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	36	36	44	28	41	43	42	21	21	34	34	42	55	17	17	8	8	8	8	26	26	26
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	36	36	33	25	38	39	38	19	19	32	32	40	53	15	15	6	6	6	6	26	26	26
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	36	36	13	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Dust Emissions by Schedule

																				2019		
		Jun					Jul				Aug					Sep				May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				13	13	13
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				13	13	
Complete Physical Construction																						5
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	26	26	26	26	26	26																
Complete Road Construction		26	26	26	26	26	26	26	26	26	26	26	26	26								
Complete Logging Operations								9	9	9	9	9	9	9	9	9	9	9	9			
Complete Foundation Construction																				10	10	10
Complete Line Construction																						
Complete Removals																						
	26	52	52	52	52	52	26	35	35	35	35	35	35	35	9	9	9	9	9	36	36	27
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	26	52	52	52	52	52	26	35	35	35	35	35	35	35	9	9	9	9	9	23	23	23
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Dust Emissions by Schedule

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	13																				
Complete Physical Construction	5	5	5	5																	
Complete Electrical Construction					3	3	3	3													
Complete System Protection Construction									3	3	3	3									
Complete Offsite Improvements and Mitigations													3	3	3	3					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	5	5	5																		
Complete Electrical Construction				3	3	3	3														
Complete System Protection Construction								3	3	3	3										
Complete Offsite Improvements and Mitigations												3	3	3	3						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		12	12	12	12																
Complete Physical Construction						4	4	4	4												
Complete Electrical Construction										3	3	3	3								
Complete System Protection Construction														3	3	3	3				
Complete Offsite Improvements and Mitigations																		3	3	3	3
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	10	10	10	10	10	10															
Complete Line Construction		25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25			
Complete Removals												12	12	12	12	12	12	12			
	32	56	56	55	54	46	36	35	35	34	34	46	47	46	46	43	40	40	3	3	3
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	28	52	52	52	50	43	32	32	32	31	31	43	44	43	43	43	40	40	3	3	3
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM2.5 Emissions by Schedule (including PM2.5 Exhaust and PM2.5 dust) — Modified Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES	0.0															
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	20.0	Fri 8/16/13	Thu 9/12/13	1	0	0	7	7	7	7	7					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			7	7	7	7	7			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					11	11	11	11	11	
Complete Environmental Construction (Refresh and Remaining)	16.0	Thu 5/1/14	Wed 5/28/14	1	1	1										7
Complete Road Construction (Remaining)	16.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	16.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	24.0	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	72.0	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	24.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.0	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.0	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.0	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.0	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	20.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.0	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	40.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	60.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	58.0	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	42.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	84.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	30.0	Wed 8/7/19	Tue 9/17/19	1	1	0										
				Total Emiss in PCAPCD juris.			7	7	14	14	25	18	18	11	11	7
					Total Emiss in LTAB		0	0	0	0	0	0	0	0	0	7
				Total Emiss in NSAQMD juris.			0	0	0	0	0	0	0	0	0	7

Daily PM2.5 Emissions by Schedule (including P

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	5																					
Complete Physical Construction				1	1	1	1															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	7	7	7	7																		
Complete Road Construction (Remaining)		7	7	7	7	7																
Complete Logging Operations (Remaining)				11	11	11	11	11														
Complete Foundation Construction		3	3	3	3	3	3	3														
Complete Line Construction						11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Complete Removals																		5	5	5	5	5
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	12	17	17	30	23	34	27	28	14	14	14	12	12	12	12	13	13	19	19	17	17	17
	7	17	17	29	22	33	26	26	11	11	11	11	11	11	11	11	11	17	17	17	17	17
	7	10	10	10	3	15	15	15	11	11	11	11	11	11	11	11	11	17	17	17	17	17

Daily PM2.5 Emissions by Schedule (including P

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			5																			
Complete Physical Construction				3	3	3	3															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			5																			
Complete Physical Construction				3	3	3	3															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			5																			
Complete Physical Construction				3	3	3	3															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												5	5	5	5							
Complete Physical Construction								3	3	3	3											
Complete Electrical Construction					2	2	2															
Complete System Protection Construction			1	1																		
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	11	11																				
Complete Removals	5	5																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			7	7	7																	
Complete Logging Operations					13	13																
Complete Road Construction						7	7															
Complete Foundation Construction							4	4	4													
Complete Line Construction										11	11	11	11									
Complete Removals													6									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				11	11	11
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	17	17	18	14	27	28	19	11	11	19	19	18	24	7	7	6	6	6	6	11	11	11
	17	17	13	11	25	25	16	9	9	16	16	17	23	6	6	4	4	4	4	11	11	11
	17	17	5	3	3	3	3	2	2	2	2	1	1	1	1	2	2	2	2	0	0	0

Daily PM2.5 Emissions by Schedule (including P

		Jun					Jul				Aug					Sep				2019 May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				5	5	5
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				5	5	
Complete Physical Construction																						3
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	11	11	11	11	11	11																
Complete Road Construction		11	11	11	11	11	11	11	11	11	11	11	11	11								
Complete Logging Operations								11	11	11	11	11	11	11	11	11	11	11	11			
Complete Foundation Construction																				3	3	3
Complete Line Construction																						
Complete Removals																						
	11	23	23	23	23	23	11	23	23	23	23	23	23	23	11	11	11	11	11	13	13	11
	11	23	23	23	23	23	11	23	23	23	23	23	23	23	11	11	11	11	11	8	8	8
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daily PM2.5 Emissions by Schedule (including P

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	5																				
Complete Physical Construction	3	3	3	3																	
Complete Electrical Construction					2	2	2	2													
Complete System Protection Construction									1	1	1	1									
Complete Offsite Improvements and Mitigations													2	2	2	2					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	3	3	3																		
Complete Electrical Construction				2	2	2	2														
Complete System Protection Construction								1	1	1	1										
Complete Offsite Improvements and Mitigations												2	2	2	2						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		5	5	5	5																
Complete Physical Construction						3	3	3	3												
Complete Electrical Construction										2	2	2	2								
Complete System Protection Construction														1	1	1	1				
Complete Offsite Improvements and Mitigations																		2	2	2	2
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	3	3	3	3	3	3															
Complete Line Construction		12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12			
Complete Removals												6	6	6	6	6	6	6			
	14	26	26	25	25	23	20	18	17	17	17	23	24	23	23	21	19	20	2	2	2
	11	23	23	23	23	21	17	17	16	16	16	21	22	21	21	21	19	20	2	2	2
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daily CO Emissions by Schedule
Modified Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES																
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	20.0	Fri 8/16/13	Thu 9/12/13	1	0	0	60	60	60	60	60					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			60	60	60	60	60			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					118	118	118	118	118	
Complete Environmental Construction (Refresh and Remaining)	20.0	Thu 5/1/14	Wed 5/28/14	1	1	1										60
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	30.0	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	90.0	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.0	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.0	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.0	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.0	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	20.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.0	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	40.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	60.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	58.0	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	40.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	80.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	30.0	Wed 8/7/19	Tue 9/17/19	1	1	0										
				Total Emiss in PCAPCD juris.			60	60	120	120	239	179	179	118	118	60
					Total Emiss in LTAB		0	0	0	0	0	0	0	0	0	60
				Total Emiss in NSAQMD juris.			0	0	0	0	0	0	0	0	0	60

Daily CO Emissions by Schedule
Modified Alternative

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	40																					
Complete Physical Construction				13	13	13	13															
Complete Electrical Construction								37	37	37	37											
Complete System Protection Construction												12	12	12	12							
Complete Offsite Improvements and Mitigations																21	21	21	21			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	60	60	60	60																		
Complete Road Construction (Remaining)		60	60	60	60	60																
Complete Logging Operations (Remaining)				118	118	118	118	118														
Complete Foundation Construction		35	35	35	35	35	35	35														
Complete Line Construction						127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127
Complete Removals																		53	53	53	53	53
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	100	156	156	287	227	354	293	318	164	164	164	138	138	138	138	147	147	200	200	179	179	179
	60	156	156	274	214	340	280	280	127	127	127	127	127	127	127	127	127	179	179	179	179	179
	60	95	95	95	35	162	162	162	127	127	127	127	127	127	127	127	127	179	179	179	179	179

Daily CO Emissions by Schedule
Modified Alternative

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			41																			
Complete Physical Construction				30	30	30	30															
Complete Electrical Construction								38	38	38	38											
Complete System Protection Construction												12	12	12	12							
Complete Offsite Improvements and Mitigations																21	21	21	21			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			40																			
Complete Physical Construction				29	29	29	29															
Complete Electrical Construction								37	37	37	37											
Complete System Protection Construction												12	12	12	12							
Complete Offsite Improvements and Mitigations																21	21	21	21			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			41																			
Complete Physical Construction				30	30	30	30															
Complete Electrical Construction								38	38	38	38											
Complete System Protection Construction												12	12	12	12							
Complete Offsite Improvements and Mitigations																21	21	21	21			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												40	40	40	40							
Complete Physical Construction								30	30	30	30											
Complete Electrical Construction					38	38	38															
Complete System Protection Construction			12	12																		
Complete Offsite Improvements and Mitigations																21	21	21	21			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	127	127																				
Complete Removals	53	53																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			61	61	61																	
Complete Logging Operations					126	126																
Complete Road Construction						62	62															
Complete Foundation Construction							36	36	36													
Complete Line Construction										127	127	127	127									
Complete Removals													57									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				93	93	93
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	179	179	154	132	284	286	196	142	142	232	232	191	248	64	64	63	63	63	63	93	93	93
	179	179	114	103	255	256	166	104	104	194	194	179	236	52	52	42	42	42	42	93	93	93
	179	179	41	30	30	30	30	38	38	38	38	12	12	12	12	21	21	21	21	0	0	0

Daily CO Emissions by Schedule
Modified Alternative

																				2019		
		Jun					Jul				Aug					Sep				May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				41	41	41
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				41	41	
Complete Physical Construction																						30
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	93	93	93	93	93	93																
Complete Road Construction		93	93	93	93	93	93	93	93	93	93	93	93	93								
Complete Logging Operations								119	119	119	119	119	119	119	119	119	119	119	119			
Complete Foundation Construction																				35	35	35
Complete Line Construction																						
Complete Removals																						
	93	186	186	186	186	186	93	212	212	212	212	212	212	212	119	119	119	119	119	117	117	106
	93	186	186	186	186	186	93	212	212	212	212	212	212	212	119	119	119	119	119	76	76	76
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daily CO Emissions by Schedule
Modified Alternative

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	41																				
Complete Physical Construction	30	30	30	30																	
Complete Electrical Construction					38	38	38	38													
Complete System Protection Construction									12	12	12	12									
Complete Offsite Improvements and Mitigations													21	21	21	21					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	30	30	30																		
Complete Electrical Construction				38	38	38	38														
Complete System Protection Construction								12	12	12	12										
Complete Offsite Improvements and Mitigations												21	21	21	21						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		40	40	40	40																
Complete Physical Construction						30	30	30	30												
Complete Electrical Construction										38	38	38	38								
Complete System Protection Construction														12	12	12	12				
Complete Offsite Improvements and Mitigations																		21	21	21	21
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	35	35	35	35	35	35															
Complete Line Construction		132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132			
Complete Removals												57	57	57	57	57	57	57			
	137	268	268	276	284	273	238	212	186	195	195	260	269	243	243	222	201	210	21	21	21
	106	238	238	238	246	235	200	200	174	182	182	239	248	222	222	222	201	210	21	21	21
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Summary of Total Construction Emissions by Phase

Road Focused Alternative

Task Name	Work Days (No.)	Emissions per Construction Activity (lb/activity) ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Schedule Parameters: Year in which Activity would Occur 2013	2014	2016	2018	2019
PHASE 1 SUBSTATIONS - NORTHSTAR															
Complete Civil Construction	5.0	42	327	16	56	16	8	199	0	43,747	0	1	0	0	0
Complete Physical Construction	20.0	121	264	15	70	15	7	263	0	40,261	0	1	0	0	0
Complete Electrical Construction	20.0	113	894	39	48	38	5	750	1	127,430	0	1	0	0	0
Complete System Protection Construction	20.0	37	262	15	48	15	5	237	0	37,503	0	1	0	0	0
Complete Offsite Improvements and Mitigations	20.0	99	750	35	48	34	5	416	1	107,197	0	1	0	0	0
PHASE 2 SUBSTATIONS - KINGS BEACH															
Complete Civil Construction	5.0	44	346	16	65	16	8	206	1	47,602	0	0	1	0	0
Complete Physical Construction	20.0	125	1,007	47	86	47	9	599	1	139,471	0	0	1	0	0
Complete Electrical Construction	20.0	116	923	39	60	39	6	760	1	133,212	0	0	1	0	0
Complete System Protection Construction	20.0	39	282	15	56	15	6	244	0	41,357	0	0	1	0	0
Complete Offsite Improvements and Mitigations	20.0	101	770	35	56	35	6	423	1	111,051	0	0	1	0	0
PHASE 2 SUBSTATION - NORTHSTAR															
Complete Civil Construction	5.0	42	327	16	56	16	8	199	0	43,747	0	0	1	0	0
Complete Physical Construction	20.0	121	968	46	70	46	7	586	1	131,762	0	0	1	0	0
Complete Electrical Construction	20.0	113	894	39	48	38	5	750	1	127,430	0	0	1	0	0
Complete System Protection Construction	20.0	37	262	15	48	15	5	237	0	37,503	0	0	1	0	0
Complete Offsite Improvements and Mitigations	20.0	99	750	35	48	34	5	416	1	107,197	0	0	1	0	0
PHASE 2 SUBSTATIONS - NORTH TRUCKEE											0	0	0	0	0
Complete Civil Construction	5.0	44	341	16	63	16	8	204	1	46,638	0	0	1	0	0
Complete Physical Construction	20.0	124	997	47	82	46	8	596	1	137,544	0	0	1	0	0
Complete Electrical Construction	20.0	115	913	39	56	39	6	757	1	131,285	0	0	1	0	0
Complete System Protection Construction	20.0	38	272	15	52	15	5	240	0	39,430	0	0	1	0	0
Complete Offsite Improvements and Mitigations	20.0	101	770	35	56	35	6	423	1	111,051	0	0	1	0	0
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY															
Complete Civil Construction	20.0	172	1,336	64	238	64	32	806	2	180,770	0	0	1	0	0
Complete Physical Construction	20.0	124	997	47	82	46	8	596	1	137,544	0	0	1	0	0
Complete Electrical Construction	15.0	86	685	29	42	29	4	567	1	98,464	0	0	1	0	0
Complete System Protection Construction	10.0	19	136	8	26	8	3	120	0	19,715	0	0	1	0	0
Complete Offsite Improvements and Mitigations	20.0	101	770	35	56	35	6	423	1	111,051	0	0	1	0	0
PHASE 3 SUBSTATIONS - TAHOE CITY															
Complete Civil Construction	20.0	176	1,375	65	255	65	33	819	2	188,479	0	0	0	0	1
Complete Physical Construction	20.0	126	1,027	47	94	47	10	606	2	143,326	0	0	0	0	1
Complete Electrical Construction	20.0	117	943	40	68	40	7	767	1	137,067	0	0	0	0	1
Complete System Protection Construction	20.0	40	292	16	60	16	6	247	0	43,285	0	0	0	0	1
Complete Offsite Improvements and Mitigations	20.0	103	789	36	64	36	6	429	1	114,906	0	0	0	0	1
PHASE 3 SUBSTATIONS - SQUAW VALLEY															
Complete Civil Construction	10.0	88	688	33	127	32	17	410	1	94,240	0	0	0	0	1
Complete Physical Construction	20.0	125	1,017	47	90	47	9	603	2	141,399	0	0	0	0	1
Complete Electrical Construction	20.0	116	933	40	64	40	6	763	1	135,139	0	0	0	0	1
Complete System Protection Construction	20.0	40	292	16	60	16	6	247	0	43,285	0	0	0	0	1
Complete Offsite Improvements and Mitigations	20.0	102	779	35	60	35	6	426	1	112,978	0	0	0	0	1
PHASE 3 SUBSTATIONS - KINGS BEACH															
Complete Civil Construction	20.0	171	1,326	64	234	63	31	802	2	178,843	0	0	0	0	1
Complete Physical Construction	20.0	123	987	46	78	46	8	593	1	135,617	0	0	0	0	1
Complete Electrical Construction	20.0	115	913	39	56	39	6	757	1	131,285	0	0	0	0	1
Complete System Protection Construction	20.0	38	272	15	52	15	5	240	0	39,430	0	0	0	0	1
Complete Offsite Improvements and Mitigations	20.0	100	760	35	52	35	5	419	1	109,124	0	0	0	0	1
PHASE 1 TRANSMISSION - 650 LINE UPGRADE															
Complete Environmental Construction (USFS Out	21.0	45	2,485	105	352	104	43	1,263	3	330,219	1	0	0	0	0
Complete Road Construction (USFS Out of Basin c	20.0	43	2,367	100	335	99	41	1,202	3	314,494	1	0	0	0	0
Complete Logging Operations (USFS Out of Basin	20.0	579	5,330	206	185	204	19	2,348	8	799,013	1	0	0	0	0
Complete Environmental Construction (Refresh a	21.0	45	2,485	105	352	104	43	1,263	3	330,219	0	1	0	0	0
Complete Road Construction (Remaining)	20.0	43	2,367	100	335	99	41	1,202	3	314,494	0	1	0	0	0
Complete Logging Operations (Remaining)	20.0	579	5,330	206	185	204	19	2,348	8	799,013	0	1	0	0	0
Complete Foundation Construction	31.5	238	2,031	75	328	75	33	1,113	3	313,176	0	1	0	0	0
Complete Line Construction	94.5	2,190	18,127	789	2,332	787	288	11,904	25	2,439,835	0	1	0	0	0
Complete Removals	30.0	349	3,013	123	349	122	35	1,580	5	427,495	0	1	0	0	0
PHASE 2 TRANSMISSION - 650 LINE UPGRADE															
Complete Environmental Construction	10.5	25	1,263	53	185	53	23	638	2	169,157	0	0	1	0	0
Complete Logging Operations	5.3	162	1,542	59	68	58	7	657	2	238,705	0	0	1	0	0
Complete Road Construction	5.3	14	655	27	102	27	12	327	1	89,132	0	0	1	0	0
Complete Foundation Construction	10.5	82	708	26	122	26	12	382	1	110,463	0	0	1	0	0
Complete Line Construction	21.0	487	4,039	176	522	175	65	2,649	6	544,209	0	0	1	0	0
Complete Removals	5.3	72	607	24	69	24	7	294	1	94,893	0	0	1	0	0
PHASE 3 - 625 LINE UPGRADE															
Complete Environmental Construction	32.0	722	6,034	257	839	256	109	2,983	8	775,447	0	0	0	1	0
Complete Road Construction	48.0	1,080	9,027	384	1,249	383	162	4,467	12	1,158,545	0	0	0	1	0
Complete Logging Operations	46.4	1,347	12,439	481	439	476	46	5,470	18	1,868,768	0	0	0	1	0
Complete Foundation Construction	32.0	241	2,048	76	326	76	33	1,125	3	315,064	0	0	0	0	1
Complete Line Construction	64.0	1,647	13,542	573	1,605	571	198	8,383	18	1,901,259	0	0	0	0	1
Complete Removals	28.5	388	3,256	128	355	127	36	1,581	5	506,892	0	0	0	0	1
mass conversion rate		2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,205 lb/MT					

Source of conversion rates: onlineconversion.com/weight_common.htm

Summary of Total Construction Emissions by Phase

	ROG	NOx	PM10 Exh	PM10 Dust	Total PM10	PM2.5 Exh	PM2.5 Dust	Total PM2.5	CO	SOx	CO2e
TOTAL EMISSIONS	**7.1**	**63.7**	**2.7**	**6.8**	**9.5**	**2.7**	**0.8**	**3.5**	**36.2**	**0.09**	**8,110**
(units)	tons	tons	tons	tons	tons	tons	tons	tons	tons	tons	MT
Annual Emissions											
2013	**0.3**	**5.1**	**0.2**	**0.4**	**0.6**	**0.2**	**0.1**	**0.3**	**2.4**	**0.01**	**655**
2014	**1.9**	**17.9**	**0.8**	**2.1**	**2.8**	**0.8**	**0.2**	**1.0**	**10.6**	**0.03**	**2,259**
2016	**1.3**	**11.3**	**0.5**	**1.2**	**1.7**	**0.5**	**0.1**	**0.6**	**7.0**	**0.02**	**1,443**
2018	**1.6**	**13.7**	**0.6**	**1.3**	**1.8**	**0.6**	**0.2**	**0.7**	**6.5**	**0.02**	**1,725**
2019	**1.9**	**15.6**	**0.7**	**1.9**	**2.5**	**0.7**	**0.2**	**0.9**	**9.6**	**0.02**	**2,028**
(units)	tons/year	tons/year	tons/year	tons/year	tons/year	tons/year	tons/year	tons/year	tons/year	tons/year	MT/year

Daily ROG Emissions by Schedule
Road Focused Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES	0.0															
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	21.0	Fri 8/16/13	Thu 9/12/13	1	0	0	2	2	2	2	2					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			2	2	2	2	2			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					29	29	29	29	29	
Complete Environmental Construction (Refresh and Remaining)	21.0	Thu 5/1/14	Wed 5/28/14	1	1	1										2
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	31.5	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	94.5	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.5	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.3	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.3	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.5	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	21.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.3	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	32.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	48.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	46.4	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	32.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	64.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	28.5	Wed 8/7/19	Tue 9/17/19	1	1	0										
						Total Emiss in PCAPCD juris.	2	2	4	4	33	31	31	29	29	2
						Exceedance of PCAPCD's TOS of 82 lb/day?	—	—	—	—	—	—	—	—	—	—
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	2
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	—
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	2
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—	—	—

Daily ROG Emissions by Schedule
Road Focused Alternative

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	8																					
Complete Physical Construction				6	6	6	6															
Complete Electrical Construction								6	6	6	6											
Complete System Protection Construction												2	2	2	2							
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	2	2	2	2																		
Complete Road Construction (Remaining)		2	2	2	2	2																
Complete Logging Operations (Remaining)				29	29	29	29	29														
Complete Foundation Construction		8	8	8	8	8	8	8														
Complete Line Construction						23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
Complete Removals																		12	12	12	12	12
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	11	12	12	47	45	68	66	65	29	29	29	25	25	25	25	28	28	40	40	35	35	35
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	2	12	12	41	39	62	60	60	23	23	23	23	23	23	23	23	23	35	35	35	35	35
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	2	10	10	10	8	31	31	31	23	23	23	23	23	23	23	23	23	35	35	35	35	35
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily ROG Emissions by Schedule
Road Focused Alternative

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			9																			
Complete Physical Construction				6	6	6	6															
Complete Electrical Construction								6	6	6	6											
Complete System Protection Construction												2	2	2	2							
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			8																			
Complete Physical Construction				6	6	6	6															
Complete Electrical Construction								6	6	6	6											
Complete System Protection Construction												2	2	2	2							
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			9																			
Complete Physical Construction				6	6	6	6															
Complete Electrical Construction								6	6	6	6											
Complete System Protection Construction												2	2	2	2							
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												9	9	9	9							
Complete Physical Construction								6	6	6	6											
Complete Electrical Construction					6	6	6															
Complete System Protection Construction			2	2																		
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	23	23																				
Complete Removals	12	12																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			2	2	2																	
Complete Logging Operations					31	31																
Complete Road Construction						3	3															
Complete Foundation Construction							8	8	8													
Complete Line Construction										23	23	23	23									
Complete Removals													14									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				23	23	23
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	35	35	22	17	51	52	29	25	25	41	41	36	49	12	12	15	15	15	15	23	23	23
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	35	35	13	10	45	45	23	20	20	35	35	34	48	11	11	10	10	10	10	23	23	23
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	35	35	9	6	6	6	6	6	6	6	6	2	2	2	2	5	5	5	5	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily ROG Emissions by Schedule
Road Focused Alternative

																				2019		
		Jun					Jul				Aug					Sep				May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				9	9	9
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				9	9	
Complete Physical Construction																						6
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	23	23	23	23	23	23																
Complete Road Construction		23	23	23	23	23	23	23	23	23	23	23	23	23								
Complete Logging Operations								29	29	29	29	29	29	29	29	29	29	29	29			
Complete Foundation Construction																				8	8	8
Complete Line Construction																						
Complete Removals																						
	23	45	45	45	45	45	23	52	52	52	52	52	52	52	29	29	29	29	29	25	25	23
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	23	45	45	45	45	45	23	52	52	52	52	52	52	52	29	29	29	29	29	16	16	16
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily ROG Emissions by Schedule
Road Focused Alternative

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	9																				
Complete Physical Construction	6	6	6	6																	
Complete Electrical Construction					6	6	6	6													
Complete System Protection Construction									2	2	2	2									
Complete Offsite Improvements and Mitigations													5	5	5	5					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	6	6	6																		
Complete Electrical Construction				6	6	6	6														
Complete System Protection Construction								2	2	2	2										
Complete Offsite Improvements and Mitigations												5	5	5	5						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		9	9	9	9																
Complete Physical Construction						6	6	6	6												
Complete Electrical Construction										6	6	6	6								
Complete System Protection Construction														2	2	2	2				
Complete Offsite Improvements and Mitigations																		5	5	5	5
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	8	8	8	8	8	8															
Complete Line Construction		26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26			
Complete Removals												14	14	14	14	14	14	14			
	29	54	54	54	53	51	44	40	36	35	35	52	55	52	52	46	41	44	5	5	5
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	23	48	48	48	48	45	38	38	34	33	33	47	50	46	46	46	41	44	5	5	5
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily NOx Emissions by Schedule
Road Focused Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES	0.0															
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	21.0	Fri 8/16/13	Thu 9/12/13	1	0	0	118	118	118	118	118					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			118	118	118	118	118			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					266	266	266	266	266	
Complete Environmental Construction (Refresh and Remaining)	21.0	Thu 5/1/14	Wed 5/28/14	1	1	1										118
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	31.5	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	94.5	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.5	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.3	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.3	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.5	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	21.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.3	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	32.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	48.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	46.4	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	32.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	64.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	28.5	Wed 8/7/19	Tue 9/17/19	1	1	0										
	WITHOUT MITIGATION					Total Emiss in PCAPCD juris.	118	118	237	237	503	385	385	266	266	118
						Exceedance of PCAPCD's TOS of 82 lb/day?	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
						Number of weeks PCAPCD's TOS is exceeded	94									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	118
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	yes
						Number of weeks PCAPCD's TOS is exceeded in LTAB	79									
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	118
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks NSAQMD's TOS is exceeded	22									
	WITH MITIGATION MEASURE 4.13-1b															
						Reduction in NOx from Off-Road Equip with implementation of MM 4.13-1b	20%									
						Total Emiss in PCAPCD juris.	95	95	189	189	403	308	308	213	213	95
						Exceedance of PCAPCD's TOS of 82 lb/day?	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
						Number of weeks PCAPCD's TOS is exceeded	92									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	95
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	yes
						Number of weeks PCAPCD's TOS is exceeded in LTAB	79									
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	95
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks NSAQMD's TOS is exceeded	22									

Daily NOx Emissions by Schedule
Road Focused Alternative

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	65																					
Complete Physical Construction				13	13	13	13															
Complete Electrical Construction								45	45	45	45											
Complete System Protection Construction												13	13	13	13							
Complete Offsite Improvements and Mitigations																37	37	37	37			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	118	118	118	118																		
Complete Road Construction (Remaining)		118	118	118	118	118																
Complete Logging Operations (Remaining)				266	266	266	266	266														
Complete Foundation Construction		64	64	64	64	64	64	64														
Complete Line Construction						192	192	192	192	192	192	192	192	192	192	192	192	192	192	192	192	192
Complete Removals																		100	100	100	100	100
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	184	301	301	581	463	654	536	567	237	237	237	205	205	205	205	229	229	330	330	292	292	292
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	118	301	301	568	449	641	523	523	192	192	192	192	192	192	192	192	192	292	292	292	292	292
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	118	183	183	183	64	256	256	256	192	192	192	192	192	192	192	192	192	292	292	292	292	292
	—	yes	yes	yes	—	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	147	241	241	465	370	523	429	454	189	189	189	164	164	164	164	183	183	264	264	234	234	234
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	95	241	241	454	359	513	418	418	153	153	153	153	153	153	153	153	153	234	234	234	234	234
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	95	146	146	146	52	205	205	205	153	153	153	153	153	153	153	153	153	234	234	234	234	234
	—	yes	yes	yes	—	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes

Daily NOx Emissions by Schedule
Road Focused Alternative

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			69																			
Complete Physical Construction				50	50	50	50															
Complete Electrical Construction								46	46	46	46											
Complete System Protection Construction												14	14	14	14							
Complete Offsite Improvements and Mitigations																38	38	38	38			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			65																			
Complete Physical Construction				48	48	48	48															
Complete Electrical Construction								45	45	45	45											
Complete System Protection Construction												13	13	13	13							
Complete Offsite Improvements and Mitigations																37	37	37	37			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			68																			
Complete Physical Construction				50	50	50	50															
Complete Electrical Construction								46	46	46	46											
Complete System Protection Construction												14	14	14	14							
Complete Offsite Improvements and Mitigations																38	38	38	38			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												67	67	67	67							
Complete Physical Construction								50	50	50	50											
Complete Electrical Construction					46	46	46															
Complete System Protection Construction			14	14																		
Complete Offsite Improvements and Mitigations																38	38	38	38			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	192	192																				
Complete Removals	100	100																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			120	120	120																	
Complete Logging Operations					294	294																
Complete Road Construction						125	125															
Complete Foundation Construction							67	67	67													
Complete Line Construction										192	192	192	192									
Complete Removals													116									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				189	189	189
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	292	292	268	233	558	563	337	208	208	333	333	286	402	94	94	114	114	114	114	189	189	189
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	292	292	203	184	510	514	288	163	163	288	288	273	389	81	81	77	77	77	77	189	189	189
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—	—	—	—	yes	yes	yes
	292	292	68	50	50	50	50	46	46	46	46	14	14	14	14	38	38	38	38	0	0	0
	yes	yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	234	234	215	186	447	450	269	167	167	266	266	229	322	75	75	92	92	92	92	151	151	151
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—	—	yes	yes	yes	yes	yes	yes	yes
	234	234	163	147	408	412	231	131	131	231	231	219	311	65	65	62	62	62	62	151	151	151
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—	—	—	—	yes	yes	yes
	234	234	55	40	40	40	40	37	37	37	37	11	11	11	11	31	31	31	31	0	0	0
	yes	yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily NOx Emissions by Schedule
Road Focused Alternative

																				2019			
		Jun					Jul				Aug					Sep				May			
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																							
PHASE 1 SUBSTATIONS - NORTHSTAR																							
Complete Civil Construction																							
Complete Physical Construction																							
Complete Electrical Construction																							
Complete System Protection Construction																							
Complete Offsite Improvements and Mitigations																							
PHASE 2 SUBSTATIONS - KINGS BEACH																							
Complete Civil Construction																							
Complete Physical Construction																							
Complete Electrical Construction																							
Complete System Protection Construction																							
Complete Offsite Improvements and Mitigations																							
PHASE 2 SUBSTATION - NORTHSTAR																							
Complete Civil Construction																							
Complete Physical Construction																							
Complete Electrical Construction																							
Complete System Protection Construction																							
Complete Offsite Improvements and Mitigations																							
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																							
Complete Civil Construction																							
Complete Physical Construction																							
Complete Electrical Construction																							
Complete System Protection Construction																							
Complete Offsite Improvements and Mitigations																							
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																							
Complete Civil Construction																							
Complete Physical Construction																							
Complete Electrical Construction																							
Complete System Protection Construction																							
Complete Offsite Improvements and Mitigations																							
PHASE 3 SUBSTATIONS - TAHOE CITY																							
Complete Civil Construction																				69	69	69
Complete Physical Construction																							
Complete Electrical Construction																							
Complete System Protection Construction																							
Complete Offsite Improvements and Mitigations																							
PHASE 3 SUBSTATIONS - SQUAW VALLEY																							
Complete Civil Construction																				69	69	
Complete Physical Construction																						51
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																							
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																							
Complete Environmental Construction (USFS Out of Basin only)																							
Complete Road Construction (USFS Out of Basin only)																							
Complete Logging Operations (USFS Out of Basin only)																							
Complete Environmental Construction (Refresh and Remaining)																							
Complete Road Construction (Remaining)																							
Complete Logging Operations (Remaining)																							
Complete Foundation Construction																							
Complete Line Construction																							
Complete Removals																							
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																							
Complete Environmental Construction																							
Complete Logging Operations																							
Complete Road Construction																							
Complete Foundation Construction																							
Complete Line Construction																							
Complete Removals																							
PHASE 3 - 625 LINE UPGRADE																							
Complete Environmental Construction	189	189	189	189	189	189																	
Complete Road Construction		188	188	188	188	188	188	188	188	188	188	188	188	188								
Complete Logging Operations								268	268	268	268	268	268	268	268	268	268	268	268			
Complete Foundation Construction																				64	64	64
Complete Line Construction																						
Complete Removals																						
	189	377	377	377	377	377	188	456	456	456	456	456	456	456	268	268	268	268	268	202	202	184
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	189	377	377	377	377	377	188	456	456	456	456	456	456	456	268	268	268	268	268	133	133	133
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	151	301	301	301	301	301	150	365	365	365	365	365	365	365	214	214	214	214	214	161	161	147
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	151	301	301	301	301	301	150	365	365	365	365	365	365	365	214	214	214	214	214	106	106	106
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily NOx Emissions by Schedule
Road Focused Alternative

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	69																				
Complete Physical Construction	51	51	51	51																	
Complete Electrical Construction					47	47	47	47													
Complete System Protection Construction									15	15	15	15									
Complete Offsite Improvements and Mitigations													39	39	39	39					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	51	51	51																		
Complete Electrical Construction				47	47	47	47														
Complete System Protection Construction								15	15	15	15										
Complete Offsite Improvements and Mitigations												39	39	39	39						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		66	66	66	66																
Complete Physical Construction						49	49	49	49												
Complete Electrical Construction										46	46	46	46								
Complete System Protection Construction														14	14	14	14				
Complete Offsite Improvements and Mitigations																		38	38	38	38
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	64	64	64	64	64	64															
Complete Line Construction		212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212			
Complete Removals												114	114	114	114	114	114	114			
	235	444	444	440	436	419	355	323	290	286	286	425	450	418	418	379	339	364	38	38	38
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—
	184	393	393	393	389	372	308	308	276	272	272	386	411	379	379	379	339	364	38	38	38
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	188	355	355	352	349	335	284	258	232	229	229	340	360	334	334	303	272	291	30	30	30
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—
	147	315	315	315	311	298	246	246	220	217	217	309	329	303	303	303	272	291	30	30	30
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Emissions by Schedule (including PM10 Exhaust and PM10 dust) — Road Focused Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES	0.0															
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	21.0	Fri 8/16/13	Thu 9/12/13	1	0	0	22	22	22	22	22					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			22	22	22	22	22			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					20	20	20	20	20	
Complete Environmental Construction (Refresh and Remaining)	21.0	Thu 5/1/14	Wed 5/28/14	1	1	1										22
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	31.5	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	94.5	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.5	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.3	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.3	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.5	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	21.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.3	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	32.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	48.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	46.4	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	32.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	64.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	28.5	Wed 8/7/19	Tue 9/17/19	1	1	0										
	WITHOUT MITIGATION					Total Emiss in PCAPCD juris.	22	22	44	44	63	41	41	20	20	22
						Exceedance of PCAPCD's TOS of 82 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded	1									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	22
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded in LTAB	1									
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	22
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks NSAQMD's TOS is exceeded	0									
	WITH MITIGATION MEASURE 4.13-1a															
						Minimum proportion of PM10 Exhaust that is from Off-Road Equipment	77%	This value is shown on wksht RF Emiss by Act & Src. It is conserv								
						Reduction in PM10 Exh from Off-Road Equip with implementation of MM 4.13-1a	45%									
						Net Reduction in PM10 Exh	35%	This value is necessary because the 45% reduction in PM10 Exh								
						Total Emiss in PCAPCD juris.	20	20	40	40	56	36	36	16	16	20
						Exceedance of PCAPCD's TOS of 82 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded	1	Thus, implementation of MM 4.13-1a would reduce Maximum D								
						Peak Emiss in PCAPCD Juris	82.1									
						2nd Peak Emiss in PCAPCD Juris	72.0									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	20
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded in LTAB	0	Thus, implementation of MM 4.13-1a would reduce Maximum D								

Daily PM10 Emissions by Schedule (including PM

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	14																					
Complete Physical Construction				4	4	4	4															
Complete Electrical Construction								4	4	4	4											
Complete System Protection Construction												3	3	3	3							
Complete Offsite Improvements and Mitigations																4	4	4	4			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	22	22	22	22																		
Complete Road Construction (Remaining)		22	22	22	22	22																
Complete Logging Operations (Remaining)				20	20	20	20	20														
Complete Foundation Construction		13	13	13	13	13	13	13														
Complete Line Construction						33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
Complete Removals																		16	16	16	16	16
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	36	56	56	80	58	91	70	70	37	37	37	36	36	36	36	37	37	53	53	49	49	49
	—	—	—	—	—	yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	22	56	56	76	54	87	65	65	33	33	33	33	33	33	33	33	33	49	49	49	49	49
	—	—	—	—	—	yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	22	35	35	35	13	46	46	46	33	33	33	33	33	33	33	33	33	49	49	49	49	49
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	ative to use this value because it is the lowest proportion of PM10 Exhaust that comes from Off-Road Equipment for any individual construction activity (e.g																					
	required by MM 4.13-1a would only apply to the portion of PM10 Exh from off-road construction equipment.																					
	33	52	52	72	52	82	62	62	34	34	34	33	33	33	33	34	34	48	48	44	44	44
	—	—	—	—	—	yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Daily Levels of PM10 (total) to less than PCAPCD's threshold of 82 lb/day.																					
	20	52	52	68	48	78	58	58	30	30	30	30	30	30	30	30	30	44	44	44	44	44
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Daily Levels of PM10 (total) in the LTAB to less than PCAPCD's threshold of 82 lb/day.																					

Daily PM10 Emissions by Schedule (including PM

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			16																			
Complete Physical Construction				7	7	7	7															
Complete Electrical Construction								5	5	5	5											
Complete System Protection Construction												4	4	4	4							
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			14																			
Complete Physical Construction				6	6	6	6															
Complete Electrical Construction								4	4	4	4											
Complete System Protection Construction												3	3	3	3							
Complete Offsite Improvements and Mitigations																4	4	4	4			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			16																			
Complete Physical Construction				6	6	6	6															
Complete Electrical Construction								5	5	5	5											
Complete System Protection Construction												3	3	3	3							
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												15	15	15	15							
Complete Physical Construction								6	6	6	6											
Complete Electrical Construction					5	5	5															
Complete System Protection Construction			3	3																		
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	33	33																				
Complete Removals	16	16																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			23	23	23																	
Complete Logging Operations					24	24																
Complete Road Construction						25	25															
Complete Foundation Construction							14	14	14													
Complete Line Construction										33	33	33	33									
Complete Removals													18									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				34	34	34
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	49	49	57	38	64	66	56	30	30	49	49	55	73	22	22	13	13	13	13	34	34	34
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	49	49	42	33	58	60	50	26	26	45	45	52	70	19	19	9	9	9	9	34	34	34
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	49	49	16	6	6	6	6	5	5	5	5	3	3	3	3	5	5	5	5	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

., road construction, line construction, line removal). Moreover, it is based on the proportion of PM10 exhaust from off-road equipment during "Complete R

44	44	52	35	56	58	51	27	27	44	44	51	67	20	20	11	11	11	11	31	31	31
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
44	44	39	30	51	53	46	23	23	40	40	48	64	17	17	8	8	8	8	31	31	31
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Emissions by Schedule (including PM

																				2019		
		Jun					Jul				Aug					Sep				May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				16	16	16
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				16	16	
Complete Physical Construction																						7
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	34	34	34	34	34	34																
Complete Road Construction		34	34	34	34	34	34	34	34	34	34	34	34	34								
Complete Logging Operations								20	20	20	20	20	20	20	20	20	20	20	20			
Complete Foundation Construction																				13	13	13
Complete Line Construction																						
Complete Removals																						
	34	68	68	68	68	68	34	54	54	54	54	54	54	54	20	20	20	20	20	45	45	35
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	34	68	68	68	68	68	34	54	54	54	54	54	54	54	20	20	20	20	20	29	29	29
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

emovals" activity (i.e., line removal), as shown on wksht RF Emiss by Act & Src; however this activity, is not one of the weeks when PM10 emissions could pe

31	63	63	63	63	63	31	47	47	47	47	47	47	47	16	16	16	16	16	41	41	33
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
31	63	63	63	63	63	31	47	47	47	47	47	47	47	16	16	16	16	16	27	27	27
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Emissions by Schedule (including PM

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	16																				
Complete Physical Construction	7	7	7	7																	
Complete Electrical Construction					5	5	5	5													
Complete System Protection Construction									4	4	4	4									
Complete Offsite Improvements and Mitigations													5	5	5	5					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	7	7	7																		
Complete Electrical Construction				5	5	5	5														
Complete System Protection Construction								4	4	4	4										
Complete Offsite Improvements and Mitigations												5	5	5	5						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		15	15	15	15																
Complete Physical Construction						6	6	6	6												
Complete Electrical Construction										5	5	5	5								
Complete System Protection Construction														3	3	3	3				
Complete Offsite Improvements and Mitigations																		4	4	4	4
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	13	13	13	13	13	13															
Complete Line Construction		34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34				
Complete Removals												17	17	17	17	17	17	17			
	43	75	75	74	72	63	51	49	48	46	46	64	66	64	64	59	54	55	4	4	4
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	36	69	69	69	67	58	46	46	44	43	43	60	61	59	59	59	54	55	4	4	4
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	ak to their highest, worst-case levels.																				
	39	69	69	67	66	57	46	45	43	42	42	58	59	58	58	54	49	50	4	4	4
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	33	63	63	63	61	53	41	41	40	39	39	54	55	54	54	54	49	50	4	4	4
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Exhaust Emissions by Schedule

RF Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES																
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	20.0	Fri 8/16/13	Thu 9/12/13	1	0	0	5	5	5	5	5					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			5	5	5	5	5			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					10	10	10	10	10	
Complete Environmental Construction (Refresh and Remaining)	20.0	Thu 5/1/14	Wed 5/28/14	1	1	1										5
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	30.0	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	90.0	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.0	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.0	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.0	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.0	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	20.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.0	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	40.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	60.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	58.0	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	40.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	80.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	30.0	Wed 8/7/19	Tue 9/17/19	1	1	0										
						Total Emiss in PCAPCD juris.	5	5	10	10	20	15	15	10	10	5
						Exceedance of PCAPCD's TOS of 82 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded	0									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	5
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded in LTAB	0									
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	5
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks NSAQMD's TOS is exceeded	0									

Daily PM10 Exhaust Emissions by Schedule

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	3																					
Complete Physical Construction				1	1	1	1															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	5	5	5	5																		
Complete Road Construction (Remaining)		5	5	5	5	5																
Complete Logging Operations (Remaining)				10	10	10	10	10														
Complete Foundation Construction		2	2	2	2	2	2	2														
Complete Line Construction						8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Complete Removals																		4	4	4	4	4
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	8	12	12	23	18	27	22	23	10	10	10	9	9	9	9	10	10	14	14	12	12	12
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	5	12	12	23	18	26	21	21	8	8	8	8	8	8	8	8	8	12	12	12	12	12
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	5	7	7	7	2	11	11	11	8	8	8	8	8	8	8	8	8	12	12	12	12	12
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Exhaust Emissions by Schedule

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			3																			
Complete Physical Construction				2	2	2	2															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			3																			
Complete Physical Construction				2	2	2	2															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			3																			
Complete Physical Construction				2	2	2	2															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												3	3	3	3							
Complete Physical Construction								2	2	2	2											
Complete Electrical Construction					2	2	2															
Complete System Protection Construction			1	1																		
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	8	8																				
Complete Removals	4	4																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			5	5	5																	
Complete Logging Operations					11	11																
Complete Road Construction						5	5															
Complete Foundation Construction							2	2	2													
Complete Line Construction										8	8	8	8									
Complete Removals													5									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				8	8	8
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	12	12	12	10	23	23	14	9	9	15	15	13	18	5	5	5	5	5	5	8	8	8
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	12	12	9	8	21	21	12	7	7	13	13	12	17	4	4	4	4	4	4	8	8	8
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	12	12	3	2	2	2	2	2	2	2	2	1	1	1	1	2	2	2	2	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Exhaust Emissions by Schedule

																				2019		
		Jun					Jul				Aug					Sep				May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				3	3	3
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				3	3	
Complete Physical Construction																						2
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	8	8	8	8	8	8																
Complete Road Construction		8	8	8	8	8	8	8	8	8	8	8	8	8								
Complete Logging Operations								10	10	10	10	10	10	10	10	10	10	10	10			
Complete Foundation Construction																				2	2	2
Complete Line Construction																						
Complete Removals																						
	8	16	16	16	16	16	8	18	18	18	18	18	18	18	10	10	10	10	10	9	9	8
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	8	16	16	16	16	16	8	18	18	18	18	18	18	18	10	10	10	10	10	6	6	6
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Exhaust Emissions by Schedule

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	3																				
Complete Physical Construction	2	2	2	2																	
Complete Electrical Construction					2	2	2	2													
Complete System Protection Construction									1	1	1	1									
Complete Offsite Improvements and Mitigations													2	2	2	2					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	2	2	2																		
Complete Electrical Construction				2	2	2	2														
Complete System Protection Construction								1	1	1	1										
Complete Offsite Improvements and Mitigations												2	2	2	2						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		3	3	3	3																
Complete Physical Construction						2	2	2	2												
Complete Electrical Construction										2	2	2	2								
Complete System Protection Construction														1	1	1	1				
Complete Offsite Improvements and Mitigations																		2	2	2	2
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	2	2	2	2	2	2															
Complete Line Construction		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9			
Complete Removals												4	4	4	4	4	4	4			
	10	19	19	19	19	18	15	14	13	12	12	18	19	18	18	16	14	15	2	2	2
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	8	17	17	17	17	16	13	13	12	12	12	16	17	16	16	16	14	15	2	2	2
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Dust Emissions by Schedule

RF Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES																
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	20.0	Fri 8/16/13	Thu 9/12/13	1	0	0	17	17	17	17	17					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			17	17	17	17	17			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					9	9	9	9	9	
Complete Environmental Construction (Refresh and Remaining)	20.0	Thu 5/1/14	Wed 5/28/14	1	1	1										17
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	30.0	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	90.0	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.0	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.0	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.0	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.0	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	20.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.0	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	40.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	60.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	58.0	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	40.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	80.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	30.0	Wed 8/7/19	Tue 9/17/19	1	1	0										
						Total Emiss in PCAPCD juris.	17	17	34	34	43	26	26	9	9	17
						Exceedance of PCAPCD's TOS of 82 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded	0									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	17
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded in LTAB	0									
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	17
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks NSAQMD's TOS is exceeded	0									

Daily PM10 Dust Emissions by Schedule

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	11																					
Complete Physical Construction				3	3	3	3															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												2	2	2	2							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	17	17	17	17																		
Complete Road Construction (Remaining)		17	17	17	17	17																
Complete Logging Operations (Remaining)				9	9	9	9	9														
Complete Foundation Construction		10	10	10	10	10	10	10														
Complete Line Construction						25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Complete Removals																		12	12	12	12	12
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	28	44	44	57	40	65	48	47	27	27	27	27	27	27	27	27	27	39	39	36	36	36
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	17	44	44	53	36	61	44	44	25	25	25	25	25	25	25	25	25	36	36	36	36	36
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	17	27	27	27	10	35	35	35	25	25	25	25	25	25	25	25	25	36	36	36	36	36
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Dust Emissions by Schedule

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			13																			
Complete Physical Construction				4	4	4	4															
Complete Electrical Construction								3	3	3	3											
Complete System Protection Construction												3	3	3	3							
Complete Offsite Improvements and Mitigations																3	3	3	3			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			11																			
Complete Physical Construction				3	3	3	3															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												2	2	2	2							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			13																			
Complete Physical Construction				4	4	4	4															
Complete Electrical Construction								3	3	3	3											
Complete System Protection Construction												3	3	3	3							
Complete Offsite Improvements and Mitigations																3	3	3	3			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												12	12	12	12							
Complete Physical Construction								4	4	4	4											
Complete Electrical Construction					3	3	3															
Complete System Protection Construction			3	3																		
Complete Offsite Improvements and Mitigations																3	3	3	3			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	25	25																				
Complete Removals	12	12																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			18	18	18																	
Complete Logging Operations					13	13																
Complete Road Construction						19	19															
Complete Foundation Construction							12	12	12													
Complete Line Construction										25	25	25	25									
Complete Removals													13									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				26	26	26
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	36	36	44	28	41	43	42	21	21	34	34	42	55	17	17	8	8	8	8	26	26	26
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	36	36	33	25	38	39	38	19	19	32	32	40	53	15	15	6	6	6	6	26	26	26
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	36	36	13	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Dust Emissions by Schedule

																				2019		
		Jun					Jul				Aug					Sep				May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				13	13	13
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				13	13	
Complete Physical Construction																						5
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	26	26	26	26	26	26																
Complete Road Construction		26	26	26	26	26	26	26	26	26	26	26	26	26								
Complete Logging Operations								9	9	9	9	9	9	9	9	9	9	9	9			
Complete Foundation Construction																				10	10	10
Complete Line Construction																						
Complete Removals																						
	26	52	52	52	52	52	26	35	35	35	35	35	35	35	9	9	9	9	9	36	36	27
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	26	52	52	52	52	52	26	35	35	35	35	35	35	35	9	9	9	9	9	23	23	23
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Dust Emissions by Schedule

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	13																				
Complete Physical Construction	5	5	5	5																	
Complete Electrical Construction					3	3	3	3													
Complete System Protection Construction									3	3	3	3									
Complete Offsite Improvements and Mitigations													3	3	3	3					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	5	5	5																		
Complete Electrical Construction				3	3	3	3														
Complete System Protection Construction								3	3	3	3										
Complete Offsite Improvements and Mitigations												3	3	3	3						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		12	12	12	12																
Complete Physical Construction						4	4	4	4												
Complete Electrical Construction										3	3	3	3								
Complete System Protection Construction														3	3	3	3				
Complete Offsite Improvements and Mitigations																		3	3	3	3
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	10	10	10	10	10	10															
Complete Line Construction		25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25			
Complete Removals												12	12	12	12	12	12	12			
	32	56	56	55	54	46	36	35	35	34	34	46	47	46	46	43	40	40	3	3	3
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	28	52	52	52	50	43	32	32	32	31	31	43	44	43	43	43	40	40	3	3	3
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM2.5 Emissions by Schedule (including PM2.5 Exhaust and PM2.5 dust) — Road Focused Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES	0.0															
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	21.0	Fri 8/16/13	Thu 9/12/13	1	0	0	7	7	7	7	7					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			7	7	7	7	7			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					11	11	11	11	11	
Complete Environmental Construction (Refresh and Remaining)	21.0	Thu 5/1/14	Wed 5/28/14	1	1	1										7
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	31.5	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	94.5	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.5	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.3	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.3	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.5	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	21.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.3	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	32.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	48.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	46.4	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	32.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	64.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	28.5	Wed 8/7/19	Tue 9/17/19	1	1	0										
						Total Emiss in PCAPCD juris.	7	7	14	14	25	18	18	11	11	7
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	7
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	7

Daily PM2.5 Emissions by Schedule (including P

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	5																					
Complete Physical Construction				1	1	1	1															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	7	7	7	7																		
Complete Road Construction (Remaining)		7	7	7	7	7																
Complete Logging Operations (Remaining)				11	11	11	11	11														
Complete Foundation Construction		3	3	3	3	3	3	3														
Complete Line Construction						11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Complete Removals																		5	5	5	5	5
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	12	17	17	30	23	34	27	28	14	14	14	12	12	12	12	13	13	19	19	17	17	17
	7	17	17	29	22	33	26	26	11	11	11	11	11	11	11	11	11	17	17	17	17	17
	7	10	10	10	3	15	15	15	11	11	11	11	11	11	11	11	11	17	17	17	17	17

Daily PM2.5 Emissions by Schedule (including P

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			5																			
Complete Physical Construction				3	3	3	3															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			5																			
Complete Physical Construction				3	3	3	3															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			5																			
Complete Physical Construction				3	3	3	3															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												5	5	5	5							
Complete Physical Construction								3	3	3	3											
Complete Electrical Construction					2	2	2															
Complete System Protection Construction			1	1																		
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	11	11																				
Complete Removals	5	5																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			7	7	7																	
Complete Logging Operations					12	12																
Complete Road Construction						7	7															
Complete Foundation Construction							4	4	4													
Complete Line Construction										11	11	11	11									
Complete Removals													6									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				11	11	11
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	17	17	18	14	27	28	19	11	11	19	19	18	24	7	7	6	6	6	6	11	11	11
	17	17	13	11	25	25	16	9	9	16	16	17	23	6	6	4	4	4	4	11	11	11
	17	17	5	3	3	3	3	2	2	2	2	1	1	1	1	2	2	2	2	0	0	0

Daily PM2.5 Emissions by Schedule (including P

		Jun					Jul				Aug					Sep				2019 May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				5	5	5
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				5	5	
Complete Physical Construction																						3
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	11	11	11	11	11	11																
Complete Road Construction		11	11	11	11	11	11	11	11	11	11	11	11	11								
Complete Logging Operations								11	11	11	11	11	11	11	11	11	11	11	11			
Complete Foundation Construction																				3	3	3
Complete Line Construction																						
Complete Removals																						
	11	23	23	23	23	23	11	23	23	23	23	23	23	23	11	11	11	11	11	13	13	11
	11	23	23	23	23	23	11	23	23	23	23	23	23	23	11	11	11	11	11	8	8	8
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daily PM2.5 Emissions by Schedule (including P

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	5																				
Complete Physical Construction	3	3	3	3																	
Complete Electrical Construction					2	2	2	2													
Complete System Protection Construction									1	1	1	1									
Complete Offsite Improvements and Mitigations													2	2	2	2					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	3	3	3																		
Complete Electrical Construction				2	2	2	2														
Complete System Protection Construction								1	1	1	1										
Complete Offsite Improvements and Mitigations												2	2	2	2						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		5	5	5	5																
Complete Physical Construction						3	3	3	3												
Complete Electrical Construction										2	2	2	2								
Complete System Protection Construction														1	1	1	1				
Complete Offsite Improvements and Mitigations																		2	2	2	2
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	3	3	3	3	3	3															
Complete Line Construction		12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12			
Complete Removals												6	6	6	6	6	6	6			
	14	26	26	25	25	23	19	18	17	16	16	23	24	23	23	21	19	20	2	2	2
	11	23	23	23	22	20	17	17	16	15	15	21	22	21	21	21	19	20	2	2	2
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daily CO Emissions by Schedule
Road Focused Alternative

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES																
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	20.0	Fri 8/16/13	Thu 9/12/13	1	0	0	60	60	60	60	60					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			60	60	60	60	60			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					117	117	117	117	117	
Complete Environmental Construction (Refresh and Remaining)	20.0	Thu 5/1/14	Wed 5/28/14	1	1	1										60
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	30.0	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	90.0	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.0	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.0	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.0	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.0	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	20.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.0	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	40.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	60.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	58.0	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	40.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	80.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	30.0	Wed 8/7/19	Tue 9/17/19	1	1	0										
				Total Emiss in PCAPCD juris.			60	60	120	120	238	178	178	117	117	60
					Total Emiss in LTAB		0	0	0	0	0	0	0	0	0	60
				Total Emiss in NSAQMD juris.			0	0	0	0	0	0	0	0	0	60

Daily CO Emissions by Schedule
Road Focused Alternative

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	40																					
Complete Physical Construction				13	13	13	13															
Complete Electrical Construction								37	37	37	37											
Complete System Protection Construction												12	12	12	12							
Complete Offsite Improvements and Mitigations																21	21	21	21			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	60	60	60	60																		
Complete Road Construction (Remaining)		60	60	60	60	60																
Complete Logging Operations (Remaining)				117	117	117	117	117														
Complete Foundation Construction		35	35	35	35	35	35	35														
Complete Line Construction						126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126
Complete Removals																		53	53	53	53	53
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	100	156	156	286	226	352	292	316	163	163	163	138	138	138	138	147	147	199	199	179	179	179
	60	156	156	273	213	339	279	279	126	126	126	126	126	126	126	126	126	179	179	179	179	179
	60	95	95	95	35	161	161	161	126	126	126	126	126	126	126	126	126	179	179	179	179	179

Daily CO Emissions by Schedule
Road Focused Alternative

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			41																			
Complete Physical Construction				30	30	30	30															
Complete Electrical Construction								38	38	38	38											
Complete System Protection Construction												12	12	12	12							
Complete Offsite Improvements and Mitigations																21	21	21	21			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			40																			
Complete Physical Construction				29	29	29	29															
Complete Electrical Construction								37	37	37	37											
Complete System Protection Construction												12	12	12	12							
Complete Offsite Improvements and Mitigations																21	21	21	21			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			41																			
Complete Physical Construction				30	30	30	30															
Complete Electrical Construction								38	38	38	38											
Complete System Protection Construction												12	12	12	12							
Complete Offsite Improvements and Mitigations																21	21	21	21			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												40	40	40	40							
Complete Physical Construction								30	30	30	30											
Complete Electrical Construction					38	38	38															
Complete System Protection Construction			12	12																		
Complete Offsite Improvements and Mitigations																21	21	21	21			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	126	126																				
Complete Removals	53	53																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			61	61	61																	
Complete Logging Operations					125	125																
Complete Road Construction						62	62															
Complete Foundation Construction							36	36	36													
Complete Line Construction										126	126	126	126									
Complete Removals													56									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				93	93	93
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	179	179	154	132	283	285	196	142	142	231	231	190	246	64	64	63	63	63	63	93	93	93
	179	179	114	103	254	255	166	104	104	194	194	179	235	52	52	42	42	42	42	93	93	93
	179	179	41	30	30	30	30	38	38	38	38	12	12	12	12	21	21	21	21	0	0	0

Daily CO Emissions by Schedule
Road Focused Alternative

																				2019		
		Jun					Jul				Aug					Sep				May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				41	41	41
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				41	41	
Complete Physical Construction																						30
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	93	93	93	93	93	93																
Complete Road Construction		93	93	93	93	93	93	93	93	93	93	93	93	93								
Complete Logging Operations								118	118	118	118	118	118	118	118	118	118	118	118			
Complete Foundation Construction																				35	35	35
Complete Line Construction																						
Complete Removals																						
	93	186	186	186	186	186	93	211	211	211	211	211	211	211	118	118	118	118	118	117	117	106
	93	186	186	186	186	186	93	211	211	211	211	211	211	211	118	118	118	118	118	76	76	76
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daily CO Emissions by Schedule
Road Focused Alternative

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	41																				
Complete Physical Construction	30	30	30	30																	
Complete Electrical Construction					38	38	38	38													
Complete System Protection Construction									12	12	12	12									
Complete Offsite Improvements and Mitigations													21	21	21	21					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	30	30	30																		
Complete Electrical Construction				38	38	38	38														
Complete System Protection Construction								12	12	12	12										
Complete Offsite Improvements and Mitigations												21	21	21	21						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		40	40	40	40																
Complete Physical Construction						30	30	30	30												
Complete Electrical Construction										38	38	38	38								
Complete System Protection Construction														12	12	12	12				
Complete Offsite Improvements and Mitigations																		21	21	21	21
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	35	35	35	35	35	35															
Complete Line Construction		131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131			
Complete Removals												55	55	55	55	55	55	55			
	137	267	267	275	283	272	237	211	185	194	194	258	267	241	241	220	198	207	21	21	21
	106	237	237	237	245	234	199	199	173	181	181	237	246	220	220	220	198	207	21	21	21
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Summary of Total Construction Emissions by Phase

Proposed Project/Action

Task Name	Work Days (No.)	Emissions per Construction Activity (lb/activity) ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Schedule Parameters: Year in which Activity would Occur 2013	2014	2016	2018	2019
PHASE 1 SUBSTATIONS - NORTHSTAR															
Complete Civil Construction	5.0	42	327	16	56	16	8	199	0	43,747	0	1	0	0	0
Complete Physical Construction	20.0	121	264	15	70	15	7	263	0	40,261	0	1	0	0	0
Complete Electrical Construction	20.0	113	894	39	48	38	5	750	1	127,430	0	1	0	0	0
Complete System Protection Construction	20.0	37	262	15	48	15	5	237	0	37,503	0	1	0	0	0
Complete Offsite Improvements and Mitigations	20.0	99	750	35	48	34	5	416	1	107,197	0	1	0	0	0
PHASE 2 SUBSTATIONS - KINGS BEACH															
Complete Civil Construction	5.0	44	346	16	65	16	8	206	1	47,602	0	0	1	0	0
Complete Physical Construction	20.0	125	1,007	47	86	47	9	599	1	139,471	0	0	1	0	0
Complete Electrical Construction	20.0	116	923	39	60	39	6	760	1	133,212	0	0	1	0	0
Complete System Protection Construction	20.0	39	282	15	56	15	6	244	0	41,357	0	0	1	0	0
Complete Offsite Improvements and Mitigations	20.0	101	770	35	56	35	6	423	1	111,051	0	0	1	0	0
PHASE 2 SUBSTATION - NORTHSTAR															
Complete Civil Construction	5.0	42	327	16	56	16	8	199	0	43,747	0	0	1	0	0
Complete Physical Construction	20.0	121	968	46	70	46	7	586	1	131,762	0	0	1	0	0
Complete Electrical Construction	20.0	113	894	39	48	38	5	750	1	127,430	0	0	1	0	0
Complete System Protection Construction	20.0	37	262	15	48	15	5	237	0	37,503	0	0	1	0	0
Complete Offsite Improvements and Mitigations	20.0	99	750	35	48	34	5	416	1	107,197	0	0	1	0	0
PHASE 2 SUBSTATIONS - NORTH TRUCKEE											0	0	0	0	0
Complete Civil Construction	5.0	44	341	16	63	16	8	204	1	46,638	0	0	1	0	0
Complete Physical Construction	20.0	124	997	47	82	46	8	596	1	137,544	0	0	1	0	0
Complete Electrical Construction	20.0	115	913	39	56	39	6	757	1	131,285	0	0	1	0	0
Complete System Protection Construction	20.0	38	272	15	52	15	5	240	0	39,430	0	0	1	0	0
Complete Offsite Improvements and Mitigations	20.0	101	770	35	56	35	6	423	1	111,051	0	0	1	0	0
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY															
Complete Civil Construction	20.0	172	1,336	64	238	64	32	806	2	180,770	0	0	1	0	0
Complete Physical Construction	20.0	124	997	47	82	46	8	596	1	137,544	0	0	1	0	0
Complete Electrical Construction	15.0	86	685	29	42	29	4	567	1	98,464	0	0	1	0	0
Complete System Protection Construction	10.0	19	136	8	26	8	3	120	0	19,715	0	0	1	0	0
Complete Offsite Improvements and Mitigations	20.0	101	770	35	56	35	6	423	1	111,051	0	0	1	0	0
PHASE 3 SUBSTATIONS - TAHOE CITY															
Complete Civil Construction	20.0	176	1,375	65	255	65	33	819	2	188,479	0	0	0	0	1
Complete Physical Construction	20.0	126	1,027	47	94	47	10	606	2	143,326	0	0	0	0	1
Complete Electrical Construction	20.0	117	943	40	68	40	7	767	1	137,067	0	0	0	0	1
Complete System Protection Construction	20.0	40	292	16	60	16	6	247	0	43,285	0	0	0	0	1
Complete Offsite Improvements and Mitigations	20.0	103	789	36	64	36	6	429	1	114,906	0	0	0	0	1
PHASE 3 SUBSTATIONS - SQUAW VALLEY															
Complete Civil Construction	10.0	88	688	33	127	32	17	410	1	94,240	0	0	0	0	1
Complete Physical Construction	20.0	125	1,017	47	90	47	9	603	2	141,399	0	0	0	0	1
Complete Electrical Construction	20.0	116	933	40	64	40	6	763	1	135,139	0	0	0	0	1
Complete System Protection Construction	20.0	40	292	16	60	16	6	247	0	43,285	0	0	0	0	1
Complete Offsite Improvements and Mitigations	20.0	102	779	35	60	35	6	426	1	112,978	0	0	0	0	1
PHASE 3 SUBSTATIONS - KINGS BEACH															
Complete Civil Construction	20.0	171	1,326	64	234	63	31	802	2	178,843	0	0	0	0	1
Complete Physical Construction	20.0	123	987	46	78	46	8	593	1	135,617	0	0	0	0	1
Complete Electrical Construction	20.0	115	913	39	56	39	6	757	1	131,285	0	0	0	0	1
Complete System Protection Construction	20.0	38	272	15	52	15	5	240	0	39,430	0	0	0	0	1
Complete Offsite Improvements and Mitigations	20.0	100	760	35	52	35	5	419	1	109,124	0	0	0	0	1
PHASE 1 TRANSMISSION - 650 LINE UPGRADE															
Complete Environmental Construction (USFS Out	20.0	283	2,367	100	335	99	41	1,202	3	314,494	1	0	0	0	0
Complete Road Construction (USFS Out of Basin c	20.0	283	2,367	100	335	99	41	1,202	3	314,494	1	0	0	0	0
Complete Logging Operations (USFS Out of Basin	20.0	588	5,389	208	185	206	19	2,359	8	814,765	1	0	0	0	0
Complete Environmental Construction (Refresh a	20.0	283	2,367	100	335	99	41	1,202	3	314,494	0	1	0	0	0
Complete Road Construction (Remaining)	20.0	283	2,367	100	335	99	41	1,202	3	314,494	0	1	0	0	0
Complete Logging Operations (Remaining)	20.0	588	5,389	208	185	206	19	2,359	8	814,765	0	1	0	0	0
Complete Foundation Construction	30.0	227	1,935	72	312	71	31	1,060	3	298,263	0	1	0	0	0
Complete Line Construction	90.0	2,106	17,397	755	2,221	753	275	11,361	24	2,359,094	0	1	0	0	0
Complete Removals	30.0	349	3,013	123	349	122	35	1,580	5	427,495	0	1	0	0	0
PHASE 2 TRANSMISSION - 650 LINE UPGRADE															
Complete Environmental Construction	10.0	144	1,203	50	176	50	22	608	2	161,102	0	0	1	0	0
Complete Logging Operations	5.0	156	1,484	57	64	56	7	629	2	231,276	0	0	1	0	0
Complete Road Construction	5.0	74	624	26	97	26	12	312	1	84,887	0	0	1	0	0
Complete Foundation Construction	10.0	78	674	25	116	25	12	363	1	105,203	0	0	1	0	0
Complete Line Construction	20.0	469	3,876	168	498	168	61	2,528	5	526,170	0	0	1	0	0
Complete Removals	5.0	60	519	21	65	21	7	269	1	74,622	0	0	1	0	0
PHASE 3 - 625 LINE UPGRADE															
Complete Environmental Construction	32.0	722	6,034	257	839	256	109	2,983	8	775,447	0	0	0	1	0
Complete Road Construction	48.0	1,080	9,027	384	1,249	383	162	4,467	12	1,158,545	0	0	0	1	0
Complete Logging Operations	46.4	1,368	12,576	485	439	480	46	5,495	18	1,905,312	0	0	0	1	0
Complete Foundation Construction	32.0	241	2,048	76	326	76	33	1,125	3	315,064	0	0	0	0	1
Complete Line Construction	64.0	1,575	13,068	560	1,605	558	198	8,297	18	1,775,243	0	0	0	0	1
Complete Removals	28.5	337	2,918	118	355	118	36	1,520	5	417,106	0	0	0	0	1
mass conversion rate		2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,000 lb/ton	2,205 lb/MT					

Source of conversion rates: onlineconversion.com/weight_common.htm

Summary of Total Construction Emissions by Phase

	ROG	NOx	PM10 Exh	PM10 Dust	Total PM10	PM2.5 Exh	PM2.5 Dust	Total PM2.5	CO	SOx	CO2e
TOTAL EMISSIONS	**7.5**	**62.6**	**2.7**	**6.7**	**9.4**	**2.6**	**0.8**	**3.4**	**35.6**	**0.09**	**7,956**
(units)	tons	tons	tons	tons	tons	tons	tons	tons	tons	tons	MT
Annual Emissions											
2013	**0.6**	**5.1**	**0.2**	**0.4**	**0.6**	**0.2**	**0.1**	**0.3**	**2.4**	**0.01**	**655**
2014	**2.1**	**17.5**	**0.7**	**2.0**	**2.7**	**0.7**	**0.2**	**1.0**	**10.3**	**0.03**	**2,216**
2016	**1.4**	**11.1**	**0.5**	**1.2**	**1.7**	**0.5**	**0.1**	**0.6**	**6.9**	**0.02**	**1,414**
2018	**1.6**	**13.8**	**0.6**	**1.3**	**1.8**	**0.6**	**0.2**	**0.7**	**6.5**	**0.02**	**1,741**
2019	**1.9**	**15.2**	**0.7**	**1.9**	**2.5**	**0.7**	**0.2**	**0.9**	**9.5**	**0.02**	**1,930**
(units)	tons/year	tons/year	tons/year	tons/year	tons/year	tons/year	tons/year	tons/year	tons/year	tons/year	MT/year

Daily ROG Emissions by Schedule
Proposed Project/Action

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES	0.0															
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	21.0	Fri 8/16/13	Thu 9/12/13	1	0	0	14	14	14	14	14					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			14	14	14	14	14			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					29	29	29	29	29	
Complete Environmental Construction (Refresh and Remaining)	21.0	Thu 5/1/14	Wed 5/28/14	1	1	1										14
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	31.5	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	94.5	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.5	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.3	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.3	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.5	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	21.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.3	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	32.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	48.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	46.4	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	32.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	64.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	28.5	Wed 8/7/19	Tue 9/17/19	1	1	0										
						Total Emiss in PCAPCD juris.	14	14	28	28	58	44	44	29	29	14
						Exceedance of PCAPCD's TOS of 82 lb/day?	—	—	—	—	—	—	—	—	—	—
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	14
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	—
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	14
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—	—	—

Daily ROG Emissions by Schedule
Proposed Project/Action

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	8																					
Complete Physical Construction				6	6	6	6															
Complete Electrical Construction								6	6	6	6											
Complete System Protection Construction												2	2	2	2							
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	14	14	14	14																		
Complete Road Construction (Remaining)		14	14	14	14	14																
Complete Logging Operations (Remaining)				29	29	29	29	29														
Complete Foundation Construction		8	8	8	8	8	8	8														
Complete Line Construction						23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
Complete Removals																		12	12	12	12	12
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	23	36	36	71	57	81	66	66	29	29	29	25	25	25	25	28	28	40	40	35	35	35
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	14	36	36	65	51	75	60	60	23	23	23	23	23	23	23	23	23	35	35	35	35	35
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	14	22	22	22	8	31	31	31	23	23	23	23	23	23	23	23	23	35	35	35	35	35
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily ROG Emissions by Schedule
Proposed Project/Action

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			9																			
Complete Physical Construction				6	6	6	6															
Complete Electrical Construction								6	6	6	6											
Complete System Protection Construction												2	2	2	2							
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			8																			
Complete Physical Construction				6	6	6	6															
Complete Electrical Construction								6	6	6	6											
Complete System Protection Construction												2	2	2	2							
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			9																			
Complete Physical Construction				6	6	6	6															
Complete Electrical Construction								6	6	6	6											
Complete System Protection Construction												2	2	2	2							
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												9	9	9	9							
Complete Physical Construction								6	6	6	6											
Complete Electrical Construction					6	6	6															
Complete System Protection Construction			2	2																		
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	23	23																				
Complete Removals	12	12																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			14	14	14																	
Complete Logging Operations					31	31																
Complete Road Construction						15	15															
Complete Foundation Construction							8	8	8													
Complete Line Construction										23	23	23	23									
Complete Removals													12									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				23	23	23
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	35	35	34	29	64	64	41	25	25	41	41	36	48	12	12	15	15	15	15	23	23	23
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	35	35	25	22	58	58	35	20	20	35	35	34	46	11	11	10	10	10	10	23	23	23
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	35	35	9	6	6	6	6	6	6	6	6	2	2	2	2	5	5	5	5	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily ROG Emissions by Schedule
Proposed Project/Action

		Jun					Jul				Aug					Sep				2019 May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				9	9	9
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				9	9	
Complete Physical Construction																						6
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	23	23	23	23	23	23																
Complete Road Construction		23	23	23	23	23	23	23	23	23	23	23	23	23								
Complete Logging Operations								29	29	29	29	29	29	29	29	29	29	29	29			
Complete Foundation Construction																				8	8	8
Complete Line Construction																						
Complete Removals																						
	23	45	45	45	45	45	23	52	52	52	52	52	52	52	29	29	29	29	29	25	25	23
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	23	45	45	45	45	45	23	52	52	52	52	52	52	52	29	29	29	29	29	16	16	16
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily ROG Emissions by Schedule
Proposed Project/Action

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	9																				
Complete Physical Construction	6	6	6	6																	
Complete Electrical Construction					6	6	6	6													
Complete System Protection Construction									2	2	2	2									
Complete Offsite Improvements and Mitigations													5	5	5	5					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	6	6	6																		
Complete Electrical Construction				6	6	6	6														
Complete System Protection Construction								2	2	2	2										
Complete Offsite Improvements and Mitigations												5	5	5	5						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		9	9	9	9																
Complete Physical Construction						6	6	6	6												
Complete Electrical Construction										6	6	6	6								
Complete System Protection Construction														2	2	2	2				
Complete Offsite Improvements and Mitigations																		5	5	5	5
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	8	8	8	8	8	8															
Complete Line Construction		25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25			
Complete Removals												12	12	12	12	12	12	12			
	29	53	53	53	52	50	42	39	35	34	34	49	52	49	49	43	38	41	5	5	5
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	23	47	47	47	47	44	37	37	33	32	32	44	47	43	43	43	38	41	5	5	5
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily NOx Emissions by Schedule
Proposed Project/Action

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES	0.0															
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	21.0	Fri 8/16/13	Thu 9/12/13	1	0	0	118	118	118	118	118					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			118	118	118	118	118			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					269	269	269	269	269	
Complete Environmental Construction (Refresh and Remaining)	21.0	Thu 5/1/14	Wed 5/28/14	1	1	1										118
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	31.5	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	94.5	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.5	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.3	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.3	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.5	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	21.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.3	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	32.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	48.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	46.4	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	32.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	64.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	28.5	Wed 8/7/19	Tue 9/17/19	1	1	0										
	WITHOUT MITIGATION					Total Emiss in PCAPCD juris.	118	118	237	237	506	388	388	269	269	118
						Exceedance of PCAPCD's TOS of 82 lb/day?	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
						Number of weeks PCAPCD's TOS is exceeded	94									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	118
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	yes
						Number of weeks PCAPCD's TOS is exceeded in LTAB	79									
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	118
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks NSAQMD's TOS is exceeded	22									
	WITH MITIGATION MEASURE 4.13-1b															
						Reduction in NOx from Off-Road Equip with implementation of MM 4.13-1b	20%									
						Total Emiss in PCAPCD juris.	95	95	189	189	405	310	310	216	216	95
						Exceedance of PCAPCD's TOS of 82 lb/day?	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
						Number of weeks PCAPCD's TOS is exceeded	92									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	95
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	yes
						Number of weeks PCAPCD's TOS is exceeded in LTAB	79									
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	95
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks NSAQMD's TOS is exceeded	22									
						Max. daily emiss. w/MM 4.13-1a	235									

Daily NOx Emissions by Schedule
Proposed Project/Action

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	65																					
Complete Physical Construction				13	13	13	13															
Complete Electrical Construction								45	45	45	45											
Complete System Protection Construction												13	13	13	13							
Complete Offsite Improvements and Mitigations																37	37	37	37			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	118	118	118	118																		
Complete Road Construction (Remaining)		118	118	118	118	118																
Complete Logging Operations (Remaining)				269	269	269	269	269														
Complete Foundation Construction		64	64	64	64	64	64	64														
Complete Line Construction						193	193	193	193	193	193	193	193	193	193	193	193	193	193	193	193	193
Complete Removals																		100	100	100	100	100
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	184	301	301	584	465	659	540	572	238	238	238	206	206	206	206	231	231	331	331	294	294	294
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	118	301	301	571	452	646	527	527	193	193	193	193	193	193	193	193	193	294	294	294	294	294
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	118	183	183	183	64	258	258	258	193	193	193	193	193	193	193	193	193	294	294	294	294	294
	—	yes	yes	yes	—	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	147	241	241	467	372	527	432	458	190	190	190	165	165	165	165	185	185	265	265	235	235	235
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	95	241	241	456	362	516	422	422	155	155	155	155	155	155	155	155	155	235	235	235	235	235
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	95	146	146	146	52	206	206	206	155	155	155	155	155	155	155	155	155	235	235	235	235	235
	—	yes	yes	yes	—	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes

Daily NOx Emissions by Schedule
Proposed Project/Action

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			69																			
Complete Physical Construction				50	50	50	50															
Complete Electrical Construction								46	46	46	46											
Complete System Protection Construction												14	14	14	14							
Complete Offsite Improvements and Mitigations																38	38	38	38			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			65																			
Complete Physical Construction				48	48	48	48															
Complete Electrical Construction								45	45	45	45											
Complete System Protection Construction												13	13	13	13							
Complete Offsite Improvements and Mitigations																37	37	37	37			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			68																			
Complete Physical Construction				50	50	50	50															
Complete Electrical Construction								46	46	46	46											
Complete System Protection Construction												14	14	14	14							
Complete Offsite Improvements and Mitigations																38	38	38	38			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												67	67	67	67							
Complete Physical Construction								50	50	50	50											
Complete Electrical Construction					46	46	46															
Complete System Protection Construction			14	14																		
Complete Offsite Improvements and Mitigations																38	38	38	38			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	193	193																				
Complete Removals	100	100																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			120	120	120																	
Complete Logging Operations					297	297																
Complete Road Construction						125	125															
Complete Foundation Construction							67	67	67													
Complete Line Construction										194	194	194	194									
Complete Removals													104									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				189	189	189
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	294	294	268	233	561	566	337	208	208	335	335	288	392	94	94	114	114	114	114	189	189	189
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	294	294	203	184	513	517	288	163	163	290	290	275	379	81	81	77	77	77	77	189	189	189
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—	—	—	—	yes	yes	yes
	294	294	68	50	50	50	50	46	46	46	46	14	14	14	14	38	38	38	38	0	0	0
	yes	yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	235	235	215	186	449	453	269	167	167	268	268	230	313	75	75	92	92	92	92	151	151	151
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—	—	yes	yes	yes	yes	yes	yes	yes
	235	235	163	147	410	414	231	131	131	232	232	220	303	65	65	62	62	62	62	151	151	151
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—	—	—	—	yes	yes	yes
	235	235	55	40	40	40	40	37	37	37	37	11	11	11	11	31	31	31	31	0	0	0
	yes	yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily NOx Emissions by Schedule
Proposed Project/Action

																				2019		
		Jun					Jul				Aug					Sep				May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				69	69	69
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				69	69	
Complete Physical Construction																						51
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	189	189	189	189	189	189																
Complete Road Construction		188	188	188	188	188	188	188	188	188	188	188	188	188								
Complete Logging Operations								271	271	271	271	271	271	271	271	271	271	271	271			
Complete Foundation Construction																				64	64	64
Complete Line Construction																						
Complete Removals																						
	189	377	377	377	377	377	188	459	459	459	459	459	459	459	271	271	271	271	271	202	202	184
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	189	377	377	377	377	377	188	459	459	459	459	459	459	459	271	271	271	271	271	133	133	133
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	151	301	301	301	301	301	150	367	367	367	367	367	367	367	217	217	217	217	217	161	161	147
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	151	301	301	301	301	301	150	367	367	367	367	367	367	367	217	217	217	217	217	106	106	106
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily NOx Emissions by Schedule
Proposed Project/Action

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	69																				
Complete Physical Construction	51	51	51	51																	
Complete Electrical Construction					47	47	47	47													
Complete System Protection Construction									15	15	15	15									
Complete Offsite Improvements and Mitigations													39	39	39	39					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	51	51	51																		
Complete Electrical Construction				47	47	47	47														
Complete System Protection Construction								15	15	15	15										
Complete Offsite Improvements and Mitigations												39	39	39	39						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		66	66	66	66																
Complete Physical Construction						49	49	49	49												
Complete Electrical Construction										46	46	46	46								
Complete System Protection Construction														14	14	14	14				
Complete Offsite Improvements and Mitigations																		38	38	38	38
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	64	64	64	64	64	64															
Complete Line Construction		204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204			
Complete Removals												102	102	102	102	102	102	102			
	235	437	437	432	428	411	347	315	283	279	279	406	431	399	399	360	320	345	38	38	38
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—
	184	386	386	386	382	365	301	301	268	264	264	367	392	360	360	360	320	345	38	38	38
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	188	349	349	346	343	329	278	252	226	223	223	325	345	319	319	288	256	276	30	30	30
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—
	147	309	309	309	305	292	241	241	215	212	212	293	313	288	288	288	256	276	30	30	30
	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Emissions by Schedule (including PM10 Exhaust and PM10 dust) — Proposed Project/Action

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES	0.0															
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	21.0	Fri 8/16/13	Thu 9/12/13	1	0	0	22	22	22	22	22					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			22	22	22	22	22			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					20	20	20	20	20	
Complete Environmental Construction (Refresh and Remaining)	21.0	Thu 5/1/14	Wed 5/28/14	1	1	1										22
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	31.5	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	94.5	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.5	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.3	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.3	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.5	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	21.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.3	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	32.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	48.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	46.4	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	32.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	64.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	28.5	Wed 8/7/19	Tue 9/17/19	1	1	0										
	WITHOUT MITIGATION					Total Emiss in PCAPCD juris.	22	22	44	44	63	41	41	20	20	22
						Exceedance of PCAPCD's TOS of 82 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded	1									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	22
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded in LTAB	1									
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	22
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks NSAQMD's TOS is exceeded	0									
	WITH MITIGATION MEASURE 4.13-1a															
						Minimum proportion of PM10 Exhaust that is from Off-Road Equipment	77%	This value is shown on wksht Prop Emiss by Act & Src. It is conse								
						Reduction in PM10 Exh from Off-Road Equip with implementation of MM 4.13-1a	45%									
						Net Reduction in PM10 Exh	34%	This value is necessary because the 45% reduction in PM10 Exh								
						Total Emiss in PCAPCD juris.	20	20	40	40	56	36	36	16	16	20
						Exceedance of PCAPCD's TOS of 82 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded	1	Thus, implementation of MM 4.13-1a would reduce Maximum D								
						Peak Emiss in PCAPCD Juris	82.2									
						2nd Peak Emiss in PCAPCD Juris	72.1									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	20
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded in LTAB	0	Thus, implementation of MM 4.13-1a would reduce Maximum D								

Daily PM10 Emissions by Schedule (including PM

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	14																					
Complete Physical Construction				4	4	4	4															
Complete Electrical Construction								4	4	4	4											
Complete System Protection Construction												3	3	3	3							
Complete Offsite Improvements and Mitigations																4	4	4	4			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	22	22	22	22																		
Complete Road Construction (Remaining)		22	22	22	22	22																
Complete Logging Operations (Remaining)				20	20	20	20	20														
Complete Foundation Construction		13	13	13	13	13	13	13														
Complete Line Construction						33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
Complete Removals																		16	16	16	16	16
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	36	56	56	80	58	91	70	70	37	37	37	36	36	36	36	37	37	53	53	49	49	49
	—	—	—	—	—	yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	22	56	56	76	54	87	66	66	33	33	33	33	33	33	33	33	33	49	49	49	49	49
	—	—	—	—	—	yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	22	35	35	35	13	46	46	46	33	33	33	33	33	33	33	33	33	49	49	49	49	49
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

rvative to use this value because it is the lowest proportion of PM10 Exhaust that comes from Off-Road Equipment for any individual construction activity (e

required by MM 4.13-1a would only apply to the portion of PM10 Exh from off-road construction equipment.

	33	52	52	72	52	82	62	62	34	34	34	33	33	33	33	34	34	48	48	44	44	44
	—	—	—	—	—	yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

aily Levels of PM10 (total) to less than PCAPCD's threshold of 82 lb/day.

	20	52	52	68	48	78	58	58	30	30	30	30	30	30	30	30	30	44	44	44	44	44
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

aily Levels of PM10 (total) in the LTAB to less than PCAPCD's threshold of 82 lb/day.

Daily PM10 Emissions by Schedule (including PM

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			16																			
Complete Physical Construction				7	7	7	7															
Complete Electrical Construction								5	5	5	5											
Complete System Protection Construction												4	4	4	4							
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			14																			
Complete Physical Construction				6	6	6	6															
Complete Electrical Construction								4	4	4	4											
Complete System Protection Construction												3	3	3	3							
Complete Offsite Improvements and Mitigations																4	4	4	4			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			16																			
Complete Physical Construction				6	6	6	6															
Complete Electrical Construction								5	5	5	5											
Complete System Protection Construction												3	3	3	3							
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												15	15	15	15							
Complete Physical Construction								6	6	6	6											
Complete Electrical Construction					5	5	5															
Complete System Protection Construction			3	3																		
Complete Offsite Improvements and Mitigations																5	5	5	5			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	33	33																				
Complete Removals	16	16																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			23	23	23																	
Complete Logging Operations					24	24																
Complete Road Construction						25	25															
Complete Foundation Construction							14	14	14													
Complete Line Construction										33	33	33	33									
Complete Removals													17									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				34	34	34
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	49	49	57	38	64	66	56	30	30	49	49	55	72	22	22	13	13	13	13	34	34	34
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	49	49	42	33	58	60	50	26	26	45	45	52	69	19	19	9	9	9	9	34	34	34
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	49	49	16	6	6	6	6	5	5	5	5	3	3	3	3	5	5	5	5	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

e.g., road construction, line construction, line removal). Moreover, it is based on the proportion of PM10 exhaust from off-road equipment during "Complete

44	44	52	35	56	58	51	27	27	44	44	51	66	20	20	11	11	11	11	31	31	31
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
44	44	39	30	51	53	46	23	23	40	40	48	64	17	17	8	8	8	8	31	31	31
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Emissions by Schedule (including PM

																				2019		
		Jun					Jul				Aug					Sep				May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				16	16	16
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				16	16	
Complete Physical Construction																						7
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	34	34	34	34	34	34																
Complete Road Construction		34	34	34	34	34	34	34	34	34	34	34	34	34								
Complete Logging Operations								20	20	20	20	20	20	20	20	20	20	20	20			
Complete Foundation Construction																				13	13	13
Complete Line Construction																						
Complete Removals																						
	34	68	68	68	68	68	34	54	54	54	54	54	54	54	20	20	20	20	20	45	45	35
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	34	68	68	68	68	68	34	54	54	54	54	54	54	54	20	20	20	20	20	29	29	29
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removals" activity (i.e., line removal), as shown on wksht Prop Emiss by Act & Src; however this activity, is not one of the weeks when PM10 emissions cou

	31	63	63	63	63	63	31	48	48	48	48	48	48	48	16	16	16	16	16	41	41	33
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	31	63	63	63	63	63	31	48	48	48	48	48	48	48	16	16	16	16	16	27	27	27
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Emissions by Schedule (including PM

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	16																				
Complete Physical Construction	7	7	7	7																	
Complete Electrical Construction					5	5	5	5													
Complete System Protection Construction									4	4	4	4									
Complete Offsite Improvements and Mitigations													5	5	5	5					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	7	7	7																		
Complete Electrical Construction				5	5	5	5														
Complete System Protection Construction								4	4	4	4										
Complete Offsite Improvements and Mitigations												5	5	5	5						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		15	15	15	15																
Complete Physical Construction						6	6	6	6												
Complete Electrical Construction										5	5	5	5								
Complete System Protection Construction														3	3	3	3				
Complete Offsite Improvements and Mitigations																		4	4	4	4
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	13	13	13	13	13	13															
Complete Line Construction		34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34				
Complete Removals												17	17	17	17	17	17	17			
	43	75	75	74	72	63	51	49	48	46	46	64	65	64	64	59	54	55	4	4	4
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	36	68	68	68	67	58	45	45	44	42	42	59	60	59	59	59	54	55	4	4	4
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

ld peak to their highest, worst-case levels.

	39	69	69	67	66	57	45	45	43	42	42	58	59	58	58	53	49	50	4	4	4
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	33	63	63	63	61	53	41	41	40	38	38	54	54	53	53	53	49	50	4	4	4
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Exhaust Emissions by Schedule

Proposed Project/Action

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES																
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	20.0	Fri 8/16/13	Thu 9/12/13	1	0	0	5	5	5	5	5					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			5	5	5	5	5			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					10	10	10	10	10	
Complete Environmental Construction (Refresh and Remaining)	20.0	Thu 5/1/14	Wed 5/28/14	1	1	1										5
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	30.0	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	90.0	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.0	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.0	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.0	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.0	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	20.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.0	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	40.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	60.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	58.0	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	40.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	80.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	30.0	Wed 8/7/19	Tue 9/17/19	1	1	0										
						Total Emiss in PCAPCD juris.	5	5	10	10	20	15	15	10	10	5
						Exceedance of PCAPCD's TOS of 82 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded	0									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	5
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded in LTAB	0									
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	5
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks NSAQMD's TOS is exceeded	0									

Daily PM10 Exhaust Emissions by Schedule

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	3																					
Complete Physical Construction				1	1	1	1															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	5	5	5	5																		
Complete Road Construction (Remaining)		5	5	5	5	5																
Complete Logging Operations (Remaining)				10	10	10	10	10														
Complete Foundation Construction		2	2	2	2	2	2	2														
Complete Line Construction						8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Complete Removals																		4	4	4	4	4
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	8	12	12	23	19	27	22	23	10	10	10	9	9	9	9	10	10	14	14	12	12	12
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	5	12	12	23	18	26	21	21	8	8	8	8	8	8	8	8	8	12	12	12	12	12
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	5	7	7	7	2	11	11	11	8	8	8	8	8	8	8	8	8	12	12	12	12	12
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Exhaust Emissions by Schedule

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			3																			
Complete Physical Construction				2	2	2	2															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			3																			
Complete Physical Construction				2	2	2	2															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			3																			
Complete Physical Construction				2	2	2	2															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												3	3	3	3							
Complete Physical Construction								2	2	2	2											
Complete Electrical Construction					2	2	2															
Complete System Protection Construction			1	1																		
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	8	8																				
Complete Removals	4	4																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			5	5	5																	
Complete Logging Operations					11	11																
Complete Road Construction						5	5															
Complete Foundation Construction							2	2	2													
Complete Line Construction										8	8	8	8									
Complete Removals													4									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				8	8	8
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	12	12	12	10	23	23	14	9	9	15	15	13	17	5	5	5	5	5	5	8	8	8
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	12	12	9	8	21	21	12	7	7	13	13	12	17	4	4	4	4	4	4	8	8	8
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	12	12	3	2	2	2	2	2	2	2	2	1	1	1	1	2	2	2	2	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Exhaust Emissions by Schedule

																				2019		
		Jun					Jul				Aug					Sep				May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				3	3	3
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				3	3	
Complete Physical Construction																						2
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	8	8	8	8	8	8																
Complete Road Construction		8	8	8	8	8	8	8	8	8	8	8	8	8								
Complete Logging Operations								10	10	10	10	10	10	10	10	10	10	10	10			
Complete Foundation Construction																				2	2	2
Complete Line Construction																						
Complete Removals																						
	8	16	16	16	16	16	8	18	18	18	18	18	18	18	10	10	10	10	10	9	9	8
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	8	16	16	16	16	16	8	18	18	18	18	18	18	18	10	10	10	10	10	6	6	6
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Exhaust Emissions by Schedule

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	3																				
Complete Physical Construction	2	2	2	2																	
Complete Electrical Construction					2	2	2	2													
Complete System Protection Construction									1	1	1	1									
Complete Offsite Improvements and Mitigations													2	2	2	2					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	2	2	2																		
Complete Electrical Construction				2	2	2	2														
Complete System Protection Construction								1	1	1	1										
Complete Offsite Improvements and Mitigations												2	2	2	2						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		3	3	3	3																
Complete Physical Construction						2	2	2	2												
Complete Electrical Construction										2	2	2	2								
Complete System Protection Construction														1	1	1	1				
Complete Offsite Improvements and Mitigations																		2	2	2	2
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	2	2	2	2	2	2															
Complete Line Construction		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9				
Complete Removals												4	4	4	4	4	4	4			
	10	19	19	19	18	17	15	14	13	12	12	17	18	17	17	15	14	15	2	2	2
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	8	17	17	17	16	15	13	13	12	12	12	16	17	15	15	15	14	15	2	2	2
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Dust Emissions by Schedule

Proposed Project/Action

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES																
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	20.0	Fri 8/16/13	Thu 9/12/13	1	0	0	17	17	17	17	17					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			17	17	17	17	17			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					9	9	9	9	9	
Complete Environmental Construction (Refresh and Remaining)	20.0	Thu 5/1/14	Wed 5/28/14	1	1	1										17
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	30.0	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	90.0	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.0	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.0	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.0	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.0	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	20.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.0	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	40.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	60.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	58.0	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	40.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	80.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	30.0	Wed 8/7/19	Tue 9/17/19	1	1	0										
						Total Emiss in PCAPCD juris.	17	17	34	34	43	26	26	9	9	17
						Exceedance of PCAPCD's TOS of 82 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded	0									
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	17
						Exceedance of PCAPCD's TOS of 82 lb/day in LTAB?	—	—	—	—	—	—	—	—	—	—
						Number of weeks PCAPCD's TOS is exceeded in LTAB	0									
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	17
						Exceedance of NSAQMD's TOS of 136 lb/day?	—	—	—	—	—	—	—	—	—	—
						Number of weeks NSAQMD's TOS is exceeded	0									

Daily PM10 Dust Emissions by Schedule

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	11																					
Complete Physical Construction				3	3	3	3															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												2	2	2	2							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	17	17	17	17																		
Complete Road Construction (Remaining)		17	17	17	17	17																
Complete Logging Operations (Remaining)				9	9	9	9	9														
Complete Foundation Construction		10	10	10	10	10	10	10														
Complete Line Construction						25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Complete Removals																		12	12	12	12	12
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	28	44	44	57	40	65	48	47	27	27	27	27	27	27	27	27	27	39	39	36	36	36
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	17	44	44	53	36	61	44	44	25	25	25	25	25	25	25	25	25	36	36	36	36	36
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	17	27	27	27	10	35	35	35	25	25	25	25	25	25	25	25	25	36	36	36	36	36
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Dust Emissions by Schedule

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			13																			
Complete Physical Construction				4	4	4	4															
Complete Electrical Construction								3	3	3	3											
Complete System Protection Construction												3	3	3	3							
Complete Offsite Improvements and Mitigations																3	3	3	3			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			11																			
Complete Physical Construction				3	3	3	3															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												2	2	2	2							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			13																			
Complete Physical Construction				4	4	4	4															
Complete Electrical Construction								3	3	3	3											
Complete System Protection Construction												3	3	3	3							
Complete Offsite Improvements and Mitigations																3	3	3	3			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												12	12	12	12							
Complete Physical Construction								4	4	4	4											
Complete Electrical Construction					3	3	3															
Complete System Protection Construction			3	3																		
Complete Offsite Improvements and Mitigations																3	3	3	3			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	25	25																				
Complete Removals	12	12																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			18	18	18																	
Complete Logging Operations					13	13																
Complete Road Construction						19	19															
Complete Foundation Construction							12	12	12													
Complete Line Construction										25	25	25	25									
Complete Removals													13									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				26	26	26
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	36	36	44	28	41	43	42	21	21	34	34	42	55	17	17	8	8	8	8	26	26	26
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	36	36	33	25	38	39	38	19	19	32	32	40	53	15	15	6	6	6	6	26	26	26
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	36	36	13	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Dust Emissions by Schedule

																				2019		
		Jun					Jul				Aug					Sep				May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				13	13	13
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				13	13	
Complete Physical Construction																						5
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	26	26	26	26	26	26																
Complete Road Construction		26	26	26	26	26	26	26	26	26	26	26	26	26								
Complete Logging Operations								9	9	9	9	9	9	9	9	9	9	9	9			
Complete Foundation Construction																				10	10	10
Complete Line Construction																						
Complete Removals																						
	26	52	52	52	52	52	26	35	35	35	35	35	35	35	9	9	9	9	9	36	36	27
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	26	52	52	52	52	52	26	35	35	35	35	35	35	35	9	9	9	9	9	23	23	23
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM10 Dust Emissions by Schedule

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	13																				
Complete Physical Construction	5	5	5	5																	
Complete Electrical Construction					3	3	3	3													
Complete System Protection Construction									3	3	3	3									
Complete Offsite Improvements and Mitigations													3	3	3	3					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	5	5	5																		
Complete Electrical Construction				3	3	3	3														
Complete System Protection Construction								3	3	3	3										
Complete Offsite Improvements and Mitigations												3	3	3	3						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		12	12	12	12																
Complete Physical Construction						4	4	4	4												
Complete Electrical Construction										3	3	3	3								
Complete System Protection Construction														3	3	3	3				
Complete Offsite Improvements and Mitigations																		3	3	3	3
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	10	10	10	10	10	10															
Complete Line Construction		25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25			
Complete Removals												12	12	12	12	12	12	12			
	32	56	56	55	54	46	36	35	35	34	34	46	47	46	46	43	40	40	3	3	3
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	28	52	52	52	50	43	32	32	32	31	31	43	44	43	43	43	40	40	3	3	3
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily PM2.5 Emissions by Schedule (including PM2.5 Exhaust and PM2.5 dust) Proposed Project/Action

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES	0.0															
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	21.0	Fri 8/16/13	Thu 9/12/13	1	0	0	7	7	7	7	7					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			7	7	7	7	7			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					11	11	11	11	11	
Complete Environmental Construction (Refresh and Remaining)	21.0	Thu 5/1/14	Wed 5/28/14	1	1	1										7
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	31.5	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	94.5	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.5	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.3	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.3	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.5	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	21.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.3	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	32.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	48.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	46.4	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	32.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	64.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	28.5	Wed 8/7/19	Tue 9/17/19	1	1	0										
						Total Emiss in PCAPCD juris.	7	7	14	14	25	18	18	11	11	7
						Total Emiss in LTAB	0	0	0	0	0	0	0	0	0	7
						Total Emiss in NSAQMD juris.	0	0	0	0	0	0	0	0	0	7

Daily PM2.5 Emissions by Schedule (including P

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	5																					
Complete Physical Construction				1	1	1	1															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	7	7	7	7																		
Complete Road Construction (Remaining)		7	7	7	7	7																
Complete Logging Operations (Remaining)				11	11	11	11	11														
Complete Foundation Construction		3	3	3	3	3	3	3														
Complete Line Construction						11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Complete Removals																		5	5	5	5	5
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	12	17	17	30	23	34	27	28	14	14	14	12	12	12	12	13	13	19	19	17	17	17
	7	17	17	29	22	33	26	26	11	11	11	11	11	11	11	11	11	17	17	17	17	17
	7	10	10	10	3	15	15	15	11	11	11	11	11	11	11	11	11	17	17	17	17	17

Daily PM2.5 Emissions by Schedule (including P

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			5																			
Complete Physical Construction				3	3	3	3															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			5																			
Complete Physical Construction				3	3	3	3															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			5																			
Complete Physical Construction				3	3	3	3															
Complete Electrical Construction								2	2	2	2											
Complete System Protection Construction												1	1	1	1							
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												5	5	5	5							
Complete Physical Construction								3	3	3	3											
Complete Electrical Construction					2	2	2															
Complete System Protection Construction			1	1																		
Complete Offsite Improvements and Mitigations																2	2	2	2			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	11	11																				
Complete Removals	5	5																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			7	7	7																	
Complete Logging Operations					13	13																
Complete Road Construction						7	7															
Complete Foundation Construction							4	4	4													
Complete Line Construction										11	11	11	11									
Complete Removals													5									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				11	11	11
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	17	17	18	14	27	28	19	11	11	19	19	18	24	7	7	6	6	6	6	11	11	11
	17	17	13	11	25	25	16	9	9	16	16	17	23	6	6	4	4	4	4	11	11	11
	17	17	5	3	3	3	3	2	2	2	2	1	1	1	1	2	2	2	2	0	0	0

Daily PM2.5 Emissions by Schedule (including P

		Jun					Jul				Aug					Sep				2019 May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				5	5	5
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				5	5	
Complete Physical Construction																						3
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	11	11	11	11	11	11																
Complete Road Construction		11	11	11	11	11	11	11	11	11	11	11	11	11								
Complete Logging Operations								11	11	11	11	11	11	11	11	11	11	11	11			
Complete Foundation Construction																				3	3	3
Complete Line Construction																						
Complete Removals																						
	11	23	23	23	23	23	11	23	23	23	23	23	23	23	11	11	11	11	11	13	13	11
	11	23	23	23	23	23	11	23	23	23	23	23	23	23	11	11	11	11	11	8	8	8
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daily PM2.5 Emissions by Schedule (including P

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	5																				
Complete Physical Construction	3	3	3	3																	
Complete Electrical Construction					2	2	2	2													
Complete System Protection Construction									1	1	1	1									
Complete Offsite Improvements and Mitigations													2	2	2	2					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	3	3	3																		
Complete Electrical Construction				2	2	2	2														
Complete System Protection Construction								1	1	1	1										
Complete Offsite Improvements and Mitigations												2	2	2	2						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		5	5	5	5																
Complete Physical Construction						3	3	3	3												
Complete Electrical Construction										2	2	2	2								
Complete System Protection Construction														1	1	1	1				
Complete Offsite Improvements and Mitigations																		2	2	2	2
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	3	3	3	3	3	3															
Complete Line Construction		12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12			
Complete Removals												5	5	5	5	5	5	5			
	14	26	26	25	25	23	19	18	17	16	16	23	24	22	22	20	18	19	2	2	2
	11	23	23	23	22	20	17	17	16	15	15	21	22	20	20	20	18	19	2	2	2
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daily CO Emissions by Schedule
Proposed Project/Action

Phase Name	Duration (days)	Start	Finish	Applicable Jurisdictions PCAPCD	LTAB	NSAQMD	2013 Aug 8/16	8/23	8/30	Sep 9/6	9/13	9/20	9/27	Oct 10/4	10/11	2014 May 5/2
SUBSTATIONS																
PHASE 1 SUBSTATIONS - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/5/14	Fri 5/9/14	1	0	0										
Complete Physical Construction	20.0	Mon 5/26/14	Fri 6/20/14	1	0	0										
Complete Electrical Construction	20.0	Mon 6/23/14	Fri 7/18/14	1	0	0										
Complete System Protection Construction	20.0	Mon 7/21/14	Fri 8/15/14	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/18/14	Fri 9/12/14	1	0	0										
PHASE 2 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	1	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	1	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 2 SUBSTATION - NORTHSTAR																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	1	0	0										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	1	0	0										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	0	0										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	0	0										
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																
Complete Civil Construction	5.0	Mon 5/2/16	Fri 5/6/16	0	0	1										
Complete Physical Construction	20.0	Mon 5/9/16	Fri 6/3/16	0	0	1										
Complete Electrical Construction	20.0	Mon 6/6/16	Fri 7/1/16	0	0	1										
Complete System Protection Construction	20.0	Mon 7/4/16	Fri 7/29/16	0	0	1										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	0	0	1										
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																
Complete Civil Construction	20.0	Mon 7/4/16	Fri 7/29/16	1	1	0										
Complete Physical Construction	20.0	Mon 6/6/16	Fri 7/1/16	1	1	0										
Complete Electrical Construction	15.0	Mon 5/16/16	Fri 6/3/16	1	1	0										
Complete System Protection Construction	10.0	Mon 5/2/16	Fri 5/13/16	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/1/16	Fri 8/26/16	1	1	0										
PHASE 3 SUBSTATIONS - TAHOE CITY																
Complete Civil Construction	20.0	Mon 4/29/19	Fri 5/24/19	1	1	0										
Complete Physical Construction	20.0	Mon 5/20/19	Fri 6/14/19	1	1	0										
Complete Electrical Construction	20.0	Mon 6/17/19	Fri 7/12/19	1	1	0										
Complete System Protection Construction	20.0	Mon 7/15/19	Fri 8/9/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/12/19	Fri 9/6/19	1	1	0										
PHASE 3 SUBSTATIONS - SQUAW VALLEY																
Complete Civil Construction	10.0	Mon 4/29/19	Fri 5/10/19	1	0	0										
Complete Physical Construction	20.0	Mon 5/13/19	Fri 6/7/19	1	0	0										
Complete Electrical Construction	20.0	Mon 6/10/19	Fri 7/5/19	1	0	0										
Complete System Protection Construction	20.0	Mon 7/8/19	Fri 8/2/19	1	0	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 8/5/19	Fri 8/30/19	1	0	0										
PHASE 3 SUBSTATIONS - KINGS BEACH																
Complete Civil Construction	20.0	Mon 5/27/19	Fri 6/21/19	1	1	0										
Complete Physical Construction	20.0	Mon 6/24/19	Fri 7/19/19	1	1	0										
Complete Electrical Construction	20.0	Mon 7/22/19	Fri 8/16/19	1	1	0										
Complete System Protection Construction	20.0	Mon 8/19/19	Fri 9/13/19	1	1	0										
Complete Offsite Improvements and Mitigations	20.0	Mon 9/16/19	Fri 10/11/19	1	1	0										
TRANSMISSIION LINES																
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction (USFS Out of Basin only)	20.0	Fri 8/16/13	Thu 9/12/13	1	0	0	60	60	60	60	60					
Complete Road Construction (USFS Out of Basin only)	20.0	Fri 8/30/13	Thu 9/26/13	1	0	0			60	60	60	60	60			
Complete Logging Operations (USFS Out of Basin only)	20.0	Fri 9/13/13	Thu 10/10/13	1	0	0					118	118	118	118	118	
Complete Environmental Construction (Refresh and Remaining)	20.0	Thu 5/1/14	Wed 5/28/14	1	1	1										60
Complete Road Construction (Remaining)	20.0	Thu 5/15/14	Wed 6/11/14	1	1	0										
Complete Logging Operations (Remaining)	20.0	Thu 5/29/14	Wed 6/25/14	1	1	0										
Complete Foundation Construction	30.0	Thu 5/15/14	Wed 6/25/14	1	1	1										
Complete Line Construction	90.0	Thu 6/12/14	Wed 10/15/14	1	1	1										
Complete Removals	30.0	Thu 9/4/14	Wed 10/15/14	1	1	1										
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																
Complete Environmental Construction	10.0	Tue 5/3/16	Mon 5/16/16	1	1	0										
Complete Logging Operations	5.0	Tue 5/17/16	Mon 5/23/16	1	1	0										
Complete Road Construction	5.0	Tue 5/24/16	Mon 5/30/16	1	1	0										
Complete Foundation Construction	10.0	Tue 5/31/16	Mon 6/13/16	1	1	0										
Complete Line Construction	20.0	Mon 6/20/16	Fri 7/15/16	1	1	0										
Complete Removals	5.0	Mon 7/11/16	Fri 7/15/16	1	1	0										
PHASE 3 - 625 LINE UPGRADE																
Complete Environmental Construction	40.0	Wed 5/2/18	Tue 6/26/18	1	1	0										
Complete Road Construction	60.0	Wed 5/30/18	Tue 8/21/18	1	1	0										
Complete Logging Operations	58.0	Wed 7/11/18	Fri 9/28/18	1	1	0										
Complete Foundation Construction	40.0	Wed 5/1/19	Tue 6/25/19	1	1	0										
Complete Line Construction	80.0	Wed 5/29/19	Tue 9/17/19	1	1	0										
Complete Removals	30.0	Wed 8/7/19	Tue 9/17/19	1	1	0										
				Total Emiss in PCAPCD juris.			60	60	120	120	238	178	178	118	118	60
					Total Emiss in LTAB		0	0	0	0	0	0	0	0	0	60
				Total Emiss in NSAQMD juris.			0	0	0	0	0	0	0	0	0	60

Daily CO Emissions by Schedule
Proposed Project/Action

					Jun				Jul				Aug					Sep				Oct
Phase Name	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction	40																					
Complete Physical Construction				13	13	13	13															
Complete Electrical Construction								37	37	37	37											
Complete System Protection Construction												12	12	12	12							
Complete Offsite Improvements and Mitigations																21	21	21	21			
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)	60	60	60	60																		
Complete Road Construction (Remaining)		60	60	60	60	60																
Complete Logging Operations (Remaining)				118	118	118	118	118														
Complete Foundation Construction		35	35	35	35	35	35	35														
Complete Line Construction						126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126
Complete Removals																		53	53	53	53	53
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	100	156	156	287	227	353	293	317	164	164	164	138	138	138	138	147	147	200	200	179	179	179
	60	156	156	274	213	340	280	280	126	126	126	126	126	126	126	126	126	179	179	179	179	179
	60	95	95	95	35	162	162	162	126	126	126	126	126	126	126	126	126	179	179	179	179	179

Daily CO Emissions by Schedule
Proposed Project/Action

			2016																	2018		
			May				Jun				Jul					Aug				May		
Phase Name	10/10	10/17	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction			41																			
Complete Physical Construction				30	30	30	30															
Complete Electrical Construction								38	38	38	38											
Complete System Protection Construction												12	12	12	12							
Complete Offsite Improvements and Mitigations																21	21	21	21			
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction			40																			
Complete Physical Construction				29	29	29	29															
Complete Electrical Construction								37	37	37	37											
Complete System Protection Construction												12	12	12	12							
Complete Offsite Improvements and Mitigations																21	21	21	21			
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction			41																			
Complete Physical Construction				30	30	30	30															
Complete Electrical Construction								38	38	38	38											
Complete System Protection Construction												12	12	12	12							
Complete Offsite Improvements and Mitigations																21	21	21	21			
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction												40	40	40	40							
Complete Physical Construction								30	30	30	30											
Complete Electrical Construction					38	38	38															
Complete System Protection Construction			12	12																		
Complete Offsite Improvements and Mitigations																21	21	21	21			
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	126	126																				
Complete Removals	53	53																				
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction			61	61	61																	
Complete Logging Operations					126	126																
Complete Road Construction						62	62															
Complete Foundation Construction							36	36	36													
Complete Line Construction										126	126	126	126									
Complete Removals													54									
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																				93	93	93
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
	179	179	154	132	284	285	196	142	142	232	232	191	245	64	64	63	63	63	63	93	93	93
	179	179	114	103	254	256	166	104	104	194	194	179	233	52	52	42	42	42	42	93	93	93
	179	179	41	30	30	30	30	38	38	38	38	12	12	12	12	21	21	21	21	0	0	0

Daily CO Emissions by Schedule
Proposed Project/Action

																				2019		
		Jun					Jul				Aug					Sep				May		
Phase Name	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																				41	41	41
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																				41	41	
Complete Physical Construction																						30
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSIION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction	93	93	93	93	93	93																
Complete Road Construction		93	93	93	93	93	93	93	93	93	93	93	93	93								
Complete Logging Operations								118	118	118	118	118	118	118	118	118	118	118	118			
Complete Foundation Construction																				35	35	35
Complete Line Construction																						
Complete Removals																						
	93	186	186	186	186	186	93	211	211	211	211	211	211	211	118	118	118	118	118	117	117	106
	93	186	186	186	186	186	93	211	211	211	211	211	211	211	118	118	118	118	118	76	76	76
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daily CO Emissions by Schedule
Proposed Project/Action

			Jun				Jul				Aug					Sep				Oct	
Phase Name	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
SUBSTATIONS																					
PHASE 1 SUBSTATIONS - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATION - NORTHSTAR																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																					
Complete Civil Construction																					
Complete Physical Construction																					
Complete Electrical Construction																					
Complete System Protection Construction																					
Complete Offsite Improvements and Mitigations																					
PHASE 3 SUBSTATIONS - TAHOE CITY																					
Complete Civil Construction	41																				
Complete Physical Construction	30	30	30	30																	
Complete Electrical Construction					38	38	38	38													
Complete System Protection Construction									12	12	12	12									
Complete Offsite Improvements and Mitigations													21	21	21	21					
PHASE 3 SUBSTATIONS - SQUAW VALLEY																					
Complete Civil Construction																					
Complete Physical Construction	30	30	30																		
Complete Electrical Construction				38	38	38	38														
Complete System Protection Construction								12	12	12	12										
Complete Offsite Improvements and Mitigations												21	21	21	21						
PHASE 3 SUBSTATIONS - KINGS BEACH																					
Complete Civil Construction		40	40	40	40																
Complete Physical Construction						30	30	30	30												
Complete Electrical Construction										38	38	38	38								
Complete System Protection Construction														12	12	12	12				
Complete Offsite Improvements and Mitigations																		21	21	21	21
TRANSMISSIION LINES																					
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction (USFS Out of Basin only)																					
Complete Road Construction (USFS Out of Basin only)																					
Complete Logging Operations (USFS Out of Basin only)																					
Complete Environmental Construction (Refresh and Remaining)																					
Complete Road Construction (Remaining)																					
Complete Logging Operations (Remaining)																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Logging Operations																					
Complete Road Construction																					
Complete Foundation Construction																					
Complete Line Construction																					
Complete Removals																					
PHASE 3 - 625 LINE UPGRADE																					
Complete Environmental Construction																					
Complete Road Construction																					
Complete Logging Operations																					
Complete Foundation Construction	35	35	35	35	35	35															
Complete Line Construction		130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130			
Complete Removals												53	53	53	53	53	53	53			
	137	265	265	273	281	271	236	210	184	192	192	254	264	238	238	216	195	204	21	21	21
	106	235	235	235	243	233	198	198	172	180	180	233	242	216	216	216	195	204	21	21	21
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Construction Schedule by Phase

Phase Name	Duration	Start	Finish	Year in which Activity would Occur 2013	2014	2016	2018	2019	Work Days (No.) PEA Alt	Modified Alt	Road-Focused Alt	Proposed Alt	Applic PCAPCD
SUBSTATIONS													
PHASE 1 SUBSTATIONS - NORTHSTAR													
Complete Civil Construction	5 days	Mon 5/5/14	Fri 5/9/14	0	1	0	0	0	5.0	5.0	5.0	5.0	1
Complete Physical Construction	20 days	Mon 5/26/14	Fri 6/20/14	0	1	0	0	0	20.0	20.0	20.0	20.0	1
Complete Electrical Construction	20 days	Mon 6/23/14	Fri 7/18/14	0	1	0	0	0	20.0	20.0	20.0	20.0	1
Complete System Protection Construction	20 days	Mon 7/21/14	Fri 8/15/14	0	1	0	0	0	20.0	20.0	20.0	20.0	1
Complete Offsite Improvements and Mitigations	20 days	Mon 8/18/14	Fri 9/12/14	0	1	0	0	0	20.0	20.0	20.0	20.0	1
PHASE 2 SUBSTATIONS - KINGS BEACH													
Complete Civil Construction	5 days	Mon 5/2/16	Fri 5/6/16	0	0	1	0	0	5.0	5.0	5.0	5.0	1
Complete Physical Construction	20 days	Mon 5/9/16	Fri 6/3/16	0	0	1	0	0	20.0	20.0	20.0	20.0	1
Complete Electrical Construction	20 days	Mon 6/6/16	Fri 7/1/16	0	0	1	0	0	20.0	20.0	20.0	20.0	1
Complete System Protection Construction	20 days	Mon 7/4/16	Fri 7/29/16	0	0	1	0	0	20.0	20.0	20.0	20.0	1
Complete Offsite Improvements and Mitigations	20 days	Mon 8/1/16	Fri 8/26/16	0	0	1	0	0	20.0	20.0	20.0	20.0	1
PHASE 2 SUBSTATION - NORTHSTAR													
Complete Civil Construction	5 days	Mon 5/2/16	Fri 5/6/16	0	0	1	0	0	5.0	5.0	5.0	5.0	1
Complete Physical Construction	20 days	Mon 5/9/16	Fri 6/3/16	0	0	1	0	0	20.0	20.0	20.0	20.0	1
Complete Electrical Construction	20 days	Mon 6/6/16	Fri 7/1/16	0	0	1	0	0	20.0	20.0	20.0	20.0	1
Complete System Protection Construction	20 days	Mon 7/4/16	Fri 7/29/16	0	0	1	0	0	20.0	20.0	20.0	20.0	1
Complete Offsite Improvements and Mitigations	20 days	Mon 8/1/16	Fri 8/26/16	0	0	1	0	0	20.0	20.0	20.0	20.0	1
PHASE 2 SUBSTATIONS - NORTH TRUCKEE													
Complete Civil Construction	5 days	Mon 5/2/16	Fri 5/6/16	0	0	1	0	0	5.0	5.0	5.0	5.0	0
Complete Physical Construction	20 days	Mon 5/9/16	Fri 6/3/16	0	0	1	0	0	20.0	20.0	20.0	20.0	0
Complete Electrical Construction	20 days	Mon 6/6/16	Fri 7/1/16	0	0	1	0	0	20.0	20.0	20.0	20.0	0
Complete System Protection Construction	20 days	Mon 7/4/16	Fri 7/29/16	0	0	1	0	0	20.0	20.0	20.0	20.0	0
Complete Offsite Improvements and Mitigations	20 days	Mon 8/1/16	Fri 8/26/16	0	0	1	0	0	20.0	20.0	20.0	20.0	0
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY													
Complete Civil Construction	20 days	Mon 7/4/16	Fri 7/29/16	0	0	1	0	0	20.0	20.0	20.0	20.0	1
Complete Physical Construction	20 days	Mon 6/6/16	Fri 7/1/16	0	0	1	0	0	20.0	20.0	20.0	20.0	1
Complete Electrical Construction	15 days	Mon 5/16/16	Fri 6/3/16	0	0	1	0	0	15.0	15.0	15.0	15.0	1
Complete System Protection Construction	10 days	Mon 5/2/16	Fri 5/13/16	0	0	1	0	0	10.0	10.0	10.0	10.0	1
Complete Offsite Improvements and Mitigations	20 days	Mon 8/1/16	Fri 8/26/16	0	0	1	0	0	20.0	20.0	20.0	20.0	1
PHASE 3 SUBSTATIONS - TAHOE CITY													
Complete Civil Construction	20 days	Mon 4/29/19	Fri 5/24/19	0	0	0	0	1	20.0	20.0	20.0	20.0	1
Complete Physical Construction	20 days	Mon 5/20/19	Fri 6/14/19	0	0	0	0	1	20.0	20.0	20.0	20.0	1
Complete Electrical Construction	20 days	Mon 6/17/19	Fri 7/12/19	0	0	0	0	1	20.0	20.0	20.0	20.0	1
Complete System Protection Construction	20 days	Mon 7/15/19	Fri 8/9/19	0	0	0	0	1	20.0	20.0	20.0	20.0	1
Complete Offsite Improvements and Mitigations	20 days	Mon 8/12/19	Fri 9/6/19	0	0	0	0	1	20.0	20.0	20.0	20.0	1
PHASE 3 SUBSTATIONS - SQUAW VALLEY													
Complete Civil Construction	10 days	Mon 4/29/19	Fri 5/10/19	0	0	0	0	1	10.0	10.0	10.0	10.0	1
Complete Physical Construction	20 days	Mon 5/13/19	Fri 6/7/19	0	0	0	0	1	20.0	20.0	20.0	20.0	1
Complete Electrical Construction	20 days	Mon 6/10/19	Fri 7/5/19	0	0	0	0	1	20.0	20.0	20.0	20.0	1
Complete System Protection Construction	20 days	Mon 7/8/19	Fri 8/2/19	0	0	0	0	1	20.0	20.0	20.0	20.0	1
Complete Offsite Improvements and Mitigations	20 days	Mon 8/5/19	Fri 8/30/19	0	0	0	0	1	20.0	20.0	20.0	20.0	1
PHASE 3 SUBSTATIONS - KINGS BEACH													
Complete Civil Construction	20 days	Mon 5/27/19	Fri 6/21/19	0	0	0	0	1	20.0	20.0	20.0	20.0	1
Complete Physical Construction	20 days	Mon 6/24/19	Fri 7/19/19	0	0	0	0	1	20.0	20.0	20.0	20.0	1
Complete Electrical Construction	20 days	Mon 7/22/19	Fri 8/16/19	0	0	0	0	1	20.0	20.0	20.0	20.0	1
Complete System Protection Construction	20 days	Mon 8/19/19	Fri 9/13/19	0	0	0	0	1	20.0	20.0	20.0	20.0	1
Complete Offsite Improvements and Mitigations	20 days	Mon 9/16/19	Fri 10/11/19	0	0	0	0	1	20.0	20.0	20.0	20.0	1
TRANSMISSION LINES													
PHASE 1 TRANSMISSION - 650 LINE UPGRADE										3/22/2013 - SB approved of these values			
Complete Environmental Construction (USFS Out of Basin only)	20 days	Fri 8/16/13	Thu 9/12/13	1	0	0	0	0	20.0	20.0	21.0	20.0	1
Complete Road Construction (USFS Out of Basin only)	20 days	Fri 8/30/13	Thu 9/26/13	1	0	0	0	0	20.0	20.0	20.0	20.0	1
Complete Logging Operations (USFS Out of Basin only)	20 days	Fri 9/13/13	Thu 10/10/13	1	0	0	0	0	20.0	20.0	20.0	20.0	1
Complete Environmental Construction (Refresh and Remaining)	20 days	Thu 5/1/14	Wed 5/28/14	0	1	0	0	0	20.0	16.0	21.0	20.0	1
Complete Road Construction (Remaining)	20 days	Thu 5/15/14	Wed 6/11/14	0	1	0	0	0	20.0	16.0	20.0	20.0	1
Complete Logging Operations (Remaining)	20 days	Thu 5/29/14	Wed 6/25/14	0	1	0	0	0	20.0	16.0	20.0	20.0	1
Complete Foundation Construction	30 days	Thu 5/15/14	Wed 6/25/14	0	1	0	0	0	30.0	24.0	31.5	30.0	1
Complete Line Construction	90 days	Thu 6/12/14	Wed 10/15/14	0	1	0	0	0	90.0	72.0	94.5	90.0	1
Complete Removals	30 days	Thu 9/4/14	Wed 10/15/14	0	1	0	0	0	30.0	24.0	30.0	30.0	1
PHASE 2 TRANSMISSION - 650 LINE UPGRADE													
Complete Environmental Construction	10 days	Tue 5/3/16	Mon 5/16/16	0	0	1	0	0	10.0	10.0	10.5	10.0	1
Complete Logging Operations	5 days	Tue 5/17/16	Mon 5/23/16	0	0	1	0	0	5.0	5.0	5.3	5.0	1
Complete Road Construction	5 days	Tue 5/24/16	Mon 5/30/16	0	0	1	0	0	5.0	5.0	5.3	5.0	1
Complete Foundation Construction	10 days	Tue 5/31/16	Mon 6/13/16	0	0	1	0	0	10.0	10.0	10.5	10.0	1
Complete Line Construction	20 days	Mon 6/20/16	Fri 7/15/16	0	0	1	0	0	20.0	20.0	21.0	20.0	1
Complete Removals	5 days	Mon 7/11/16	Fri 7/15/16	0	0	1	0	0	5.0	5.0	5.3	5.0	1
PHASE 3 - 625 LINE UPGRADE													
Complete Environmental Construction	40 days	Wed 5/2/18	Tue 6/26/18	0	0	0	1	0	40.0	40.0	32.0	32.0	1
Complete Road Construction	60 days	Wed 5/30/18	Tue 8/21/18	0	0	0	1	0	60.0	60.0	48.0	48.0	1
Complete Logging Operations	58 days	Wed 7/11/18	Fri 9/28/18	0	0	0	1	0	58.0	58.0	46.4	46.4	1
Complete Foundation Construction	40 days	Wed 5/1/19	Tue 6/25/19	0	0	0	0	1	40.0	42.0	32.0	32.0	1
Complete Line Construction	80 days	Wed 5/29/19	Tue 9/17/19	0	0	0	0	1	80.0	84.0	64.0	64.0	1
Complete Removals	30 days	Wed 8/7/19	Tue 9/17/19	0	0	0	0	1	30.0	30.0	28.5	28.5	1
			Total Work Days						1,348	1,312	1,302	1,291	

Construction Schedule by Phase

Cells containing the value "1" indicate weeks when the emissions from each phase would occur.

The unhighlighted row indicates the number of simultaneous construction activities during each week.

			2013									2014								
	able Jurisdictions		Aug			Sep				Oct		May					Jun			
Phase Name	LTAB	NSAQMD	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11	5/2	5/9	5/16	5/23	5/30	6/6	6/13	6/20	6/27
SUBSTATIONS																				
PHASE 1 SUBSTATIONS - NORTHSTAR																				
Complete Civil Construction	0	0											1							
Complete Physical Construction	0	0														1	1	1	1	
Complete Electrical Construction	0	0																		1
Complete System Protection Construction	0	0																		
Complete Offsite Improvements and Mitigations	0	0																		
PHASE 2 SUBSTATIONS - KINGS BEACH																				
Complete Civil Construction	1	0																		
Complete Physical Construction	1	0																		
Complete Electrical Construction	1	0																		
Complete System Protection Construction	1	0																		
Complete Offsite Improvements and Mitigations	1	0																		
PHASE 2 SUBSTATION - NORTHSTAR																				
Complete Civil Construction	0	0																		
Complete Physical Construction	0	0																		
Complete Electrical Construction	0	0																		
Complete System Protection Construction	0	0																		
Complete Offsite Improvements and Mitigations	0	0																		
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																				
Complete Civil Construction	0	1																		
Complete Physical Construction	0	1																		
Complete Electrical Construction	0	1																		
Complete System Protection Construction	0	1																		
Complete Offsite Improvements and Mitigations	0	1																		
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																				
Complete Civil Construction	1	0																		
Complete Physical Construction	1	0																		
Complete Electrical Construction	1	0																		
Complete System Protection Construction	1	0																		
Complete Offsite Improvements and Mitigations	1	0																		
PHASE 3 SUBSTATIONS - TAHOE CITY																				
Complete Civil Construction	1	0																		
Complete Physical Construction	1	0																		
Complete Electrical Construction	1	0																		
Complete System Protection Construction	1	0																		
Complete Offsite Improvements and Mitigations	1	0																		
PHASE 3 SUBSTATIONS - SQUAW VALLEY																				
Complete Civil Construction	0	0																		
Complete Physical Construction	0	0																		
Complete Electrical Construction	0	0																		
Complete System Protection Construction	0	0																		
Complete Offsite Improvements and Mitigations	0	0																		
PHASE 3 SUBSTATIONS - KINGS BEACH																				
Complete Civil Construction	1	0																		
Complete Physical Construction	1	0																		
Complete Electrical Construction	1	0																		
Complete System Protection Construction	1	0																		
Complete Offsite Improvements and Mitigations	1	0																		
TRANSMISSION LINES																				
PHASE 1 TRANSMISSION - 650 LINE UPGRADE	s! Yay!																			
Complete Environmental Construction (USFS Out of Basin only)	0	0	1	1	1	1	1													
Complete Road Construction (USFS Out of Basin only)	0	0			1	1	1	1	1											
Complete Logging Operations (USFS Out of Basin only)	0	0					1	1	1	1	1									
Complete Environmental Construction (Refresh and Remaining)	1	1										1	1	1	1	1				
Complete Road Construction (Remaining)	1	0												1	1	1	1	1		
Complete Logging Operations (Remaining)	1	0														1	1	1	1	1
Complete Foundation Construction	1	1												1	1	1	1	1	1	1
Complete Line Construction	1	1																1	1	1
Complete Removals	1	1																		
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																				
Complete Environmental Construction	1	0																		
Complete Logging Operations	1	0																		
Complete Road Construction	1	0																		
Complete Foundation Construction	1	0																		
Complete Line Construction	1	0																		
Complete Removals	1	0																		
PHASE 3 - 625 LINE UPGRADE																				
Complete Environmental Construction	1	0																		
Complete Road Construction	1	0																		
Complete Logging Operations	1	0																		
Complete Foundation Construction	1	0																		
Complete Line Construction	1	0																		
Complete Removals	1	0																		

Construction Schedule by Phase

																	2016					
	Jul				Aug					Sep				Oct			May				Jun	
Phase Name	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3	####	####	5/7	5/14	5/21	5/28	6/4	6/11
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction	1	1	1																			
Complete System Protection Construction				1	1	1	1															
Complete Offsite Improvements and Mitigations								1	1	1	1											
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																	1					
Complete Physical Construction																		1	1	1	1	
Complete Electrical Construction																						1
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																	1					
Complete Physical Construction																		1	1	1	1	
Complete Electrical Construction																						1
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																	1					
Complete Physical Construction																		1	1	1	1	
Complete Electrical Construction																						1
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						1
Complete Electrical Construction																			1	1	1	
Complete System Protection Construction																	1	1				
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Complete Removals										1	1	1	1	1	1	1						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																	1	1	1			
Complete Logging Operations																			1	1		
Complete Road Construction																				1	1	
Complete Foundation Construction																					1	1
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction																						
Complete Logging Operations																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						

Construction Schedule by Phase

												2018										
			Jul					Aug				May				Jun					Jul	
Phase Name	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	5/4	5/11	5/18	5/25	6/1	6/8	6/15	6/22	6/29	7/6	7/13
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction	1	1	1																			
Complete System Protection Construction				1	1	1	1															
Complete Offsite Improvements and Mitigations								1	1	1	1											
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction	1	1	1																			
Complete System Protection Construction				1	1	1	1															
Complete Offsite Improvements and Mitigations								1	1	1	1											
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction	1	1	1																			
Complete System Protection Construction				1	1	1	1															
Complete Offsite Improvements and Mitigations								1	1	1	1											
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction				1	1	1	1															
Complete Physical Construction	1	1	1																			
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations								1	1	1	1											
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction	1																					
Complete Line Construction		1	1	1	1																	
Complete Removals					1																	
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction												1	1	1	1	1	1	1	1	1		
Complete Road Construction																1	1	1	1	1	1	1
Complete Logging Operations																						1
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						

Construction Schedule by Phase

												2019										
			Aug					Sep				May					Jun				Jul	
Phase Name	7/20	7/27	8/3	8/10	8/17	8/24	8/31	9/7	9/14	9/21	9/28	5/3	5/10	5/17	5/24	5/31	6/7	6/14	6/21	6/28	7/5	7/12
SUBSTATIONS																						
PHASE 1 SUBSTATIONS - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATION - NORTHSTAR																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - NORTH TRUCKEE																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY																						
Complete Civil Construction																						
Complete Physical Construction																						
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - TAHOE CITY																						
Complete Civil Construction												1	1	1	1							
Complete Physical Construction															1	1	1	1				
Complete Electrical Construction																			1	1	1	1
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - SQUAW VALLEY																						
Complete Civil Construction												1	1									
Complete Physical Construction														1	1	1	1					
Complete Electrical Construction																		1	1	1	1	
Complete System Protection Construction																						1
Complete Offsite Improvements and Mitigations																						
PHASE 3 SUBSTATIONS - KINGS BEACH																						
Complete Civil Construction																1	1	1	1			
Complete Physical Construction																				1	1	1
Complete Electrical Construction																						
Complete System Protection Construction																						
Complete Offsite Improvements and Mitigations																						
TRANSMISSION LINES																						
PHASE 1 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction (USFS Out of Basin only)																						
Complete Road Construction (USFS Out of Basin only)																						
Complete Logging Operations (USFS Out of Basin only)																						
Complete Environmental Construction (Refresh and Remaining)																						
Complete Road Construction (Remaining)																						
Complete Logging Operations (Remaining)																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 2 TRANSMISSION - 650 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Logging Operations																						
Complete Road Construction																						
Complete Foundation Construction																						
Complete Line Construction																						
Complete Removals																						
PHASE 3 - 625 LINE UPGRADE																						
Complete Environmental Construction																						
Complete Road Construction	1	1	1	1	1	1																
Complete Logging Operations	1	1	1	1	1	1	1	1	1	1	1											
Complete Foundation Construction												1	1	1	1	1	1	1	1	1		
Complete Line Construction																1	1	1	1	1	1	1
Complete Removals																						

Construction Schedule by Phase

Phase Name	7/19	7/26	8/2	8/9	8/16	8/23	8/30	9/6	9/13	9/20	9/27	10/4	10/11
			Aug					Sep				Oct	
SUBSTATIONS													
PHASE 1 SUBSTATIONS - NORTHSTAR													
Complete Civil Construction													
Complete Physical Construction													
Complete Electrical Construction													
Complete System Protection Construction													
Complete Offsite Improvements and Mitigations													
PHASE 2 SUBSTATIONS - KINGS BEACH													
Complete Civil Construction													
Complete Physical Construction													
Complete Electrical Construction													
Complete System Protection Construction													
Complete Offsite Improvements and Mitigations													
PHASE 2 SUBSTATION - NORTHSTAR													
Complete Civil Construction													
Complete Physical Construction													
Complete Electrical Construction													
Complete System Protection Construction													
Complete Offsite Improvements and Mitigations													
PHASE 2 SUBSTATIONS - NORTH TRUCKEE													
Complete Civil Construction													
Complete Physical Construction													
Complete Electrical Construction													
Complete System Protection Construction													
Complete Offsite Improvements and Mitigations													
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY													
Complete Civil Construction													
Complete Physical Construction													
Complete Electrical Construction													
Complete System Protection Construction													
Complete Offsite Improvements and Mitigations													
PHASE 3 SUBSTATIONS - TAHOE CITY													
Complete Civil Construction													
Complete Physical Construction													
Complete Electrical Construction													
Complete System Protection Construction	1	1	1	1									
Complete Offsite Improvements and Mitigations					1	1	1	1					
PHASE 3 SUBSTATIONS - SQUAW VALLEY													
Complete Civil Construction													
Complete Physical Construction													
Complete Electrical Construction													
Complete System Protection Construction	1	1	1										
Complete Offsite Improvements and Mitigations				1	1	1	1						
PHASE 3 SUBSTATIONS - KINGS BEACH													
Complete Civil Construction													
Complete Physical Construction	1												
Complete Electrical Construction		1	1	1	1								
Complete System Protection Construction						1	1	1	1				
Complete Offsite Improvements and Mitigations										1	1	1	1
TRANSMISSION LINES													
PHASE 1 TRANSMISSION - 650 LINE UPGRADE													
Complete Environmental Construction (USFS Out of Basin only)													
Complete Road Construction (USFS Out of Basin only)													
Complete Logging Operations (USFS Out of Basin only)													
Complete Environmental Construction (Refresh and Remaining)													
Complete Road Construction (Remaining)													
Complete Logging Operations (Remaining)													
Complete Foundation Construction													
Complete Line Construction													
Complete Removals													
PHASE 2 TRANSMISSION - 650 LINE UPGRADE													
Complete Environmental Construction													
Complete Logging Operations													
Complete Road Construction													
Complete Foundation Construction													
Complete Line Construction													
Complete Removals													
PHASE 3 - 625 LINE UPGRADE													
Complete Environmental Construction													
Complete Road Construction													
Complete Logging Operations													
Complete Foundation Construction													
Complete Line Construction	1	1	1	1	1	1	1	1	1	1			
Complete Removals				1	1	1	1	1	1	1			

Summary of Daily Construction Emissions by Phase
PEA Alternative

	Daily Emissions (lb/day)									
Task Name	ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Construction Activity Type
SUBSTATIONS										
PHASE 1 SUBSTATIONS - NORTHSTAR										
Complete Civil Construction	8.5	65.3	3.1	11.3	3.1	1.5	39.8	0.1	8,749	Substation Construction-Civil
Complete Physical Construction	6.1	13.2	0.7	3.5	0.7	0.4	13.2	0.0	2,013	Substation Construction-Physical
Complete Electrical Construction	5.6	44.7	1.9	2.4	1.9	0.2	37.5	0.1	6,372	Substation Construction-Electrical
Complete System Protection Construction	1.9	13.1	0.7	2.4	0.7	0.2	11.9	0.0	1,875	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.0	37.5	1.7	2.4	1.7	0.2	20.8	0.1	5,360	Substation Construction-Offsite Improvements
PHASE 2 SUBSTATIONS - KINGS BEACH										
Complete Civil Construction	8.8	69.3	3.3	12.9	3.3	1.7	41.1	0.1	9,520	Substation Construction-Civil
Complete Physical Construction	6.2	50.4	2.3	4.3	2.3	0.4	30.0	0.1	6,974	Substation Construction-Physical
Complete Electrical Construction	5.8	46.2	2.0	3.0	2.0	0.3	38.0	0.1	6,661	Substation Construction-Electrical
Complete System Protection Construction	2.0	14.1	0.8	2.8	0.8	0.3	12.2	0.0	2,068	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.1	38.5	1.8	2.8	1.8	0.3	21.1	0.1	5,553	Substation Construction-Offsite Improvements
PHASE 2 SUBSTATION - NORTHSTAR										
Complete Civil Construction	8.5	65.3	3.1	11.3	3.1	1.5	39.8	0.1	8,749	Substation Construction-Civil
Complete Physical Construction	6.1	48.4	2.3	3.5	2.3	0.4	29.3	0.1	6,588	Substation Construction-Physical
Complete Electrical Construction	5.6	44.7	1.9	2.4	1.9	0.2	37.5	0.1	6,372	Substation Construction-Electrical
Complete System Protection Construction	1.9	13.1	0.7	2.4	0.7	0.2	11.9	0.0	1,875	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.0	37.5	1.7	2.4	1.7	0.2	20.8	0.1	5,360	Substation Construction-Offsite Improvements
PHASE 2 SUBSTATIONS - NORTH TRUCKEE										
Complete Civil Construction	8.7	68.3	3.2	12.5	3.2	1.6	40.8	0.1	9,328	Substation Construction-Civil
Complete Physical Construction	6.2	49.9	2.3	4.1	2.3	0.4	29.8	0.1	6,877	Substation Construction-Physical
Complete Electrical Construction	5.7	45.7	2.0	2.8	2.0	0.3	37.8	0.1	6,564	Substation Construction-Electrical
Complete System Protection Construction	1.9	13.6	0.8	2.6	0.8	0.3	12.0	0.0	1,972	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.1	38.5	1.8	2.8	1.8	0.3	21.1	0.1	5,553	Substation Construction-Offsite Improvements
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY										
Complete Civil Construction	8.6	66.8	3.2	11.9	3.2	1.6	40.3	0.1	9,039	Substation Construction-Civil
Complete Physical Construction	6.2	49.9	2.3	4.1	2.3	0.4	29.8	0.1	6,877	Substation Construction-Physical
Complete Electrical Construction	5.7	45.7	2.0	2.8	2.0	0.3	37.8	0.1	6,564	Substation Construction-Electrical
Complete System Protection Construction	1.9	13.6	0.8	2.6	0.8	0.3	12.0	0.0	1,972	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.1	38.5	1.8	2.8	1.8	0.3	21.1	0.1	5,553	Substation Construction-Offsite Improvements
PHASE 3 SUBSTATIONS - TAHOE CITY										
Complete Civil Construction	8.8	68.8	3.3	12.7	3.2	1.7	41.0	0.1	9,424	Substation Construction-Civil
Complete Physical Construction	6.3	51.3	2.4	4.7	2.4	0.5	30.3	0.1	7,166	Substation Construction-Physical
Complete Electrical Construction	5.9	47.1	2.0	3.4	2.0	0.3	38.3	0.1	6,853	Substation Construction-Electrical
Complete System Protection Construction	2.0	14.6	0.8	3.0	0.8	0.3	12.4	0.0	2,164	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.1	39.5	1.8	3.2	1.8	0.3	21.5	0.1	5,745	Substation Construction-Offsite Improvements

	Daily Emissions (lb/day)									
Task Name	ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Construction Activity Type
PHASE 3 SUBSTATIONS - SQUAW VALLEY										
Complete Civil Construction	8.8	68.8	3.3	12.7	3.2	1.7	41.0	0.1	9,424	Substation Construction-Civil
Complete Physical Construction	6.3	50.8	2.4	4.5	2.4	0.5	30.1	0.1	7,070	Substation Construction-Physical
Complete Electrical Construction	5.8	46.7	2.0	3.2	2.0	0.3	38.2	0.1	6,757	Substation Construction-Electrical
Complete System Protection Construction	2.0	14.6	0.8	3.0	0.8	0.3	12.4	0.0	2,164	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.1	39.0	1.8	3.0	1.8	0.3	21.3	0.1	5,649	Substation Construction-Offsite Improvements
PHASE 3 SUBSTATIONS - KINGS BEACH										
Complete Civil Construction	8.6	66.3	3.2	11.7	3.2	1.6	40.1	0.1	8,942	Substation Construction-Civil
Complete Physical Construction	6.1	49.4	2.3	3.9	2.3	0.4	29.6	0.1	6,781	Substation Construction-Physical
Complete Electrical Construction	5.7	45.7	2.0	2.8	2.0	0.3	37.8	0.1	6,564	Substation Construction-Electrical
Complete System Protection Construction	1.9	13.6	0.8	2.6	0.8	0.3	12.0	0.0	1,972	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.0	38.0	1.7	2.6	1.7	0.3	21.0	0.1	5,456	Substation Construction-Offsite Improvements
TRANSMISSION LINES										
PHASE 1 TRANSMISSION - 650 LINE UPGRADE										
Complete Environmental Construction (USFS Ou	14.2	118.3	5.0	16.8	5.0	2.1	60.1	0.2	15,725	650 Line ROW Preparation
Complete Road Construction (USFS Out of Basin	14.2	118.3	5.0	16.8	5.0	2.1	60.1	0.2	15,725	650 Line ROW Preparation
Complete Logging Operations (USFS Out of Basir	29.8	272.4	10.5	9.3	10.4	1.0	118.5	0.4	41,526	Tree Removal
Complete Environmental Construction (Refresh	14.2	118.3	5.0	16.8	5.0	2.1	60.1	0.2	15,725	650 Line ROW Preparation
Complete Road Construction (Remaining)	14.2	118.3	5.0	16.8	5.0	2.1	60.1	0.2	15,725	650 Line ROW Preparation
Complete Logging Operations (Remaining)	29.8	272.4	10.5	9.3	10.4	1.0	118.5	0.4	41,526	Tree Removal
Complete Foundation Construction	7.6	64.5	2.4	10.4	2.4	1.0	35.3	0.1	9,942	Self-Supporting Steel Pole Footings
Complete Line Construction	23.6	194.8	8.4	24.7	8.4	3.1	126.5	0.3	26,606	650 Line Construction
Complete Removals	11.6	100.4	4.1	11.6	4.1	1.2	52.7	0.2	14,250	Line Removal
PHASE 2 TRANSMISSION - 650 LINE UPGRADE										
Complete Environmental Construction	14.4	120.3	5.0	17.6	5.0	2.2	60.8	0.2	16,110	650 Line ROW Preparation
Complete Logging Operations	31.7	299.7	11.4	12.9	11.3	1.3	126.3	0.4	47,043	Tree Removal
Complete Road Construction	14.8	124.7	5.2	19.4	5.1	2.3	62.3	0.2	16,977	650 Line ROW Preparation
Complete Foundation Construction	7.8	67.4	2.5	11.6	2.5	1.2	36.3	0.1	10,520	Self-Supporting Steel Pole Footings
Complete Line Construction	23.7	195.3	8.4	24.9	8.4	3.1	126.7	0.3	26,702	650 Line Construction
Complete Removals	14.7	121.6	4.7	13.1	4.7	1.3	57.1	0.2	19,650	Line Removal
PHASE 3 - 625 LINE UPGRADE										
Complete Environmental Construction	22.6	188.6	8.0	26.2	8.0	3.4	93.2	0.3	24,233	New 625 Line ROW Preparation
Complete Road Construction	22.5	188.1	8.0	26.0	8.0	3.4	93.1	0.3	24,136	New 625 Line ROW Preparation
Complete Logging Operations	29.9	274.0	10.5	9.5	10.4	1.0	119.0	0.4	41,850	Tree Removal
Complete Foundation Construction	7.5	64.0	2.4	10.2	2.4	1.0	35.2	0.1	9,846	Self-Supporting Steel Pole Footings
Complete Line Construction	26.6	217.5	9.1	25.1	9.1	3.1	132.1	0.3	31,282	New 625 Line Construction
Complete Removals	14.5	120.2	4.6	12.5	4.6	1.3	56.6	0.2	19,361	Line Removal

Summary of Daily Construction Emissions by Phase
Modified Alternative

Task Name	Daily Emissions (lb/day) ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Construction Activity Type
SUBSTATIONS										
PHASE 1 SUBSTATIONS - NORTHSTAR										
Complete Civil Construction	8.5	65.3	3.1	11.3	3.1	1.5	39.8	0.1	8,749	Substation Construction-Civil
Complete Physical Construction	6.1	13.2	0.7	3.5	0.7	0.4	13.2	0.0	2,013	Substation Construction-Physical
Complete Electrical Construction	5.6	44.7	1.9	2.4	1.9	0.2	37.5	0.1	6,372	Substation Construction-Electrical
Complete System Protection Construction	1.9	13.1	0.7	2.4	0.7	0.2	11.9	0.0	1,875	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.0	37.5	1.7	2.4	1.7	0.2	20.8	0.1	5,360	Substation Construction-Offsite Improvements
PHASE 2 SUBSTATIONS - KINGS BEACH										
Complete Civil Construction	8.8	69.3	3.3	12.9	3.3	1.7	41.1	0.1	9,520	Substation Construction-Civil
Complete Physical Construction	6.2	50.4	2.3	4.3	2.3	0.4	30.0	0.1	6,974	Substation Construction-Physical
Complete Electrical Construction	5.8	46.2	2.0	3.0	2.0	0.3	38.0	0.1	6,661	Substation Construction-Electrical
Complete System Protection Construction	2.0	14.1	0.8	2.8	0.8	0.3	12.2	0.0	2,068	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.1	38.5	1.8	2.8	1.8	0.3	21.1	0.1	5,553	Substation Construction-Offsite Improvements
PHASE 2 SUBSTATION - NORTHSTAR										
Complete Civil Construction	8.5	65.3	3.1	11.3	3.1	1.5	39.8	0.1	8,749	Substation Construction-Civil
Complete Physical Construction	6.1	48.4	2.3	3.5	2.3	0.4	29.3	0.1	6,588	Substation Construction-Physical
Complete Electrical Construction	5.6	44.7	1.9	2.4	1.9	0.2	37.5	0.1	6,372	Substation Construction-Electrical
Complete System Protection Construction	1.9	13.1	0.7	2.4	0.7	0.2	11.9	0.0	1,875	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.0	37.5	1.7	2.4	1.7	0.2	20.8	0.1	5,360	Substation Construction-Offsite Improvements
PHASE 2 SUBSTATIONS - NORTH TRUCKEE										
Complete Civil Construction	8.7	68.3	3.2	12.5	3.2	1.6	40.8	0.1	9,328	Substation Construction-Civil
Complete Physical Construction	6.2	49.9	2.3	4.1	2.3	0.4	29.8	0.1	6,877	Substation Construction-Physical
Complete Electrical Construction	5.7	45.7	2.0	2.8	2.0	0.3	37.8	0.1	6,564	Substation Construction-Electrical
Complete System Protection Construction	1.9	13.6	0.8	2.6	0.8	0.3	12.0	0.0	1,972	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.1	38.5	1.8	2.8	1.8	0.3	21.1	0.1	5,553	Substation Construction-Offsite Improvements
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY										
Complete Civil Construction	8.6	66.8	3.2	11.9	3.2	1.6	40.3	0.1	9,039	Substation Construction-Civil
Complete Physical Construction	6.2	49.9	2.3	4.1	2.3	0.4	29.8	0.1	6,877	Substation Construction-Physical
Complete Electrical Construction	5.7	45.7	2.0	2.8	2.0	0.3	37.8	0.1	6,564	Substation Construction-Electrical
Complete System Protection Construction	1.9	13.6	0.8	2.6	0.8	0.3	12.0	0.0	1,972	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.1	38.5	1.8	2.8	1.8	0.3	21.1	0.1	5,553	Substation Construction-Offsite Improvements
PHASE 3 SUBSTATIONS - TAHOE CITY										
Complete Civil Construction	8.8	68.8	3.3	12.7	3.2	1.7	41.0	0.1	9,424	Substation Construction-Civil
Complete Physical Construction	6.3	51.3	2.4	4.7	2.4	0.5	30.3	0.1	7,166	Substation Construction-Physical
Complete Electrical Construction	5.9	47.1	2.0	3.4	2.0	0.3	38.3	0.1	6,853	Substation Construction-Electrical
Complete System Protection Construction	2.0	14.6	0.8	3.0	0.8	0.3	12.4	0.0	2,164	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.1	39.5	1.8	3.2	1.8	0.3	21.5	0.1	5,745	Substation Construction-Offsite Improvements

	Daily Emissions (lb/day)									
Task Name	ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Construction Activity Type
PHASE 3 SUBSTATIONS - SQUAW VALLEY										
Complete Civil Construction	8.8	68.8	3.3	12.7	3.2	1.7	41.0	0.1	9,424	Substation Construction-Civil
Complete Physical Construction	6.3	50.8	2.4	4.5	2.4	0.5	30.1	0.1	7,070	Substation Construction-Physical
Complete Electrical Construction	5.8	46.7	2.0	3.2	2.0	0.3	38.2	0.1	6,757	Substation Construction-Electrical
Complete System Protection Construction	2.0	14.6	0.8	3.0	0.8	0.3	12.4	0.0	2,164	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.1	39.0	1.8	3.0	1.8	0.3	21.3	0.1	5,649	Substation Construction-Offsite Improvements
PHASE 3 SUBSTATIONS - KINGS BEACH										
Complete Civil Construction	8.6	66.3	3.2	11.7	3.2	1.6	40.1	0.1	8,942	Substation Construction-Civil
Complete Physical Construction	6.1	49.4	2.3	3.9	2.3	0.4	29.6	0.1	6,781	Substation Construction-Physical
Complete Electrical Construction	5.7	45.7	2.0	2.8	2.0	0.3	37.8	0.1	6,564	Substation Construction-Electrical
Complete System Protection Construction	1.9	13.6	0.8	2.6	0.8	0.3	12.0	0.0	1,972	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.0	38.0	1.7	2.6	1.7	0.3	21.0	0.1	5,456	Substation Construction-Offsite Improvements
TRANSMISSION LINES										
PHASE 1 TRANSMISSION - 650 LINE UPGRADE										
Complete Environmental Construction (USFS Ou	2.3	118.3	5.0	16.8	5.0	2.1	60.1	0.2	15,725	650 Line ROW Preparation
Complete Road Construction (USFS Out of Basin	2.3	118.3	5.0	16.8	5.0	2.1	60.1	0.2	15,725	650 Line ROW Preparation
Complete Logging Operations (USFS Out of Basir	29.8	272.4	10.5	9.3	10.4	1.0	118.5	0.4	41,526	Tree Removal
Complete Environmental Construction (Refresh	2.3	118.3	5.0	16.8	5.0	2.1	60.1	0.2	15,725	650 Line ROW Preparation
Complete Road Construction (Remaining)	2.3	118.3	5.0	16.8	5.0	2.1	60.1	0.2	15,725	650 Line ROW Preparation
Complete Logging Operations (Remaining)	29.8	272.4	10.5	9.3	10.4	1.0	118.5	0.4	41,526	Tree Removal
Complete Foundation Construction	7.6	64.5	2.4	10.4	2.4	1.0	35.3	0.1	9,942	Self-Supporting Steel Pole Footings
Complete Line Construction	23.6	194.8	8.4	24.7	8.4	3.1	126.5	0.3	26,606	650 Line Construction
Complete Removals	11.6	100.4	4.1	11.6	4.1	1.2	52.7	0.2	14,250	Line Removal
PHASE 2 TRANSMISSION - 650 LINE UPGRADE										
Complete Environmental Construction	2.5	120.3	5.0	17.6	5.0	2.2	60.8	0.2	16,110	650 Line ROW Preparation
Complete Logging Operations	31.7	299.7	11.4	12.9	11.3	1.3	126.3	0.4	47,043	Tree Removal
Complete Road Construction	2.9	124.7	5.2	19.4	5.1	2.3	62.3	0.2	16,977	650 Line ROW Preparation
Complete Foundation Construction	7.8	67.4	2.5	11.6	2.5	1.2	36.3	0.1	10,520	Self-Supporting Steel Pole Footings
Complete Line Construction	23.7	195.3	8.4	24.9	8.4	3.1	126.7	0.3	26,702	650 Line Construction
Complete Removals	14.7	121.6	4.7	13.1	4.7	1.3	57.1	0.2	19,650	Line Removal
PHASE 3 - 625 LINE UPGRADE										
Complete Environmental Construction	22.6	188.6	8.0	26.2	8.0	3.4	93.2	0.3	24,233	New 625 Line ROW Preparation
Complete Road Construction	22.5	188.1	8.0	26.0	8.0	3.4	93.1	0.3	24,136	New 625 Line ROW Preparation
Complete Logging Operations	29.9	274.0	10.5	9.5	10.4	1.0	119.0	0.4	41,850	Tree Removal
Complete Foundation Construction	7.5	64.0	2.4	10.2	2.4	1.0	35.2	0.1	9,846	Self-Supporting Steel Pole Footings
Complete Line Construction	26.6	217.5	9.1	25.1	9.1	3.1	132.1	0.3	31,282	New 625 Line Construction
Complete Removals	14.5	120.2	4.6	12.5	4.6	1.3	56.6	0.2	19,361	Line Removal

Summary of Daily Construction Emissions by Phase
Road Focused Alternative

Task Name	Daily Emissions (lb/day) ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Construction Activity Type
SUBSTATIONS										
PHASE 1 SUBSTATIONS - NORTHSTAR										
Complete Civil Construction	8.5	65.3	3.1	11.3	3.1	1.5	39.8	0.1	8,749	Substation Construction-Civil
Complete Physical Construction	6.1	13.2	0.7	3.5	0.7	0.4	13.2	0.0	2,013	Substation Construction-Physical
Complete Electrical Construction	5.6	44.7	1.9	2.4	1.9	0.2	37.5	0.1	6,372	Substation Construction-Electrical
Complete System Protection Construction	1.9	13.1	0.7	2.4	0.7	0.2	11.9	0.0	1,875	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.0	37.5	1.7	2.4	1.7	0.2	20.8	0.1	5,360	Substation Construction-Offsite Improvements
PHASE 2 SUBSTATIONS - KINGS BEACH										
Complete Civil Construction	8.8	69.3	3.3	12.9	3.3	1.7	41.1	0.1	9,520	Substation Construction-Civil
Complete Physical Construction	6.2	50.4	2.3	4.3	2.3	0.4	30.0	0.1	6,974	Substation Construction-Physical
Complete Electrical Construction	5.8	46.2	2.0	3.0	2.0	0.3	38.0	0.1	6,661	Substation Construction-Electrical
Complete System Protection Construction	2.0	14.1	0.8	2.8	0.8	0.3	12.2	0.0	2,068	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.1	38.5	1.8	2.8	1.8	0.3	21.1	0.1	5,553	Substation Construction-Offsite Improvements
PHASE 2 SUBSTATION - NORTHSTAR										
Complete Civil Construction	8.5	65.3	3.1	11.3	3.1	1.5	39.8	0.1	8,749	Substation Construction-Civil
Complete Physical Construction	6.1	48.4	2.3	3.5	2.3	0.4	29.3	0.1	6,588	Substation Construction-Physical
Complete Electrical Construction	5.6	44.7	1.9	2.4	1.9	0.2	37.5	0.1	6,372	Substation Construction-Electrical
Complete System Protection Construction	1.9	13.1	0.7	2.4	0.7	0.2	11.9	0.0	1,875	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.0	37.5	1.7	2.4	1.7	0.2	20.8	0.1	5,360	Substation Construction-Offsite Improvements
PHASE 2 SUBSTATIONS - NORTH TRUCKEE										
Complete Civil Construction	8.7	68.3	3.2	12.5	3.2	1.6	40.8	0.1	9,328	Substation Construction-Civil
Complete Physical Construction	6.2	49.9	2.3	4.1	2.3	0.4	29.8	0.1	6,877	Substation Construction-Physical
Complete Electrical Construction	5.7	45.7	2.0	2.8	2.0	0.3	37.8	0.1	6,564	Substation Construction-Electrical
Complete System Protection Construction	1.9	13.6	0.8	2.6	0.8	0.3	12.0	0.0	1,972	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.1	38.5	1.8	2.8	1.8	0.3	21.1	0.1	5,553	Substation Construction-Offsite Improvements
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY										
Complete Civil Construction	8.6	66.8	3.2	11.9	3.2	1.6	40.3	0.1	9,039	Substation Construction-Civil
Complete Physical Construction	6.2	49.9	2.3	4.1	2.3	0.4	29.8	0.1	6,877	Substation Construction-Physical
Complete Electrical Construction	5.7	45.7	2.0	2.8	2.0	0.3	37.8	0.1	6,564	Substation Construction-Electrical
Complete System Protection Construction	1.9	13.6	0.8	2.6	0.8	0.3	12.0	0.0	1,972	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.1	38.5	1.8	2.8	1.8	0.3	21.1	0.1	5,553	Substation Construction-Offsite Improvements
PHASE 3 SUBSTATIONS - TAHOE CITY										
Complete Civil Construction	8.8	68.8	3.3	12.7	3.2	1.7	41.0	0.1	9,424	Substation Construction-Civil
Complete Physical Construction	6.3	51.3	2.4	4.7	2.4	0.5	30.3	0.1	7,166	Substation Construction-Physical
Complete Electrical Construction	5.9	47.1	2.0	3.4	2.0	0.3	38.3	0.1	6,853	Substation Construction-Electrical
Complete System Protection Construction	2.0	14.6	0.8	3.0	0.8	0.3	12.4	0.0	2,164	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.1	39.5	1.8	3.2	1.8	0.3	21.5	0.1	5,745	Substation Construction-Offsite Improvements

	Daily Emissions (lb/day)									
Task Name	ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Construction Activity Type
PHASE 3 SUBSTATIONS - SQUAW VALLEY										
Complete Civil Construction	8.8	68.8	3.3	12.7	3.2	1.7	41.0	0.1	9,424	Substation Construction-Civil
Complete Physical Construction	6.3	50.8	2.4	4.5	2.4	0.5	30.1	0.1	7,070	Substation Construction-Physical
Complete Electrical Construction	5.8	46.7	2.0	3.2	2.0	0.3	38.2	0.1	6,757	Substation Construction-Electrical
Complete System Protection Construction	2.0	14.6	0.8	3.0	0.8	0.3	12.4	0.0	2,164	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.1	39.0	1.8	3.0	1.8	0.3	21.3	0.1	5,649	Substation Construction-Offsite Improvements
PHASE 3 SUBSTATIONS - KINGS BEACH										
Complete Civil Construction	8.6	66.3	3.2	11.7	3.2	1.6	40.1	0.1	8,942	Substation Construction-Civil
Complete Physical Construction	6.1	49.4	2.3	3.9	2.3	0.4	29.6	0.1	6,781	Substation Construction-Physical
Complete Electrical Construction	5.7	45.7	2.0	2.8	2.0	0.3	37.8	0.1	6,564	Substation Construction-Electrical
Complete System Protection Construction	1.9	13.6	0.8	2.6	0.8	0.3	12.0	0.0	1,972	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.0	38.0	1.7	2.6	1.7	0.3	21.0	0.1	5,456	Substation Construction-Offsite Improvements
TRANSMISSION LINES										
PHASE 1 TRANSMISSION - 650 LINE UPGRADE										
Complete Environmental Construction (USFS Ou	2.2	118.3	5.0	16.8	5.0	2.1	60.1	0.2	15,725	650 Line ROW Preparation
Complete Road Construction (USFS Out of Basin	2.2	118.3	5.0	16.8	5.0	2.1	60.1	0.2	15,725	650 Line ROW Preparation
Complete Logging Operations (USFS Out of Basir	28.9	266.5	10.3	9.3	10.2	1.0	117.4	0.4	39,951	Tree Removal
Complete Environmental Construction (Refresh	2.2	118.3	5.0	16.8	5.0	2.1	60.1	0.2	15,725	650 Line ROW Preparation
Complete Road Construction (Remaining)	2.2	118.3	5.0	16.8	5.0	2.1	60.1	0.2	15,725	650 Line ROW Preparation
Complete Logging Operations (Remaining)	28.9	266.5	10.3	9.3	10.2	1.0	117.4	0.4	39,951	Tree Removal
Complete Foundation Construction	7.6	64.5	2.4	10.4	2.4	1.0	35.3	0.1	9,942	Self-Supporting Steel Pole Footings
Complete Line Construction	23.2	191.8	8.4	24.7	8.3	3.1	126.0	0.3	25,818	650 Line Construction
Complete Removals	11.6	100.4	4.1	11.6	4.1	1.2	52.7	0.2	14,250	Line Removal
PHASE 2 TRANSMISSION - 650 LINE UPGRADE										
Complete Environmental Construction	2.3	120.3	5.0	17.6	5.0	2.2	60.8	0.2	16,110	650 Line ROW Preparation
Complete Logging Operations	30.8	293.7	11.3	12.9	11.1	1.3	125.2	0.4	45,468	Tree Removal
Complete Road Construction	2.7	124.7	5.2	19.4	5.1	2.3	62.3	0.2	16,977	650 Line ROW Preparation
Complete Foundation Construction	7.8	67.4	2.5	11.6	2.5	1.2	36.3	0.1	10,520	Self-Supporting Steel Pole Footings
Complete Line Construction	23.2	192.3	8.4	24.9	8.3	3.1	126.1	0.3	25,915	650 Line Construction
Complete Removals	13.8	115.7	4.5	13.1	4.5	1.3	56.0	0.2	18,075	Line Removal
PHASE 3 - 625 LINE UPGRADE										
Complete Environmental Construction	22.6	188.6	8.0	26.2	8.0	3.4	93.2	0.3	24,233	New 625 Line ROW Preparation
Complete Road Construction	22.5	188.1	8.0	26.0	8.0	3.4	93.1	0.3	24,136	New 625 Line ROW Preparation
Complete Logging Operations	29.0	268.1	10.4	9.5	10.3	1.0	117.9	0.4	40,275	Tree Removal
Complete Foundation Construction	7.5	64.0	2.4	10.2	2.4	1.0	35.2	0.1	9,846	Self-Supporting Steel Pole Footings
Complete Line Construction	25.7	211.6	9.0	25.1	8.9	3.1	131.0	0.3	29,707	New 625 Line Construction
Complete Removals	13.6	114.2	4.5	12.5	4.5	1.3	55.5	0.2	17,786	Line Removal

Summary of Daily Construction Emissions by Phase
Proposed Project/Action

Task Name	Daily Emissions (lb/day) ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Construction Activity Type
SUBSTATIONS										
PHASE 1 SUBSTATIONS - NORTHSTAR										
Complete Civil Construction	8.5	65.3	3.1	11.3	3.1	1.5	39.8	0.1	8,749	Substation Construction-Civil
Complete Physical Construction	6.1	13.2	0.7	3.5	0.7	0.4	13.2	0.0	2,013	Substation Construction-Physical
Complete Electrical Construction	5.6	44.7	1.9	2.4	1.9	0.2	37.5	0.1	6,372	Substation Construction-Electrical
Complete System Protection Construction	1.9	13.1	0.7	2.4	0.7	0.2	11.9	0.0	1,875	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.0	37.5	1.7	2.4	1.7	0.2	20.8	0.1	5,360	Substation Construction-Offsite Improvements
PHASE 2 SUBSTATIONS - KINGS BEACH										
Complete Civil Construction	8.8	69.3	3.3	12.9	3.3	1.7	41.1	0.1	9,520	Substation Construction-Civil
Complete Physical Construction	6.2	50.4	2.3	4.3	2.3	0.4	30.0	0.1	6,974	Substation Construction-Physical
Complete Electrical Construction	5.8	46.2	2.0	3.0	2.0	0.3	38.0	0.1	6,661	Substation Construction-Electrical
Complete System Protection Construction	2.0	14.1	0.8	2.8	0.8	0.3	12.2	0.0	2,068	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.1	38.5	1.8	2.8	1.8	0.3	21.1	0.1	5,553	Substation Construction-Offsite Improvements
PHASE 2 SUBSTATION - NORTHSTAR										
Complete Civil Construction	8.5	65.3	3.1	11.3	3.1	1.5	39.8	0.1	8,749	Substation Construction-Civil
Complete Physical Construction	6.1	48.4	2.3	3.5	2.3	0.4	29.3	0.1	6,588	Substation Construction-Physical
Complete Electrical Construction	5.6	44.7	1.9	2.4	1.9	0.2	37.5	0.1	6,372	Substation Construction-Electrical
Complete System Protection Construction	1.9	13.1	0.7	2.4	0.7	0.2	11.9	0.0	1,875	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.0	37.5	1.7	2.4	1.7	0.2	20.8	0.1	5,360	Substation Construction-Offsite Improvements
PHASE 2 SUBSTATIONS - NORTH TRUCKEE										
Complete Civil Construction	8.7	68.3	3.2	12.5	3.2	1.6	40.8	0.1	9,328	Substation Construction-Civil
Complete Physical Construction	6.2	49.9	2.3	4.1	2.3	0.4	29.8	0.1	6,877	Substation Construction-Physical
Complete Electrical Construction	5.7	45.7	2.0	2.8	2.0	0.3	37.8	0.1	6,564	Substation Construction-Electrical
Complete System Protection Construction	1.9	13.6	0.8	2.6	0.8	0.3	12.0	0.0	1,972	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.1	38.5	1.8	2.8	1.8	0.3	21.1	0.1	5,553	Substation Construction-Offsite Improvements
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY										
Complete Civil Construction	8.6	66.8	3.2	11.9	3.2	1.6	40.3	0.1	9,039	Substation Construction-Civil
Complete Physical Construction	6.2	49.9	2.3	4.1	2.3	0.4	29.8	0.1	6,877	Substation Construction-Physical
Complete Electrical Construction	5.7	45.7	2.0	2.8	2.0	0.3	37.8	0.1	6,564	Substation Construction-Electrical
Complete System Protection Construction	1.9	13.6	0.8	2.6	0.8	0.3	12.0	0.0	1,972	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.1	38.5	1.8	2.8	1.8	0.3	21.1	0.1	5,553	Substation Construction-Offsite Improvements
PHASE 3 SUBSTATIONS - TAHOE CITY										
Complete Civil Construction	8.8	68.8	3.3	12.7	3.2	1.7	41.0	0.1	9,424	Substation Construction-Civil
Complete Physical Construction	6.3	51.3	2.4	4.7	2.4	0.5	30.3	0.1	7,166	Substation Construction-Physical
Complete Electrical Construction	5.9	47.1	2.0	3.4	2.0	0.3	38.3	0.1	6,853	Substation Construction-Electrical
Complete System Protection Construction	2.0	14.6	0.8	3.0	0.8	0.3	12.4	0.0	2,164	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.1	39.5	1.8	3.2	1.8	0.3	21.5	0.1	5,745	Substation Construction-Offsite Improvements

	Daily Emissions (lb/day)									
Task Name	ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Construction Activity Type
PHASE 3 SUBSTATIONS - SQUAW VALLEY										
Complete Civil Construction	8.8	68.8	3.3	12.7	3.2	1.7	41.0	0.1	9,424	Substation Construction-Civil
Complete Physical Construction	6.3	50.8	2.4	4.5	2.4	0.5	30.1	0.1	7,070	Substation Construction-Physical
Complete Electrical Construction	5.8	46.7	2.0	3.2	2.0	0.3	38.2	0.1	6,757	Substation Construction-Electrical
Complete System Protection Construction	2.0	14.6	0.8	3.0	0.8	0.3	12.4	0.0	2,164	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.1	39.0	1.8	3.0	1.8	0.3	21.3	0.1	5,649	Substation Construction-Offsite Improvements
PHASE 3 SUBSTATIONS - KINGS BEACH										
Complete Civil Construction	8.6	66.3	3.2	11.7	3.2	1.6	40.1	0.1	8,942	Substation Construction-Civil
Complete Physical Construction	6.1	49.4	2.3	3.9	2.3	0.4	29.6	0.1	6,781	Substation Construction-Physical
Complete Electrical Construction	5.7	45.7	2.0	2.8	2.0	0.3	37.8	0.1	6,564	Substation Construction-Electrical
Complete System Protection Construction	1.9	13.6	0.8	2.6	0.8	0.3	12.0	0.0	1,972	Substation Construction-System Protection
Complete Offsite Improvements and Mitigations	5.0	38.0	1.7	2.6	1.7	0.3	21.0	0.1	5,456	Substation Construction-Offsite Improvements
TRANSMISSION LINES										
PHASE 1 TRANSMISSION - 650 LINE UPGRADE										
Complete Environmental Construction (USFS Ou	14.2	118.3	5.0	16.8	5.0	2.1	60.1	0.2	15,725	650 Line ROW Preparation
Complete Road Construction (USFS Out of Basin	14.2	118.3	5.0	16.8	5.0	2.1	60.1	0.2	15,725	650 Line ROW Preparation
Complete Logging Operations (USFS Out of Basir	29.4	269.4	10.4	9.3	10.3	1.0	118.0	0.4	40,738	Tree Removal
Complete Environmental Construction (Refresh	14.2	118.3	5.0	16.8	5.0	2.1	60.1	0.2	15,725	650 Line ROW Preparation
Complete Road Construction (Remaining)	14.2	118.3	5.0	16.8	5.0	2.1	60.1	0.2	15,725	650 Line ROW Preparation
Complete Logging Operations (Remaining)	29.4	269.4	10.4	9.3	10.3	1.0	118.0	0.4	40,738	Tree Removal
Complete Foundation Construction	7.6	64.5	2.4	10.4	2.4	1.0	35.3	0.1	9,942	Self-Supporting Steel Pole Footings
Complete Line Construction	23.4	193.3	8.4	24.7	8.4	3.1	126.2	0.3	26,212	650 Line Construction
Complete Removals	11.6	100.4	4.1	11.6	4.1	1.2	52.7	0.2	14,250	Line Removal
PHASE 2 TRANSMISSION - 650 LINE UPGRADE										
Complete Environmental Construction	14.4	120.3	5.0	17.6	5.0	2.2	60.8	0.2	16,110	650 Line ROW Preparation
Complete Logging Operations	31.2	296.7	11.4	12.9	11.2	1.3	125.7	0.4	46,255	Tree Removal
Complete Road Construction	14.8	124.7	5.2	19.4	5.1	2.3	62.3	0.2	16,977	650 Line ROW Preparation
Complete Foundation Construction	7.8	67.4	2.5	11.6	2.5	1.2	36.3	0.1	10,520	Self-Supporting Steel Pole Footings
Complete Line Construction	23.4	193.8	8.4	24.9	8.4	3.1	126.4	0.3	26,309	650 Line Construction
Complete Removals	12.0	103.9	4.2	13.1	4.2	1.3	53.8	0.2	14,924	Line Removal
PHASE 3 - 625 LINE UPGRADE										
Complete Environmental Construction	22.6	188.6	8.0	26.2	8.0	3.4	93.2	0.3	24,233	New 625 Line ROW Preparation
Complete Road Construction	22.5	188.1	8.0	26.0	8.0	3.4	93.1	0.3	24,136	New 625 Line ROW Preparation
Complete Logging Operations	29.5	271.0	10.4	9.5	10.3	1.0	118.4	0.4	41,063	Tree Removal
Complete Foundation Construction	7.5	64.0	2.4	10.2	2.4	1.0	35.2	0.1	9,846	Self-Supporting Steel Pole Footings
Complete Line Construction	24.6	204.2	8.8	25.1	8.7	3.1	129.6	0.3	27,738	New 625 Line Construction
Complete Removals	11.8	102.4	4.2	12.5	4.1	1.3	53.3	0.2	14,635	Line Removal

Summary of Construction Emissions by Phase and by Activity
PEA Alternative

Daily Truck Emissions (lb/day)

Task Name	ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Proportion of PM10 Exh from Off-Road Equip
PHASE 1 SUBSTATIONS - NORTHSTAR										
Complete Civil Construction										
Off-Road Equipment	8.2	64.0	3.1	7.6	3.1	1.1	35.5	0.1	8,143	99%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.1	1.0	0.0	0.4	0.0	0.0	0.3	0.0	193	
Subtotal	8.5	65.3	3.1	11.3	3.1	1.5	39.8	0.1	8,749	
Complete Physical Construction										
Off-Road Equipment	5.9	12.4	0.7	0.0	0.7	0.0	9.1	0.0	1,503	97%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.0	0.5	0.0	0.2	0.0	0.0	0.2	0.0	96	
Subtotal	6.1	13.2	0.7	3.5	0.7	0.4	13.2	0.0	2,013	
Complete Electrical Construction										
Off-Road Equipment	5.5	44.0	1.9	0.0	1.9	0.0	34.7	0.1	5,999	99%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.0	0.5	0.0	0.2	0.0	0.0	0.2	0.0	96	
Subtotal	5.6	44.7	1.9	2.4	1.9	0.2	37.5	0.1	6,372	
Complete System Protection Construction										
Off-Road Equipment	1.7	12.4	0.7	0.0	0.7	0.0	9.1	0.0	1,503	98%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.0	0.5	0.0	0.2	0.0	0.0	0.2	0.0	96	
Subtotal	1.9	13.1	0.7	2.4	0.7	0.2	11.9	0.0	1,875	
Complete Offsite Improvements and Mitigations										
Off-Road Equipment	4.8	36.8	1.7	0.0	1.7	0.0	18.0	0.1	4,988	99%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.0	0.5	0.0	0.2	0.0	0.0	0.2	0.0	96	
Subtotal	5.0	37.5	1.7	2.4	1.7	0.2	20.8	0.1	5,360	

Daily Truck Emissions (lb/day)

Task Name	ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Proportion of PM10 Exh from Off-Road Equip
PHASE 2 SUBSTATIONS - KINGS BEACH										
Complete Civil Construction										
Off-Road Equipment	8.2	64.0	3.1	7.6	3.1	1.1	35.5	0.1	8,143	95%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.4	4.9	0.2	2.1	0.1	0.2	1.7	0.0	964	
Subtotal	8.8	69.3	3.3	12.9	3.3	1.7	41.1	0.1	9,520	
Complete Physical Construction										
Off-Road Equipment	5.9	47.5	2.3	0.0	2.3	0.0	25.2	0.1	6,078	96%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.2	2.5	0.1	1.0	0.1	0.1	0.8	0.0	482	
Subtotal	6.2	50.4	2.3	4.3	2.3	0.4	30.0	0.1	6,974	
Complete Electrical Construction										
Off-Road Equipment	5.5	44.0	1.9	0.0	1.9	0.0	34.7	0.1	5,999	97%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.2	2.0	0.1	0.8	0.1	0.1	0.7	0.0	385	
Subtotal	5.8	46.2	2.0	3.0	2.0	0.3	38.0	0.1	6,661	
Complete System Protection Construction										
Off-Road Equipment	1.7	12.4	0.7	0.0	0.7	0.0	9.1	0.0	1,503	94%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.1	1.5	0.0	0.6	0.0	0.1	0.5	0.0	289	
Subtotal	2.0	14.1	0.8	2.8	0.8	0.3	12.2	0.0	2,068	
Complete Offsite Improvements and Mitigations										
Off-Road Equipment	4.8	36.8	1.7	0.0	1.7	0.0	18.0	0.1	4,988	97%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.1	1.5	0.0	0.6	0.0	0.1	0.5	0.0	289	
Subtotal	5.1	38.5	1.8	2.8	1.8	0.3	21.1	0.1	5,553	

Daily Truck Emissions (lb/day)

Task Name	ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Proportion of PM10 Exh from Off-Road Equip
PHASE 2 SUBSTATION - NORTHSTAR										
Complete Civil Construction										
Off-Road Equipment	8.2	64.0	3.1	7.6	3.1	1.1	35.5	0.1	8,143	99%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.1	1.0	0.0	0.4	0.0	0.0	0.3	0.0	193	
Subtotal	8.5	65.3	3.1	11.3	3.1	1.5	39.8	0.1	8,749	
Complete Physical Construction										
Off-Road Equipment	5.9	47.5	2.3	0.0	2.3	0.0	25.2	0.1	6,078	99%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.0	0.5	0.0	0.2	0.0	0.0	0.2	0.0	96	
Subtotal	6.1	48.4	2.3	3.5	2.3	0.4	29.3	0.1	6,588	
Complete Electrical Construction										
Off-Road Equipment	5.5	44.0	1.9	0.0	1.9	0.0	34.7	0.1	5,999	99%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.0	0.5	0.0	0.2	0.0	0.0	0.2	0.0	96	
Subtotal	5.6	44.7	1.9	2.4	1.9	0.2	37.5	0.1	6,372	
Complete System Protection Construction										
Off-Road Equipment	1.7	12.4	0.7	0.0	0.7	0.0	9.1	0.0	1,503	98%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.0	0.5	0.0	0.2	0.0	0.0	0.2	0.0	96	
Subtotal	1.9	13.1	0.7	2.4	0.7	0.2	11.9	0.0	1,875	
Complete Offsite Improvements and Mitigations										
Off-Road Equipment	4.8	36.8	1.7	0.0	1.7	0.0	18.0	0.1	4,988	99%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.0	0.5	0.0	0.2	0.0	0.0	0.2	0.0	96	
Subtotal	5.0	37.5	1.7	2.4	1.7	0.2	20.8	0.1	5,360	

Daily Truck Emissions (lb/day)

Task Name	ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Proportion of PM10 Exh from Off-Road Equip
PHASE 2 SUBSTATIONS - NORTH TRUCKEE										
Complete Civil Construction										
Off-Road Equipment	8.2	64.0	3.1	7.6	3.1	1.1	35.5	0.1	8,143	96%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.4	3.9	0.1	1.6	0.1	0.2	1.3	0.0	771	
Subtotal	8.7	68.3	3.2	12.5	3.2	1.6	40.8	0.1	9,328	
Complete Physical Construction										
Off-Road Equipment	5.9	47.5	2.3	0.0	2.3	0.0	25.2	0.1	6,078	97%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.2	2.0	0.1	0.8	0.1	0.1	0.7	0.0	385	
Subtotal	6.2	49.9	2.3	4.1	2.3	0.4	29.8	0.1	6,877	
Complete Electrical Construction										
Off-Road Equipment	5.5	44.0	1.9	0.0	1.9	0.0	34.7	0.1	5,999	97%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.1	1.5	0.0	0.6	0.0	0.1	0.5	0.0	289	
Subtotal	5.7	45.7	2.0	2.8	2.0	0.3	37.8	0.1	6,564	
Complete System Protection Construction										
Off-Road Equipment	1.7	12.4	0.7	0.0	0.7	0.0	9.1	0.0	1,503	95%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.1	1.0	0.0	0.4	0.0	0.0	0.3	0.0	193	
Subtotal	1.9	13.6	0.8	2.6	0.8	0.3	12.0	0.0	1,972	
Complete Offsite Improvements and Mitigations										
Off-Road Equipment	4.8	36.8	1.7	0.0	1.7	0.0	18.0	0.1	4,988	97%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.1	1.5	0.0	0.6	0.0	0.1	0.5	0.0	289	
Subtotal	5.1	38.5	1.8	2.8	1.8	0.3	21.1	0.1	5,553	

Daily Truck Emissions (lb/day)

Task Name	ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Proportion of PM10 Exh from Off-Road Equip
PHASE 2 SUBSTATIONS - DECOMMISSION BROCKWAY										
Complete Civil Construction										
Off-Road Equipment	8.2	64.0	3.1	7.6	3.1	1.1	35.5	0.1	8,143	97%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.2	2.5	0.1	1.0	0.1	0.1	0.8	0.0	482	
Subtotal	8.6	66.8	3.2	11.9	3.2	1.6	40.3	0.1	9,039	
Complete Physical Construction										
Off-Road Equipment	5.9	47.5	2.3	0.0	2.3	0.0	25.2	0.1	6,078	97%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.2	2.0	0.1	0.8	0.1	0.1	0.7	0.0	385	
Subtotal	6.2	49.9	2.3	4.1	2.3	0.4	29.8	0.1	6,877	
Complete Electrical Construction										
Off-Road Equipment	5.5	44.0	1.9	0.0	1.9	0.0	34.7	0.1	5,999	97%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.1	1.5	0.0	0.6	0.0	0.1	0.5	0.0	289	
Subtotal	5.7	45.7	2.0	2.8	2.0	0.3	37.8	0.1	6,564	
Complete System Protection Construction										
Off-Road Equipment	1.7	12.4	0.7	0.0	0.7	0.0	9.1	0.0	1,503	95%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.1	1.0	0.0	0.4	0.0	0.0	0.3	0.0	193	
Subtotal	1.9	13.6	0.8	2.6	0.8	0.3	12.0	0.0	1,972	
Complete Offsite Improvements and Mitigations										
Off-Road Equipment	4.8	36.8	1.7	0.0	1.7	0.0	18.0	0.1	4,988	97%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.1	1.5	0.0	0.6	0.0	0.1	0.5	0.0	289	
Subtotal	5.1	38.5	1.8	2.8	1.8	0.3	21.1	0.1	5,553	

Daily Truck Emissions (lb/day)

Task Name	ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Proportion of PM10 Exh from Off-Road Equip
PHASE 3 SUBSTATIONS - TAHOE CITY										
Complete Civil Construction										
Off-Road Equipment	8.2	64.0	3.1	7.6	3.1	1.1	35.5	0.1	8,143	95%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.4	4.4	0.1	1.8	0.1	0.2	1.5	0.0	867	
Subtotal	8.8	68.8	3.3	12.7	3.2	1.7	41.0	0.1	9,424	
Complete Physical Construction										
Off-Road Equipment	5.9	47.5	2.3	0.0	2.3	0.0	25.2	0.1	6,078	95%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.3	3.4	0.1	1.4	0.1	0.1	1.2	0.0	675	
Subtotal	6.3	51.3	2.4	4.7	2.4	0.5	30.3	0.1	7,166	
Complete Electrical Construction										
Off-Road Equipment	5.5	44.0	1.9	0.0	1.9	0.0	34.7	0.1	5,999	95%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.3	2.9	0.1	1.2	0.1	0.1	1.0	0.0	578	
Subtotal	5.9	47.1	2.0	3.4	2.0	0.3	38.3	0.1	6,853	
Complete System Protection Construction										
Off-Road Equipment	1.7	12.4	0.7	0.0	0.7	0.0	9.1	0.0	1,503	92%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.2	2.0	0.1	0.8	0.1	0.1	0.7	0.0	385	
Subtotal	2.0	14.6	0.8	3.0	0.8	0.3	12.4	0.0	2,164	
Complete Offsite Improvements and Mitigations										
Off-Road Equipment	4.8	36.8	1.7	0.0	1.7	0.0	18.0	0.1	4,988	95%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.2	2.5	0.1	1.0	0.1	0.1	0.8	0.0	482	
Subtotal	5.1	39.5	1.8	3.2	1.8	0.3	21.5	0.1	5,745	

Daily Truck Emissions (lb/day)

Task Name	ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Proportion of PM10 Exh from Off-Road Equip
PHASE 3 SUBSTATIONS - SQUAW VALLEY										
Complete Civil Construction										
Off-Road Equipment	8.2	64.0	3.1	7.6	3.1	1.1	35.5	0.1	8,143	95%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.4	4.4	0.1	1.8	0.1	0.2	1.5	0.0	867	
Subtotal	8.8	68.8	3.3	12.7	3.2	1.7	41.0	0.1	9,424	
Complete Physical Construction										
Off-Road Equipment	5.9	47.5	2.3	0.0	2.3	0.0	25.2	0.1	6,078	96%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.3	2.9	0.1	1.2	0.1	0.1	1.0	0.0	578	
Subtotal	6.3	50.8	2.4	4.5	2.4	0.5	30.1	0.1	7,070	
Complete Electrical Construction										
Off-Road Equipment	5.5	44.0	1.9	0.0	1.9	0.0	34.7	0.1	5,999	96%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.2	2.5	0.1	1.0	0.1	0.1	0.8	0.0	482	
Subtotal	5.8	46.7	2.0	3.2	2.0	0.3	38.2	0.1	6,757	
Complete System Protection Construction										
Off-Road Equipment	1.7	12.4	0.7	0.0	0.7	0.0	9.1	0.0	1,503	92%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.2	2.0	0.1	0.8	0.1	0.1	0.7	0.0	385	
Subtotal	2.0	14.6	0.8	3.0	0.8	0.3	12.4	0.0	2,164	
Complete Offsite Improvements and Mitigations										
Off-Road Equipment	4.8	36.8	1.7	0.0	1.7	0.0	18.0	0.1	4,988	96%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.2	2.0	0.1	0.8	0.1	0.1	0.7	0.0	385	
Subtotal	5.1	39.0	1.8	3.0	1.8	0.3	21.3	0.1	5,649	

Daily Truck Emissions (lb/day)

Task Name	ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Proportion of PM10 Exh from Off-Road Equip
PHASE 3 SUBSTATIONS - KINGS BEACH										
Complete Civil Construction										
Off-Road Equipment	8.2	64.0	3.1	7.6	3.1	1.1	35.5	0.1	8,143	98%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.2	2.0	0.1	0.8	0.1	0.1	0.7	0.0	385	
Subtotal	8.6	66.3	3.2	11.7	3.2	1.6	40.1	0.1	8,942	
Complete Physical Construction										
Off-Road Equipment	5.9	47.5	2.3	0.0	2.3	0.0	25.2	0.1	6,078	98%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.1	1.5	0.0	0.6	0.0	0.1	0.5	0.0	289	
Subtotal	6.1	49.4	2.3	3.9	2.3	0.4	29.6	0.1	6,781	
Complete Electrical Construction										
Off-Road Equipment	5.5	44.0	1.9	0.0	1.9	0.0	34.7	0.1	5,999	97%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.1	1.5	0.0	0.6	0.0	0.1	0.5	0.0	289	
Subtotal	5.7	45.7	2.0	2.8	2.0	0.3	37.8	0.1	6,564	
Complete System Protection Construction										
Off-Road Equipment	1.7	12.4	0.7	0.0	0.7	0.0	9.1	0.0	1,503	95%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.1	1.0	0.0	0.4	0.0	0.0	0.3	0.0	193	
Subtotal	1.9	13.6	0.8	2.6	0.8	0.3	12.0	0.0	1,972	
Complete Offsite Improvements and Mitigations										
Off-Road Equipment	4.8	36.8	1.7	0.0	1.7	0.0	18.0	0.1	4,988	98%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.1	1.0	0.0	0.4	0.0	0.0	0.3	0.0	193	
Subtotal	5.0	38.0	1.7	2.6	1.7	0.3	21.0	0.1	5,456	

Daily Truck Emissions (lb/day)

Task Name	ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Proportion of PM10 Exh from Off-Road Equip
PHASE 1 TRANSMISSION - 650 LINE UPGRADE										
Complete Environmental Construction (USFS Out of Basin only)										
Off-Road Equipment	13.1	108.9	4.7	7.6	4.7	1.1	50.6	0.1	13,301	94%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.2	0.6	0.0	5.5	0.0	0.6	6.5	0.0	689	
Truck Hauling	0.8	8.8	0.3	3.7	0.3	0.4	3.0	0.0	1,735	
Subtotal	14.2	118.3	5.0	16.8	5.0	2.1	60.1	0.2	15,725	
Complete Road Construction (USFS Out of Basin only)										
Off-Road Equipment	13.1	108.9	4.7	7.6	4.7	1.1	50.6	0.1	13,301	94%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.2	0.6	0.0	5.5	0.0	0.6	6.5	0.0	689	
Truck Hauling	0.8	8.8	0.3	3.7	0.3	0.4	3.0	0.0	1,735	
Subtotal	14.2	118.3	5.0	16.8	5.0	2.1	60.1	0.2	15,725	
Complete Logging Operations (USFS Out of Basin only)										
Off-Road Equipment	24.5	217.3	8.7	0.0	8.7	0.0	99.6	0.3	28,785	83%
Helicopter Use	2.7	17.8	0.5	0.0	0.5	0.0	3.2	0.0	4,726	
Worker Trips	0.2	0.5	0.0	4.4	0.0	0.4	5.2	0.0	552	
Truck Hauling	2.5	36.9	1.3	4.9	1.2	0.5	10.5	0.1	7,464	
Subtotal	29.8	272.4	10.5	9.3	10.4	1.0	118.5	0.4	41,526	
Complete Environmental Construction (Refresh and Remaining)										
Off-Road Equipment	13.1	108.9	4.7	7.6	4.7	1.1	50.6	0.1	13,301	94%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.2	0.6	0.0	5.5	0.0	0.6	6.5	0.0	689	
Truck Hauling	0.8	8.8	0.3	3.7	0.3	0.4	3.0	0.0	1,735	
Subtotal	14.2	118.3	5.0	16.8	5.0	2.1	60.1	0.2	15,725	
Complete Road Construction (Remaining)										
Off-Road Equipment	13.1	108.9	4.7	7.6	4.7	1.1	50.6	0.1	13,301	94%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.2	0.6	0.0	5.5	0.0	0.6	6.5	0.0	689	
Truck Hauling	0.8	8.8	0.3	3.7	0.3	0.4	3.0	0.0	1,735	
Subtotal	14.2	118.3	5.0	16.8	5.0	2.1	60.1	0.2	15,725	

Daily Truck Emissions (lb/day)

Task Name	ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Proportion of PM10 Exh from Off-Road Equip
Complete Logging Operations (Remaining)										
Off-Road Equipment	24.5	217.3	8.7	0.0	8.7	0.0	99.6	0.3	28,785	83%
Helicopter Use	2.7	17.8	0.5	0.0	0.5	0.0	3.2	0.0	4,726	
Worker Trips	0.2	0.5	0.0	4.4	0.0	0.4	5.2	0.0	552	
Truck Hauling	2.5	36.9	1.3	4.9	1.2	0.5	10.5	0.1	7,464	
Subtotal	29.8	272.4	10.5	9.3	10.4	1.0	118.5	0.4	41,526	
Complete Foundation Construction										
Off-Road Equipment	6.8	59.6	2.3	0.0	2.3	0.0	23.6	0.1	8,068	94%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.4	1.0	0.0	8.8	0.0	0.9	10.4	0.0	1,103	
Truck Hauling	0.4	3.9	0.1	1.6	0.1	0.2	1.3	0.0	771	
Subtotal	7.6	64.5	2.4	10.4	2.4	1.0	35.3	0.1	9,942	
Complete Line Construction										
Off-Road Equipment	21.4	177.1	7.9	11.4	7.9	1.7	111.3	0.2	21,808	94%
Helicopter Use	0.9	5.9	0.2	0.0	0.2	0.0	1.1	0.0	1,575	
Worker Trips	0.4	1.0	0.0	8.8	0.0	0.9	10.4	0.0	1,103	
Truck Hauling	1.0	10.8	0.4	4.5	0.3	0.5	3.7	0.0	2,120	
Subtotal	23.6	194.8	8.4	24.7	8.4	3.1	126.5	0.3	26,606	
Complete Removals										
Off-Road Equipment	10.6	92.6	3.9	0.0	3.9	0.0	39.9	0.1	11,798	94%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.4	1.0	0.0	8.8	0.0	0.9	10.4	0.0	1,103	
Truck Hauling	0.6	6.9	0.2	2.9	0.2	0.3	2.4	0.0	1,349	
Subtotal	11.6	100.4	4.1	11.6	4.1	1.2	52.7	0.2	14,250	

Daily Truck Emissions (lb/day)

Task Name	ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Proportion of PM10 Exh from Off-Road Equip
PHASE 2 TRANSMISSION - 650 LINE UPGRADE										
Complete Environmental Construction										
Off-Road Equipment	13.1	108.9	4.7	7.6	4.7	1.1	50.6	0.1	13,301	93%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.2	0.6	0.0	5.5	0.0	0.6	6.5	0.0	689	
Truck Hauling	1.0	10.8	0.4	4.5	0.3	0.5	3.7	0.0	2,120	
Subtotal	14.4	120.3	5.0	17.6	5.0	2.2	60.8	0.2	16,110	
Complete Logging Operations										
Off-Road Equipment	24.5	217.3	8.7	0.0	8.7	0.0	99.6	0.3	28,785	76%
Helicopter Use	2.7	17.8	0.5	0.0	0.5	0.0	3.2	0.0	4,726	
Worker Trips	0.2	0.5	0.0	4.4	0.0	0.4	5.2	0.0	552	
Truck Hauling	4.3	64.2	2.3	8.5	2.1	0.9	18.3	0.1	12,981	
Subtotal	31.7	299.7	11.4	12.9	11.3	1.3	126.3	0.4	47,043	
Complete Road Construction										
Off-Road Equipment	13.1	108.9	4.7	7.6	4.7	1.1	50.6	0.1	13,301	90%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.2	0.6	0.0	5.5	0.0	0.6	6.5	0.0	689	
Truck Hauling	1.4	15.2	0.5	6.4	0.5	0.6	5.2	0.0	2,987	
Subtotal	14.8	124.7	5.2	19.4	5.1	2.3	62.3	0.2	16,977	

Daily Truck Emissions (lb/day)

Task Name	ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Proportion of PM10 Exh from Off-Road Equip
Complete Foundation Construction										
Off-Road Equipment	6.8	59.6	2.3	0.0	2.3	0.0	23.6	0.1	8,068	91%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.4	1.0	0.0	8.8	0.0	0.9	10.4	0.0	1,103	
Truck Hauling	0.6	6.9	0.2	2.9	0.2	0.3	2.4	0.0	1,349	
Subtotal	7.8	67.4	2.5	11.6	2.5	1.2	36.3	0.1	10,520	
Complete Line Construction										
Off-Road Equipment	21.4	177.1	7.9	11.4	7.9	1.7	111.3	0.2	21,808	94%
Helicopter Use	0.9	5.9	0.2	0.0	0.2	0.0	1.1	0.0	1,575	
Worker Trips	0.4	1.0	0.0	8.8	0.0	0.9	10.4	0.0	1,103	
Truck Hauling	1.0	11.3	0.4	4.7	0.3	0.5	3.9	0.0	2,216	
Subtotal	23.7	195.3	8.4	24.9	8.4	3.1	126.7	0.3	26,702	
Complete Removals										
Off-Road Equipment	10.6	92.6	3.9	0.0	3.9	0.0	39.9	0.1	11,798	82%
Helicopter Use	2.7	17.8	0.5	0.0	0.5	0.0	3.2	0.0	4725.6	
Worker Trips	0.4	1.0	0.0	8.8	0.0	0.9	10.4	0.0	1,103	
Truck Hauling	0.9	10.3	0.3	4.3	0.3	0.4	3.5	0.0	2,024	
Subtotal	14.7	121.6	4.7	13.1	4.7	1.3	57.1	0.2	19,650	

Daily Truck Emissions (lb/day)

Task Name	ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Proportion of PM10 Exh from Off-Road Equip
PHASE 3 - 625 LINE UPGRADE										
Complete Environmental Construction										
Off-Road Equipment	21.1	174.7	7.6	15.2	7.6	2.3	82.2	0.2	20,941	95%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.2	0.6	0.0	5.5	0.0	0.6	6.5	0.0	689	
Truck Hauling	1.2	13.3	0.4	5.5	0.4	0.6	4.5	0.0	2,602	
Subtotal	22.6	188.6	8.0	26.2	8.0	3.4	93.2	0.3	24,233	
Complete Road Construction										
Off-Road Equipment	21.1	174.7	7.6	15.2	7.6	2.3	82.2	0.2	20,941	95%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.2	0.6	0.0	5.5	0.0	0.6	6.5	0.0	689	
Truck Hauling	1.2	12.8	0.4	5.3	0.4	0.5	4.4	0.0	2,505	
Subtotal	22.5	188.1	8.0	26.0	8.0	3.4	93.1	0.3	24,136	
Complete Logging Operations										
Off-Road Equipment	24.5	217.3	8.7	0.0	8.7	0.0	99.6	0.3	28,785	82%
Helicopter Use	2.7	17.8	0.5	0.0	0.5	0.0	3.2	0.0	4,726	
Worker Trips	0.2	0.5	0.0	4.4	0.0	0.4	5.2	0.0	552	
Truck Hauling	2.6	38.5	1.4	5.1	1.2	0.5	11.0	0.1	7,789	
Subtotal	29.9	274.0	10.5	9.5	10.4	1.0	119.0	0.4	41,850	

Daily Truck Emissions (lb/day)

Task Name	ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Proportion of PM10 Exh from Off-Road Equip
Complete Foundation Construction										
Off-Road Equipment	6.8	59.6	2.3	0.0	2.3	0.0	23.6	0.1	8,068	95%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.4	1.0	0.0	8.8	0.0	0.9	10.4	0.0	1,103	
Truck Hauling	0.3	3.4	0.1	1.4	0.1	0.1	1.2	0.0	675	
Subtotal	7.5	64.0	2.4	10.2	2.4	1.0	35.2	0.1	9,846	
Complete Line Construction										
Off-Road Equipment	22.5	187.0	8.2	11.4	8.2	1.7	114.4	0.2	23,141	90%
Helicopter Use	2.7	17.8	0.5	0.0	0.5	0.0	3.2	0.0	4,726	
Worker Trips	0.4	1.0	0.0	8.8	0.0	0.9	10.4	0.0	1,103	
Truck Hauling	1.1	11.8	0.4	4.9	0.4	0.5	4.0	0.0	2,313	
Subtotal	26.6	217.5	9.1	25.1	9.1	3.1	132.1	0.3	31,282	
Complete Removals										
Off-Road Equipment	10.6	92.6	3.9	0.0	3.9	0.0	39.9	0.1	11,798	83%
Helicopter Use	2.7	17.8	0.5	0.0	0.5	0.0	3.2	0.0	4,726	
Worker Trips	0.4	1.0	0.0	8.8	0.0	0.9	10.4	0.0	1,103	
Truck Hauling	0.8	8.8	0.3	3.7	0.3	0.4	3.0	0.0	1,735	
Subtotal	14.5	120.2	4.6	12.5	4.6	1.3	56.6	0.2	19,361	

Summary of Construction Emissions by Phase and by Activity
Modified Alternative

	Daily Truck Emissions (lb/day)									
Task Name	ROG	NOx	PM10 Exh	PM10 Dust	PM2.5 Exh	PM2.5 Dust	CO	SOx	CO2e	Proportion of PM10 Exh from Off-Road Equip
PHASE 1 SUBSTATIONS - NORTHSTAR										
Complete Civil Construction										
Off-Road Equipment	8.2	64.0	3.1	7.6	3.1	1.1	35.5	0.1	8,143	99%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.1	1.0	0.0	0.4	0.0	0.0	0.3	0.0	193	
Subtotal	8.5	65.3	3.1	11.3	3.1	1.5	39.8	0.1	8,749	
Complete Physical Construction										
Off-Road Equipment	5.9	12.4	0.7	0.0	0.7	0.0	9.1	0.0	1,503	97%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.0	0.5	0.0	0.2	0.0	0.0	0.2	0.0	96	
Subtotal	6.1	13.2	0.7	3.5	0.7	0.4	13.2	0.0	2,013	
Complete Electrical Construction										
Off-Road Equipment	5.5	44.0	1.9	0.0	1.9	0.0	34.7	0.1	5,999	99%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.0	0.5	0.0	0.2	0.0	0.0	0.2	0.0	96	
Subtotal	5.6	44.7	1.9	2.4	1.9	0.2	37.5	0.1	6,372	
Complete System Protection Construction										
Off-Road Equipment	1.7	12.4	0.7	0.0	0.7	0.0	9.1	0.0	1,503	98%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.0	0.5	0.0	0.2	0.0	0.0	0.2	0.0	96	
Subtotal	1.9	13.1	0.7	2.4	0.7	0.2	11.9	0.0	1,875	
Complete Offsite Improvements and Mitigations										
Off-Road Equipment	4.8	36.8	1.7	0.0	1.7	0.0	18.0	0.1	4,988	99%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.0	0.5	0.0	0.2	0.0	0.0	0.2	0.0	96	
Subtotal	5.0	37.5	1.7	2.4	1.7	0.2	20.8	0.1	5,360	

PHASE 2 SUBSTATIONS - KINGS BEACH

Complete Civil Construction										
Off-Road Equipment	8.2	64.0	3.1	7.6	3.1	1.1	35.5	0.1	8,143	95%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.4	4.9	0.2	2.1	0.1	0.2	1.7	0.0	964	
Subtotal	8.8	69.3	3.3	12.9	3.3	1.7	41.1	0.1	9,520	
Complete Physical Construction										
Off-Road Equipment	5.9	47.5	2.3	0.0	2.3	0.0	25.2	0.1	6,078	96%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.2	2.5	0.1	1.0	0.1	0.1	0.8	0.0	482	
Subtotal	6.2	50.4	2.3	4.3	2.3	0.4	30.0	0.1	6,974	
Complete Electrical Construction										
Off-Road Equipment	5.5	44.0	1.9	0.0	1.9	0.0	34.7	0.1	5,999	97%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.2	2.0	0.1	0.8	0.1	0.1	0.7	0.0	385	
Subtotal	5.8	46.2	2.0	3.0	2.0	0.3	38.0	0.1	6,661	
Complete System Protection Construction										
Off-Road Equipment	1.7	12.4	0.7	0.0	0.7	0.0	9.1	0.0	1,503	94%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.1	1.5	0.0	0.6	0.0	0.1	0.5	0.0	289	
Subtotal	2.0	14.1	0.8	2.8	0.8	0.3	12.2	0.0	2,068	
Complete Offsite Improvements and Mitigations										
Off-Road Equipment	4.8	36.8	1.7	0.0	1.7	0.0	18.0	0.1	4,988	97%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.1	1.5	0.0	0.6	0.0	0.1	0.5	0.0	289	
Subtotal	5.1	38.5	1.8	2.8	1.8	0.3	21.1	0.1	5,553	

PHASE 2 SUBSTATION - NORTHSTAR

Complete Civil Construction										
Off-Road Equipment	8.2	64.0	3.1	7.6	3.1	1.1	35.5	0.1	8,143	99%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.1	1.0	0.0	0.4	0.0	0.0	0.3	0.0	193	
Subtotal	8.5	65.3	3.1	11.3	3.1	1.5	39.8	0.1	8,749	
Complete Physical Construction										
Off-Road Equipment	5.9	47.5	2.3	0.0	2.3	0.0	25.2	0.1	6,078	99%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.4	0.0	3.3	0.0	0.3	3.9	0.0	414	
Truck Hauling	0.0	0.5	0.0	0.2	0.0	0.0	0.2	0.0	96	
Subtotal	6.1	48.4	2.3	3.5	2.3	0.4	29.3	0.1	6,588	
Complete Electrical Construction										
Off-Road Equipment	5.5	44.0	1.9	0.0	1.9	0.0	34.7	0.1	5,999	99%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.0	0.5	0.0	0.2	0.0	0.0	0.2	0.0	96	
Subtotal	5.6	44.7	1.9	2.4	1.9	0.2	37.5	0.1	6,372	
Complete System Protection Construction										
Off-Road Equipment	1.7	12.4	0.7	0.0	0.7	0.0	9.1	0.0	1,503	98%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.0	0.5	0.0	0.2	0.0	0.0	0.2	0.0	96	
Subtotal	1.9	13.1	0.7	2.4	0.7	0.2	11.9	0.0	1,875	
Complete Offsite Improvements and Mitigations										
Off-Road Equipment	4.8	36.8	1.7	0.0	1.7	0.0	18.0	0.1	4,988	99%
Helicopter Use	no use	no use	no use	no use	no use	no use	no use	no use	no use	
Worker Trips	0.1	0.2	0.0	2.2	0.0	0.2	2.6	0.0	276	
Truck Hauling	0.0	0.5	0.0	0.2	0.0	0.0	0.2	0.0	96	
Subtotal	5.0	37.5	1.7	2.4	1.7	0.2	20.8	0.1	5,360	