

CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE
SOUTH COAST REGION 5
3883 RUFFIN ROAD
SAN DIEGO, CALIFORNIA 92123



LAKE and STREAMBED ALTERATION AGREEMENT
NOTIFICATION NO. 1600-2015-0263-R5
Arroyo Seco Tributary to Los Angeles River

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
DEVIL'S GATE DAM AND RESERVOIR SEDIMENT REMOVAL PROJECT

This Lake and Streambed Alteration Agreement (Agreement) is entered into between the California Department of Fish and Wildlife (CDFW) and Los Angeles County Flood Control District (Permittee) as represented by Christopher Stone.

RECITALS

WHEREAS, pursuant to Fish and Game Code (FGC) section 1602, Permittee notified CDFW on December 11, 2015, that Permittee intends to complete the project described herein.

WHEREAS, pursuant to FGC section 1603, CDFW has determined that the project could substantially adversely affect existing fish or wildlife resources and has included measures in the Agreement necessary to protect those resources.

WHEREAS, Permittee has reviewed the Agreement and accepts its terms and conditions, including the measures to protect fish and wildlife resources.

NOW THEREFORE, Permittee agrees to complete the project in accordance with the Agreement.

PROJECT LOCATION

The project is located within Devil's Gate Dam and on the Arroyo Seco, the Permittee's flood control reservoir, a tributary to the Los Angeles River, in the County of Los Angeles, State of California; Latitude 34.185747, Longitude 118.175487. The Project is located in the City of Pasadena, northwest of the intersection of Oak Grove Dr. and Windsor Avenue (Thomas Guide Page 535, E6: Pasadena. U.S. Geological Survey (USGS) map [Pasadena], base and meridian San Bernardino; Assessor's Parcel Number(s) (5823004900, 5823003909, 5823003907, 5823003910, 5823015902, and 582301490).

PROJECT DESCRIPTION

Definitions. The following definitions shall govern this Agreement.

Non-native vegetation. Generally treated in this Agreement as semi-natural stands as described in the Manual of California Vegetation 2nd edition(MCV)¹, but some assemblages of non-native plants present within project area may not be presently defined in the MCV. These semi-natural stands can occur across a variety of environmental settings and are characterized by dominate cover of non-native, invasive, noxious, and/or nuisance plant species. The amount of non-native vegetation observed as part of relative cover will vary depending on whether observed vegetation is a woodland, shrubland, or grassland stand, but for purposes of this Agreement native vegetation will not contribute greater than 20 percent relative cover to the stand.

Perennial Woody Vegetation. Defined as an above ground stem consisting of hardened, thickened, vascular tissue (xylem) under the bark (tough tissue (including phloem)) covering the wood (hardened xylem) of subshrubs, shrubs, or trees. The stem typically has buds that survive the dormant season (winter) completing life cycle (germination through death) in more than two years or growing seasons.

Adjacent. Within 500 feet.

Ground Disturbance. Activities associated with staging, access, excavation, sediment removal, grading, or disking that disturb surface of soil.

Protected Species. A species Fully Protected under State law; a species listed under the California Endangered Species Act (Fish & G. Code § 2050 et seq.) and/or Endangered Species Act (16 U.S.C. § 1531 et seq.); a species identified by CDFW as a Species of Special Concern; or any other species for which take is prohibited under State or federal law.

Suitable Habitat. Habitat where there is at least low potential that an identified Protected Species or group of Protected Species may occur.

Suitable Nesting Habitat. Habitat where there is at least low potential that nesting birds may utilize the vegetation or structures for nesting.

Initial Vegetation Removal. The first instance of removal of vegetation, native or non-native, during Initial Sediment Removal Program.

Vegetation Management. Includes subsequent removal of vegetation either during the Initial Sediment Removal Program, Routine Annual Maintenance, Episodic Maintenance, or Habitat Restoration. Activities may involve use of hand tools, mechanically operated hand tools, or heavy equipment with mowing or grapple attachments. This may include use of motor operated winches for removal of large debris.

¹ Sawyer, J.O., T. Keeler-Wolf, and J.M. Evens.2009. *A Manual of California Vegetation*. California Native Plant Society. Sacramento, CA.

Project Start. The Project start date associated with the Sediment Removal Program where Permittee starts Initial Vegetation Removal or Ground Disturbance activities whichever occurs first.

Project Initiation. The Project start date each year where Permittee starts vegetation or ground disturbing activities whichever occurs first.

Excavation. The removal of sediment and debris from the Initial Sediment Removal Area and during Routine Annual or Episodic Maintenance using excavators or other heavy equipment to remove large volumes of sediment and debris from designated areas before graders and scrapers conduct final grading.

Days. This Agreement computes the time periods in Days in accordance with Code of Civil Procedure section 12. That section provides: "The time in which any act provided by law is to be done is computed by excluding the first day, and including the last, unless the last day is a holiday, and then it is also excluded." Saturdays and Sundays are holidays (See Code of Civ. Proc., §§ 10, 135).

Initial Sediment Removal Area. The 68.63 acre area where the initial excavation of sediment and debris will occur.

Permanent Maintenance Area. The 51.78 acre area to be maintained for flood capacity. This includes the Routine Annual Maintenance Area and the Episodic Maintenance Area.

Routine Annual Maintenance Area. The 40.80 acre area where annual maintenance of the facility will occur (see Exhibit B).

Episodic Maintenance Area. The 10.98 acre area side slope proposed at 3:1(V:H) grade (see Exhibit B). where occasional maintenance will occur. This area is within the Permanent Maintenance Area, abuts Routine Annual Maintenance Area and forms transitional habitat with Habitat Restoration Area.

Habitat Restoration Area. The 77.01 acre area in the reservoir subject to minor land alteration, vegetation management, and planting of native plants. This area is outside the Permanent Maintenance Area (See Exhibit E).

Sediment Removal Program

This phase of project is limited to the restoration of a public facility, through excavation within the 68.63 acre Initial Sediment Removal Area (see Exhibit B, Work Plan Map) and transition to long term Permanent Maintenance Area, composed of a total of 51.78 acres that consists of 40.80 acres for Routine Annual Maintenance, and 10.98 acres for Episodic Maintenance Areas for the term of this Agreement. Sediment removal will not involve expansion of use beyond that of the designed facility. The proposed initial excavation is to mechanically remove 2.4 Million Cubic Yards (MCY) of post-fire debris from the Initial Sediment Removal Area within Devil's Gate Reservoir. The location of the Initial Sediment Removal Area was selected to maximize the efficient removal of post-fire debris while at

the same time, avoid and minimize sensitive habitats and sensitive species impacts. Sediment levels behind Devil's Gate Dam will be brought down to 986 feet above mean sea level (msl) to eliminate the threat to the dam outlet works and comply with standards as set by the State Water Resources Division of Safety of Dams (DSOD). The Initial Sediment Removal Area will then slope upwards to 995 feet above msl where the basin will constrict and increase in elevation to 1,040 feet above msl, and widen again to meet final elevation of 1,060 feet above msl approximately 4,700 linear feet upstream from the dam. Devil's Gate Reservoir is routinely drained after every storm; therefore, it will not be necessary to drain the facility for non-routine activities.

The Initial Sediment Removal Area will be accessed via a new maintenance road to the east of the reservoir. Trucks will access this maintenance road directly from Oak Grove Drive. The access road will have a total width of 16 feet and paved with asphalt or concrete for 250 linear feet. Once the access road reaches the reservoir bottom the access road will end and construction vehicles may access areas necessary for vegetation and sediment removal before exiting by western leg of access road constructed from the reservoir inlet to (see Exhibit A) an existing dirt access road to the west of the dam off of Oak Grove Drive that will be widened for its entire length to a width of 16 feet. In addition, this western access road will be paved with asphalt or concrete for 250 linear feet south of the West Rim Trail to Oak Grove Drive to accommodate construction vehicles.

The reservoir will be drained of water prior to the start of Initial Sediment Removal Area activities. Excavation² and off-site removal of sediment will only occur during dry period of the year Monday through Friday from April 15 until December 31 barring storm events. If surface water inflows are present during period of excavation a Surface Water Diversion Plan will be provided to CDFW (see Condition 2.27).

The 2.4 MCY of sediment and debris in the 68.63 acres Initial Sediment Removal Area includes established native and non-native vegetation that will be removed. Vegetation and organic debris will be separated from the sediment and hauled to Scholl Canyon Landfill in the City of Glendale. Project Start is estimated to take place in the Fall of 2017. In subsequent years of sediment removal vegetation and organic debris will be hauled to Scholl Canyon Landfill.

Construction equipment will include, but not limited to, mechanical equipment such as front loaders with four-yard buckets, bulldozers, excavator, grader, water truck, and tender trucks. Vehicles expected to be used for sediment removal are double dump trucks with 18 cubic yard (CY) capacity or equivalent.

Permanent Maintenance Program

Once excavation is complete for this project, annual maintenance of the facility will occur within the 40.80 acre Routine Annual Maintenance Area (see Exhibit B). Vegetation management and sediment removal within the 40.80 acre Routine Annual Maintenance Area will occur for the life of this Agreement. Excavation over the lifetime of the project within the 40.80 acre Routine Annual Maintenance Area will be hauled to disposal sites previously authorized by Permittee (see Figures

² Excavation involving no off site hauling of vegetation and sediment will be confined to April 15 to December 31 Monday through Friday from 0700 to 1800 hours Standard Time (1900 hours during Daylight Savings Time), and on Saturday between 0800 to 1700 hours during Standard and Daylight Savings Time.

2.5-2,-3-4 from Final Environmental Impact Report). Trucks hauling sediment will access the reservoir from an existing maintenance road east of Devil's Gate Dam and exit via a proposed upgraded access road on the western edge of Devil's Gate Dam that will exit on to Oak Grove Drive (see Exhibit A). Vegetation within the Routine Annual Maintenance Area will be mowed or grubbed annually over a 2 to 12 week period in late summer or early fall.

Episodic Maintenance within the 10.98 acre (horizontal projection) Episodic Maintenance Area will initially include planting with appropriate native plants and thereafter annual undesirable plant control (using herbicides, hand tools, and mechanically operated hand tools (i.e., chainsaws and motor powered winches). In the event of a large debris flow or hyper concentrated flood³ Episodic Maintenance would involve the need for sediment excavation/trucking off site. The types of equipment involved in excavation may include those similar to the initial sediment removal phase including, but not limited to, front loaders with four-yard buckets, bulldozers, excavator, grader, water truck, and tender trucks. Vehicles expected to be used for sediment hauling include double dump trucks with an 18 cubic yard (CY) capacity or equivalent.

After Episodic Maintenance the side slopes would be returned to the proposed 3:1(V:H) grade, and the 10.98 acre area will be subject to the continuing annual undesirable plant control. Because this area is restricted from a general right of public access, and will be subject to undesirable plant control, it is anticipated to be revegetated naturally after periodic large debris flow or hyper concentrated floods.

The 77.01 acres of habitat in the reservoir, referred to as the Habitat Restoration Area will not be impacted for Permanent Maintenance Program activities, but would be subject to on-going restoration as identified in approved Habitat Restoration and Management Plans (see Conditions 3.9 and 3.10) for the site. Activities proposed include minor surface alteration of the land, vegetation management, and application of herbicides.

Restoration Activities

Pursuant to the annual Interim Measures Project (Agreement Number 1600-2006-0204-R5) the Permittee has been maintaining the access road and removing up to 25,000 CY of sediment from the upstream dam face annually and stockpiling the sediment at Johnson Field. Sediment stockpiled at Johnson Field from the Interim Measures Project activities will be removed and hauled offsite. After the removal of sediment, Johnson Field will be restored to support riparian habitat as part of a Habitat Restoration Plan (see Exhibit E and Condition 3.9).

The 77.01 acres of habitat in the reservoir, referred to as the Habitat Restoration Area (see above), will be subject to minor surface alteration of the land, vegetation management, and application of herbicides to be approved in Habitat Restoration and Management Plans (see Conditions 3.9 and 3.10 for the site).

³ **Debris flow:** A mix of water and debris, which may include particles ranging in size from clay to boulders and may contain woody debris and other materials, that flows down a stream channel or steep slope, sometimes at great velocity, and contains more than 60 percent debris (less than 40 percent water) by volume.

Hyper-concentrated flood: A moving mixture of sediment and water containing between 20 and 60 percent sediment by volume.

PROJECT IMPACTS

Existing fish or wildlife resources the project could substantially adversely affect include:

Amphibians: western toad (*Bufo boreas*), California treefrog (*Hyla cadaverina*), Sierra Madre yellow-legged frog (*Rana muscosa*);

Reptiles: Common side-blotch lizard (*Uta stansburiana*), western fence lizard (*Sceloporus occidentalis*), two-striped garter snake (*Thamnophis hammondi*), coast range newt (*Taricha tarosa tarosa*), western pond turtle (*Actinemys marmorata*), coastal western whiptail (*Aspidoscelis tigris stejnegeri*); coast patch-nosed snake (*Salvadora hexalepis*);

Birds: burrowing owl (*Athene cunicularia*), southwestern willow flycatcher (*Empidonax traillii extimus*), California quail (*Callipepla californica*), snowy egret (*Egretta thula*), Cooper's hawk (*Accipiter cooperii*), red-shouldered hawk (*Buteo lineatus*), red-tailed hawk (*Buteo jamaicensis*), killdeer (*Charadrius vociferous*), rock pigeon (*Columba livia*), mourning dove (*Zenaidura macroura*), white-throated swift (*Aeronautes saxatilis*), yellow warbler (*Dendroica petechia*), yellow-breasted chat (*Icteria virens*), loggerhead shrike (*Lanius ludovicianus*), least Bell's vireo (*Vireo bellii pusillus*), belted kingfisher (*Megaceryle alcyon*), American kestrel (*Falco sparverius*), Bewick's wren (*Thryomanes bewickii*), swallows (*Hirundinidae*), sparrows (*Emberizidae*), finches (*Fringillidae*), wood warblers (*Parulidae*) and numerous other bird species;

Mammals: pallid bat (*Antrozous pallidus*), western mastiff bat (*Eumops perotis californicus*), western yellow bat (*Lasiurus xanthinus*), southern grasshopper mouse (*Onychomys torridus ramona*), American badger (*Taxidea taxus*), coyote (*Canis latrans*), bobcat (*Lynx rufus*), desert cottontail (*Sylvilagus audubonii*), striped skunk (*Mephitis mephitis*), western gray squirrel (*Sciurus griseus*), California ground squirrel (*Spermophilus beecheyi*), grey fox (*Urocyon cinereoargenteus*); and,

Native Plants: Nevin's barberry (*Berberis nevini*), Plummer's mariposa lily (*Calochortus plummerae*), Greata's aster (*Symphotrichum gretae*), Parry's spineflower (*Chorizanthe parryi* var. *parryi*), slender-horned spineflower (*Dodecahema leptoceras*), mesa horkelia (*Horkelia cuneata* ssp. *puberula*), white rabbit-tobacco (*Pseudognaphalium leucocephalum*), Parish's gooseberry (*Ribes divaricatum* var. *parishii*), black willow thickets, mulefat thickets, riparian herbaceous, coast live oak woodland, scale broom scrub, and all other aquatic and wildlife resources in the area, including the riparian vegetation which provides habitat for such species in the area. These resources are further detailed and more particularly described in the document(s): "Devil's Gate Reservoir Sediment Removal and Management Project Final Environmental Impact Report" dated October 2014, prepared for Los Angeles County of Department of Public Works by Chambers Group; "Lake and Streambed Alteration Notification Package – Devil's Gate Dam and Reservoir Sediment Removal Project" dated December 11, 2015, prepared for CDFW by Permittee complete with all attachments and exhibits, Revised vegetation mapping and impact analysis for Devil's Gate Dam and Sediment Removal Project dated May 19, 2016 by ECORP Consulting, Inc., revised assessment of temporary impact areas and incorporation of Episodic Maintenance area dated May 5, 2016.

Project Impacts

The adverse effects the project could have on the fish or wildlife resources identified above include a total of 68.63 acres subject to Department jurisdiction to implement the Initial Sediment Removal. After Initial Sediment Removal 51.78 acres will be maintained for flood capacity through Routine Annual Maintenance and Episodic Maintenance (see above). Additionally, in order to implement compensatory mitigation for the project, 77.01 acres subject to the Department's jurisdiction outside the Permanent Maintenance Area, will be subject to minor surface alteration of the land, vegetation management, and application of herbicides. The following impacts would occur to vegetation communities within the 68.63 acres necessary for Initial Sediment Removal.

Total Permanent Project Impacts

Permanent impacts to 40.80 acres of vegetation communities and land cover classifications from initial sediment removal include the removal of 16.27 acres of *Salix gooddingii* Alliance (black willow thickets), 1.82 acres *Lepidospartum squamatum* Alliance (Scalebroom scrub), 8.03 acres *Baccharis salicifolia* shrubland Alliance (mulefat thickets), 9.88 acre *Lepidium latifolium-Conium maculatum* herbaceous semi-natural stand, 2.45 acre *Conium maculatum* herbaceous semi-natural stand, 2.33 acres non-native or disturbed (including 1.0 acre *Xanthium strumarium* herbaceous stand, 1.33 acres disturbed (trails/barren/IMP Area), 0.02 acre *Artemisia californica-Eriogonum fasciculatum* California sagebrush-California buckwheat scrub. Additionally, there are expected permanent impacts to individual California live oak trees (*Quercus agrifolia*) that vary from direct impacts, resulting in complete removal to a limited number of individual trees, and indirect impacts to individual oaks that are currently undetermined. The number of oaks subject to complete removal and indirect impact are undetermined at this time because the area's hilly topography may not result in any significant effect or project disturbance may be avoided all together based on project design modifications made from incorporating avoidance of oak trees identified in project tree monitoring report required prior to Project Start.

Total Temporary Project Impacts

Temporary impacts to 27.83 acres subject to Department jurisdiction consisting of vegetation communities and land cover classifications will occur from Initial Sediment Removal, worksite access, and installation of side-slopes in Episodic Maintenance Area. These areas contain 12.70 acres *Lepidospartum squamatum* Alliance (Scalebroom scrub), 5.89 acres of *Salix gooddingii* Alliance (black willow thickets), 3.41 acres *Baccharis salicifolia* shrubland Alliance (mulefat thickets), 1.97 acres disturbed (trails/barren/IMP Area), 1.24 acre *Lepidium latifolium-Conium maculatum* herbaceous semi-natural stand, 1.70 acres *Conium maculatum* herbaceous semi-natural stand, 0.50 acre *Xanthium strumarium* herbaceous stand, 0.27 acre *Quercus agrifolia* coast live oak (trees), 0.07 acre *Eucalyptus (globulus, camaldulensis)* Semi-natural stand, 0.08 acre *Artemisia californica-Eriogonum fasciculatum* California sagebrush-California buckwheat scrub.

MEASURES TO PROTECT FISH AND WILDLIFE RESOURCES

1. Administrative Measures

Permittee shall meet each administrative requirement described below.

- 1.1 Documentation at Project Site. Permittee shall make the Agreement, any extensions and amendments to the Agreement, and all related notification materials and California Environmental Quality Act (CEQA) documents, readily available at the project site at all times and shall be presented to CDFW personnel, or personnel from another state, federal, or local agency upon request.
- 1.2 Providing Agreement to Persons at Project Site. Permittee shall provide copies of the Agreement and any extensions and amendments to the Agreement to all persons who will be working on the Project at the project site on behalf of Permittee, including but not limited to contractors, subcontractors, inspectors, and monitors.
- 1.3 Notification of Conflicting Provisions. Permittee shall notify CDFW if Permittee determines or learns that a provision in the Agreement might conflict with a provision imposed on the project by another local, state, or federal agency. In that event, CDFW shall contact Permittee to resolve any conflict.
- 1.4 Project Site Entry. Permittee agrees that CDFW personnel may enter the project site at any time to verify compliance with the Agreement.
- 1.5 Payment of Outstanding Fees.
 - a. California Code of Regulations, Title 14, section 699.5, establishes fees for each maintenance project. Fees applicable to activities undertaken pursuant to this Agreement will be those currently in effect at the time of the activity. The 2015 paid fees include a \$2,947.50 base fee for a long term routine maintenance agreement and \$ 4,912.25 for separate Sediment Removal Program (defined in Project Description).
 - b. The annual per project fee for each routine maintenance year (July 1 to June 30) shall be paid by August 1 of the following routine maintenance year for work performed the previous routine maintenance year. For example, the annual per project fee for maintenance year July 1, 2017 to June 30, 2018 will be paid by August 1, 2018.
- 1.6 Project Initiation and Completion. The Permittee shall notify CDFW, by e-mail at R5LSAcompliance@wildlife.ca.gov, at least five (5) days prior to Project Initiation (see Definitions) and at least five (5) days prior to completion of construction (project) activities, each time project activities occur. Notification shall be sent to CDFW's South Coast Office at the address above, ATTN: Streambed Alteration Program – SAA # 1600-2015-0263-R5 or to R5LSACompliance@wildlife.ca.gov.
- 1.7 Implement as Proposed Unless Directed Differently by Agreement. The agreed work includes activities associated with the Project Location and Project Description that is provided above. Specific work areas and mitigation measures are described on/in the plans and documents submitted by the Permittee with the Notification Package, including, and shall be implemented as proposed unless directed differently by this Agreement.

- 1.8 Designated Biologist(s). The Permittee shall submit to CDFW for its review and approval a list of biological monitors (Designated Biologists) including their names, qualifications, business address, contact information, and the proposed disciplines/species for which they are proposed to provide monitoring. CDFW will respond in written format with concurrence as to the disciplines the Designated Biologists are approved to handle (birds, construction monitoring, fish, plants, mammals). The Designated Biologist shall be knowledgeable and experienced in the biology and natural history of local fish and wildlife resources present at the project site. The Designated Biologist shall be responsible for monitoring at specifically designated locations and conducting other project activities, including, but not limited to, preconstruction surveys.
- 1.9 Designated Biologist Authority. The Designated Biologist shall have the responsibility to concurrently notify the Permittee and CDFW of any activity that is not in compliance with this Agreement, and/or to recommend to Permittee any reasonable measure to avoid or minimize impacts to fish and wildlife resources. Neither the Designated Biologist nor CDFW shall be liable for any costs incurred as a result of compliance with this measure. This includes cease-work orders issued by CDFW.
- 1.10 Permitting and Safeguards. Permittee's notification for this Agreement indicated permits/certification were applied for from the Army Corps of Engineers and the Regional Water Quality Control Board, for this project, should such permits/certification be required, a copy shall be submitted to CDFW.

2. Avoidance and Minimization Measures

To avoid or minimize adverse impacts to fish and wildlife resources identified above, Permittee shall implement each measure listed below.

- 2.1 Work Period. Initial Vegetation Removal work within the Initial Sediment Removal Area shall be confined to the period starting September 15 to February 1, in the year(s) of 2017 to 2019, unless otherwise requested by Permittee and approved by CDFW in writing. Excavation shall be confined to April 15 to December 31 Monday through Friday from 0700 to 1800 hours Standard Time (1900 hours during Daylight Savings Time), and on Saturday between 0800 to 1700 hours during Standard and Daylight Savings Time. Routine Annual Maintenance or Episodic Maintenance work involving vegetation management and/or excavation is specifically addressed in Conditions 2.40 to 2.72 below.
- 2.2 Conditional Work during Rainfall Event. No Excavation work shall occur during an anticipated rainfall event. For purposes of this Agreement, "rainfall event" means events producing more than ¼ inch per 24 hour period. No Excavation work shall occur during a dry-out period of 24 hours after a rainfall event. Permittee shall monitor the National Weather Service (NWS) 72-hr forecast for the project area. All erosion control measures shall be initiated prior to all rainfall events.
- 2.3 General Preconstruction Survey. Prior to Project Start a Designated Biologist shall conduct a preconstruction survey no more than three (3) days and no less than one (1) day before proposed activities for the presence of fish, wildlife, or plants within the Initial Sediment Removal

Area and adjacent areas with accessible Suitable Habitat and establish protective measures in accordance with other conditions of the Agreement hereunder.

- 2.4 Leave Wildlife Unharmed. If any Protected Species (see Condition 2.8) are encountered and do not passively relocate, the Permittee shall contact CDFW immediately or proceed as described in Incidental Take Permits or Protected Species Plan that may authorize impacts or relocation (see Conditions 2.9 and 2.10). To greatest extent practicable, if any non-protected wildlife is encountered during the course of project (as defined in Project Description), said wildlife shall be allowed to leave the construction area unharmed including relocation by a Designated Biologist.
- 2.5 Movement of Terrestrial Species. To the greatest extent practical, any newly constructed structure including but not limited to temporary and permanent fencing, shall be designed, constructed and maintained such that it does not constitute a barrier to movement of wildlife unless intended to be wildlife exclusionary fencing. This includes but is not limited to the ingress and egress of wildlife across, under, over, and around structures. If any aspect of the proposed project results in a long term reduction of wildlife movement, the Permittee shall be responsible for all future activities and expenditures necessary, as determined by CDFW, to secure passage of wildlife across, under, over, and around the structure.
- 2.6 Bypass Flow Required. When conducting activities authorized by this Agreement, the Permittee shall allow sufficient water at all times to bypass dam to downstream reaches to maintain aquatic life below the Dam.. This bypass requirement shall not apply during periods when Dam operation is necessary to regulate flows to prevent downstream flooding. If Permittee desires a change in the operation of the Dam from the abovementioned operation, then Permittee shall request and receive an approved amendment to this Agreement.
- 2.7 Limitations on Authorization for Water Use. This agreement does not authorize any diversion or use of water. All facilities that the Permittee owns, operates, or controls shall be operated and maintained in accordance with current law and applicable water rights.

Biological Resources

- 2.8 Protected Species Defined. This Agreement does not authorize take, incidental or otherwise, of any protected species. For the purpose of this Agreement, "protected species" means the following: a species fully protected under state law, a species listed under the California Endangered Species Act (Fish & G. Code § 2050 et seq.) and/or Endangered Species Act (16 U.S.C. § 1531 et seq.); a species identified by CDFW as a species of special concern; or any other species for which take is prohibited under state or federal law.
- 2.9 CESA Listed Species Exception. This Agreement does not authorize take for least Bell's vireo, southwestern willow flycatcher, or other species listed under CESA. Prior to removing, trimming, brushing, or damaging vegetation in the stream zone in areas containing habitat suitable for CESA-listed species, the Permittee shall consult with CDFW in accordance with the procedures described in CESA (Fish & G. Code § 2080 et seq.). Minimization measures pertaining to least

Bell's vireo and Southwestern willow flycatcher are addressed in CESA Incidental Take Permit number 2081-2016-031-05.

2.10 Protected Species Avoidance and Minimization Measures. The Permittee shall have a Designated Biologist survey the proposed work area to verify the presence or absence of protected species. The results of these surveys shall be provided to CDFW, along with copies of all field notes, prior to Project Initiation. The survey technique shall be approved by CDFW in writing. CDFW will provide written response within no more than 18 days of Permittee submittal. The biologist shall have all required permits.

a. Protected Species Plan. The Permittee shall submit to CDFW for its review and approval a Protected Species Plan for the species listed in Table 1.0 below. Permittee shall receive written approval (email, letter, or fax) prior to Project Initiation. The Permittee shall have the Designated Biologist on site daily when protected species may be present to ensure that no impacts occur to protected species that are not authorized.

Table 1.0: List of Protected Species to be addressed in Protected Species Plan.

Common name	Scientific name
slender-horned spinyflower	(<i>Dodecahema leptoceras</i>)
two- striped garter snake	(<i>Thamnophis hammondi</i>)
coast range newt	(<i>Taricha tarosa tarosa</i>)
southwestern pond turtle	(<i>Actinemys marmorata</i>)
burrowing owl	(<i>Athene cunicularia</i>)
yellow warbler	(<i>Dendroica petechia</i>)
pallid bat	(<i>Antrozous pallidus</i>)
western mastiff bat	(<i>Eumops perotis californicus</i>)
western yellow bat	(<i>Lasiurus xanthinus</i>)
Coast patch-nosed snake	(<i>Salvadora hexalepis</i>)
southwestern willow flycatcher	(<i>Empidonax traillii extimus</i>)
Least Bell's vireo	(<i>Vireo bellii pusillus</i>)
Yellow-breasted chat	(<i>Icteria virens</i>)
Loggerhead shrike	(<i>Lanius ludovicianus</i>)

b. Dead or Injured Protected Species. Any dead or injured protected species found along roads or in project areas shall be reported to CDFW within 48 hours. The biologist shall report the location, cause of death, species found, and any other relevant information.

c. Seasonal and Other Restrictions. The Permittee shall not conduct any vegetation removal or ground disturbance within 1000 linear feet of least Bell's vireo or southwestern willow flycatcher habitat (see Exhibit C, LBVI suitable habitat) from March 1 through September 15 until consultation under Condition 2.9 above, is complete, and any take authorization is issued pursuant to FGC Section 2080 *et. seq.* Permittee may conduct project activities, unless

otherwise prohibited elsewhere in this Agreement, greater than 1000 linear feet of occupied or suitable least Bell's vireo or southwestern willow flycatcher species habitat from March 1 to September 15 until avoidance, minimization, and compensatory mitigation measures are authorized and distances prescribed in this Agreement are superseded. After any take authorization is issued all requirements of this Condition, 2.10 (c), shall be superseded by CESA Incidental Take Permit number 2081-2016-031-R5

d. Notification to the California Natural Diversity Database. If any Protected Species are observed in project surveys, the Designated Biologist shall have responsibility to submit a California Native Species Field Survey Form and survey map to be submitted to the Natural Diversity Database within 5 working days of the sightings. The form is available online at <http://www.dfg.ca.gov/biogeodata/cnddb/>. Instructions for completing and submitting the form are available at http://www.dfg.ca.gov/biogeodata/cnddb/submitted_data_to_cnddb.asp.

2.11 Inventory of Native Oak Trees. Within 90 days prior to Project Start the Permittee shall submit to the CDFW a complete inventory of native oak trees, by species and Diameter at Breast Height (DBH) that will be directly removed or have root protective zone impacted (see Condition 2.11a) by the project. The removal of oak trees that are approved by CDFW shall be conducted to be in compliance with other Conditions of this Agreement and any other federal, state, or local laws or ordinances protecting trees. Nothing in this Agreement authorizes Permittee to conduct removals in violation of existing federal, state, or local laws or ordinances protecting trees and shall be responsible for maintaining compliance with federal, state, or local laws or ordinances protecting trees. The Permittee shall replace trees that cannot be directly avoided, deemed to be in fair health, and not designated as seedling or sapling (less than 3" DBH). CDFW shall determine final replacement amounts for native oak trees based on inventory, and it shall be no less than 1:1 by acreage or greater than 1:1 if mitigated by individual tree. CDFW will review the Inventory of Trees and provide written direction on what native oak trees identified within in undeveloped areas subject to Oak Tree Root zone avoidance and monitoring (if any).

a. Oak Tree Root Avoidance. Heavy equipment shall not encroach on the root protection zone, nor shall equipment or soil be staged/stockpiled in the root protection zone. For purposes of this Agreement, the root protection zone shall be identified by a certified arborist. In cases where a certified arborist has not identified the root protection zone, the root protection zone shall extend from the dripline outward no less than 1.5 times the distance from the drip line to the trunk within undeveloped areas. Permittee shall flag root protection zones as off-limits where identified above, prior to starting work. If the oak tree is not directly removed, but the root protective zone is encroached the Permittee shall monitor pursuant to sub-measure (b) below.

b. Oak Tree Monitoring. All oak trees that have root protection zone encroached shall be monitored for survival annually for 5 years with subsequent reports in years 7 and 10. Any tree that does not survive by year 10 shall be replaced in method determined by CDFW. Replacement trees/plants shall be monitored for survival and growth requirements for 10 years after planting. Oak tree planting shall be achieved through small-sized container stock (1-to 5 gallon or liner) and/or caged acorns (3 acorns/site). Replacement oaks shall be caged for the first 5 years or until the main trunk reaches height of 10 feet.

- 2.12 Initial Vegetation Removal Seasonal Restrictions. The Permittee shall not conduct Initial Vegetation Removal within areas regulated by this Agreement from February 1st to September 15th to avoid impacts to bird nesting season. Pursuant to Condition 4.9, Permittee may conduct ground disturbing activities including Excavation and on-site habitat restoration between February 1st to September 15th.
- 2.13 Nesting Bird Avoidance and Impact Minimization. The Permittee shall not take or destroy nests (or eggs) of birds that are designated under Federal and California State laws, MBTA and FGC Section 3503, 3503.5, 3505, 3513. The Permittee in consultation with Designated Biologist shall employ bird exclusionary devices prior to February 1st and maintain through September 15th. If Excavation, on-site habitat restoration, or other ground disturbing activities must occur from February 1st through September 15th, the Designated Biologist shall begin bird nesting surveys 30 days prior to the direct or indirect disturbance of Suitable Nesting Habitat and continue the surveys on a weekly basis, with the last survey being conducted no more than three (3) days prior to the proposed ground disturbance. If Excavation, on-site habitat restoration, or other ground disturbing activities must occur from February 1st to September 15th Permittee shall implement a Nesting Bird Management Plan (see condition 4.9) to facilitate avoidance and minimization of impacts to nesting birds. The Nesting Bird Management Plan shall be submitted to CDFW for review and comment no less than 30 days before the start of Excavation, on-site habitat restoration, or other ground disturbing activities within the breeding season.
- 2.14 Bat Roost Avoidance and Impact Minimization. To avoid the direct loss of bats that could result from removal of trees and/or structures that may provide day or night roost habitat (e.g., in cavities or under loose bark), the Permittee shall implement the following measures for all Initial Vegetation Removal and structure removal authorized under this Agreement:
- a. Permittee should avoid suitable bat roosting tree/structure removal from March 1st to September 30th to avoid impacts to bat maternity season. Trees and/or structures determined to be maternity roosts shall be left in place until the end of maternity season or until Designated Biologist verifies no pregnant females and young in non-volant stage are present. Where suitable bat roosting tree and vegetation removal is restricted elsewhere in this Agreement the more restrictive condition shall apply.
 - b. To minimize disturbance to night roosts the Permittee shall not allow tree removal activities or conduct work activities within 100 feet of bridges between 0700 hours and 1800 hours Standard Time (1900 hours during Daylight Savings Time) at any time of the year work is conducted.
 - c. Bird exclusion netting shall not be used on underside of bridges, unless agreed to in writing (email, letter, fax) by CDFW.
 - d. Lights shall not be used under bridges.
 - e. Combustion equipment, such as generators, pumps, and vehicles, shall not be parked

or operated under bridges.

f. Personnel shall not be present under bridges from ½ hour before sunset to ½ hour after sunrise.

g. No less than 30 days before scheduled Initial Vegetation Removal and structure removal Permittee shall have a the Designated Biologist approved by CDFW, specifically for bats, conduct a pre-construction reconnaissance survey to identify those trees and/or structures proposed for disturbance that could provide hibernacula, roosting, or nursery colony habitat for bats.

h. Trees that are observed to have bat roosts shall not be sawed up or mulched immediately. A period of at least 24 hours, and preferably 48 hours at discretion of Designated Biologist and/or CDFW, shall elapse prior to such operations to allow bats to escape.

i. If bats are not detected, but the Designated Biologist determines that roosting bats may be present at any time of year, it is preferable to slowly push any tree/structure down under operator's control using heavy machinery rather than felling it with a chainsaw. In order to ensure the optimum warning for any roosting bats that may still be present, the tree should be pushed lightly two to three times, with a pause of approximately 30 seconds between each nudge to allow bats to become active. The tree should then be pushed to the ground slowly and should remain in place until it is inspected by the Designated Biologist and submeasure h above is implemented. Bats should be allowed to escape prior to demolition of structures. This may be accomplished by placing one way exclusionary devices into areas where bats are entering a building that allow bats to exit but not enter the structure.

j. The Designated bat biologist shall document all pre-construction reconnaissance survey activities, and prepare a summary report including a map of confirmed locations of bat roosts to CDFW upon completion of pre-construction reconnaissance survey.

2.15 Educational Program. Permittee shall conduct an Education Program for all persons employed or otherwise working on the Initial Sediment Removal prior to performing any work on site. The program shall consist of a presentation from a Designated Biologist that includes a discussion of the biology of the habitats and species identified in this Agreement, including invasive species see Condition 2.15a, and present at this site. The Designated Biologist shall also include as part of the education program information about the distribution and habitat needs of any Protected Species that may be present, legal protections for those species, penalties for violations and project-specific protective measures included in this Agreement. Interpretation shall be provided for non-English speaking workers, and the same instruction shall be provided for any new workers prior to their performing work on site. The Permittee shall prepare and distribute wallet-sized cards or a fact sheet that contains this information for workers to carry on site. Upon completion of the education program, employees shall sign a form stating they attended the program and understand all protection measures. These forms shall be filed at the worksite offices and be available to CDFW upon request. The Education Program shall be repeated

annually for part of the project extending more than one (1) year. Copies of program materials shall be maintained at the project site for workers to reference as needed.

a. Invasive Species Education Program. Permittee shall include invasive species in Education Program for all persons working on the Initial Sediment Removal prior to the performing any work on site. The program shall consist of a presentation from a Designated Biologist that includes a discussion of the invasive species currently present within the project site as well as those that may pose a threat to or have the potential to invade the project site. The discussion shall include a physical description of each species and information regarding their habitat preferences, local and statewide distribution, modes of dispersal, and impacts. The program shall also include a discussion of BMPs to be implemented at the project site to avoid the introduction and spread of invasive species into and out of the project site.

- 2.16 Project Lighting. Permittee's work activities shall be limited to daylight hours. If lighting is required to complete project activities or to illuminate equipment storage/staging areas at night the lighting shall not illuminate adjacent Suitable Habitat. Light fixtures near streams shall incorporate shields to direct light away from Suitable Habitat.
- 2.17 Disturbance or Removal. Disturbance or removal of vegetation shall not exceed the limits approved by this Agreement. Any disturbed portions of any stream channel or reservoir margin outside of the project limits shall be restored to their original condition under the direction of CDFW.
- 2.18 Disturbance or Removal for Access Areas. Disturbance, removal, or trimming of vegetation for equipment access and construction shall not exceed the limits approved by this Agreement.
- 2.19 Temporary Disturbance. The Permittee shall restore all areas within the reservoir temporarily impacted by construction, such as staging areas and temporary access areas. Temporary impact areas altered during the project and identified for restoration designated as DG-7-9, and DG-3B (see Exhibit E, Habitat Restoration Areas) shall be returned to natural contours without creating a possible future bank erosion problem.
- 2.20 Stockpiled Vegetation. Vegetation removed from the Initial Sediment Removal Area shall not be stockpiled in the low flow channel of the lake/stream. Any materials placed in seasonally dry portions of the lake/stream that may be washed downstream shall be removed from these areas prior to inundation by high flows. The sites selected on which to push this material out of the stream should be selected in compliance with the other provisions of this Agreement. Where possible, brush piles shall be left outside the channel in upland areas to provide wildlife habitat, except where rodent populations may be deemed a nuisance (e.g. near residential properties). Brush piles shall not be placed in areas that may impact sensitive floral resources or dormant seeds.
- 2.21 Demarcate Work Area Boundary. In consultation with the Designated Biologist, the Permittee or assignee shall demarcate the outer perimeter of the work area to prevent damage to adjacent habitat, and to provide visual orientation to its limits. Marking shall be in place during all periods

- of operation. All persons employed or otherwise working on the project site shall be instructed about the restrictions that the marking represents.
- 2.22 Non-native Vegetation. Permittee shall remove non-native vegetation from the work area and shall dispose of it in a legal manner; in all cases it shall be placed in a manner which prevents its reestablishment in the Waters of the State, and in such a manner so that it does not negatively affect other sensitive native habitat communities.
- 2.23 Staging and Storage Areas. Staging/storage areas for equipment and materials shall be located outside of the low flow channel of the stream/lake. Any materials placed in seasonally dry portions of a stream or lake that could be washed downstream or could be deleterious to aquatic life shall be removed from the project site prior to inundation by high flows.
- 2.24 Work Site Access. Access to the work site for Initial Sediment Removal shall be limited to two sites. One site is a new maintenance road to the east of the Reservoir accessed directly from Oak Grove Drive. The access road will allow for one-way traffic into the Reservoir. The second site is from the west via existing dirt access road from Oak Grove Drive which shall be modified to allow easy and safe access on and off site (see Exhibit A).
- 2.25 Fill and Spoil. Fill length, width, and height dimensions shall not exceed those of the original design/installation or the original naturally occurring topography, contour, and elevation. Fill shall be limited to the minimal amount necessary to accomplish the agreed activities. Except as otherwise specified in this Agreement, fill construction materials other than on-site alluvium, shall consist of clean silt-free gravel or river rock.
- 2.26 Cover Trenches and Other Hazards. All steep-walled trenches or excavations used during the project shall be covered at all times except when being actively used, to prevent entrapment of wildlife (e.g., reptiles and small mammals). If trenches cannot be covered, exclusion fencing shall be installed around the trench or excavation. Open trenches, or other excavations, shall be inspected by the Designated Biologist daily and immediately before backfilling.
- 2.27 Surface Water Diversion. In the event vehicles/equipment are to be driven/operated within the reservoir/stream when surface water inflow is present, the entire surface water flow shall be diverted around the work area. The Permittee shall notify CDFW of its intent to access the reservoir/stream and submit to CDFW for its review and approval a Surface Water Diversion Plan prior to diversion activities. This plan shall address, at a minimum, the location of upstream and downstream diversion points, access point to the reservoir/ stream, and method and duration of diversion. Construction of the barrier and/or the new channel shall normally begin in the downstream area and continue in an upstream direction, and the flow shall be diverted only when construction of the diversion is completed. Channel bank or barrier construction shall be adequate to prevent seepage into or from the work area. The enclosure and the supportive material shall be removed when the work is completed and removal shall normally proceed from downstream in an upstream direction.

- a. Continuous Flow. Surface Water Diversions shall be done in a manner that shall prevent pollution and/or siltation from Initial Sediment Removal Area and shall provide flows to downstream reaches. Flows to downstream reaches shall be provided during all times that the natural flow would have supported aquatic life. Said flows shall be sufficient quality and quantity, and of appropriate temperature to support fish and other aquatic life both above and below the diversion. Normal flows shall be restored to the affected stream immediately upon completion of work at that location.
- b. Temporary Dam. Any temporary dam or other artificial obstruction for Surface Water Diversion shall be built pursuant to FGC Section 5937, and only from materials such as clean gravel which will cause little or no siltation, and shall be approved by the CDFW prior to construction.

Pollution, Sedimentation, and Litter

- 2.28 Pollution and Litter Laws. The Permittee shall comply with all litter and pollution laws. All contractors, subcontractors and employees shall also obey these laws and it shall be the responsibility of the Permittee to insure compliance.
- 2.29 Trash Receptacles. Permittee shall install and use fully covered trash receptacles with secure lids (wildlife proof) to contain all food, food scrapes, food wrappers, beverage and other miscellaneous trash. Trash containers shall be emptied daily and removed from the project site when construction is complete.
- 2.30 Emergency Spill Response Plan Required. Permittee shall submit to CDFW an Emergency Spill Response Plan prior to the start of ground disturbance. The plan shall identify the actions that shall be taken in the event of a spill of petroleum products, or other material harmful to aquatic or plant life, and the identification and uses of emergency response materials.
- 2.31 Spill Containment. All activities performed in or near a stream shall have absorbent materials designated for spill containment and cleanup activities on-site for use in an accidental spill. If a spill occurs the Permittee shall immediately notify the California Emergency Management Agency at 1-800-852-7550 and immediately initiate the cleanup activities. CDFW shall also be notified by the Permittee and consulted regarding clean-up procedures.
- 2.32 Equipment and Vehicles. Any equipment or vehicles driven and/or operated within or adjacent to the stream/lake shall be checked and maintained daily, to prevent leaks of materials that if introduced to water could be deleterious to aquatic life.
- 2.33 Stationary Equipment. Stationary equipment such as motors, pumps, generators, and welders, located within or adjacent to the stream/lake shall be positioned over drip pans. Stationary heavy equipment shall have suitable containment to handle a catastrophic spill/leak. Clean up equipment such as extra boom, absorbent pads, skimmers, shall be on site prior to the start of construction.

- 2.34 Equipment Maintenance. No equipment maintenance shall be done within or near any stream channel or lake margin where petroleum products or other pollutants from the equipment may enter these areas under any flow.
- 2.35 Cement and Concrete. Cement and concrete shall not be poured within 150 feet of a stream during the rainy season. The Permittee shall monitor the 7-day forecast; cement or concrete materials may be poured only if a 7-day clear window is predicted. Cement shall not be poured in or near a flowing stream, to reduce the potential for significant adverse impacts to the stream, water, or biota.
- 2.36 Turbidity and Siltation. All equipment that enters the streambed or habitat associated with the stream shall be clean and dry. Upon CDFW determination that turbidity/siltation levels resulting from project-related activities constitute a threat to aquatic life, activities associated with the turbidity/siltation, shall be halted until effective CDFW approved control devices are installed, or abatement procedures are initiated.

Invasive Species

- 2.37 Prohibited Plant Species. Permittee shall not plant, seed or otherwise introduce invasive exotic plant species. Prohibited exotic plant species include those identified in the California Exotic Pest Plant Council's database, which is accessible at: <http://cal-ipc.org/paf/>.
- 2.38 Unlawful to Possess Dreissenid Mussels. Pursuant to California Code of Regulations (CCR) Title 14 Section 681 and FGC Section 2301 it is unlawful for any person to possess, import, ship, or transport in the state live or dead dreissenid mussels except as authorized in a permit issued by the CDFW. A Restricted Species Permit pursuant to CCR Title 14 Section 671.1 is required for the collection, possession, and/or research of live dreissenid mussels.
- 2.39 Clean Equipment Prior to Entering Area Regulated by Agreement. All Equipment shall be free of materials deleterious to aquatic life including noxious and nuisance weeds, aquatic invasive species, oil, grease, hydraulic fluid, soil and other debris. The Permittee or their designee shall follow equipment washing guidelines (see sub-measures below) and complete the Certification of Clean Equipment (see Exhibit D). The Certification of Clean Equipment shall be completed by the Permittee for all Equipment prior to project equipment initially entering areas regulated by this Agreement.
- a. Exemption for Haul Trucks. Permittee or designee shall ensure that all haul trucks (e.g. double-dump trucks with 18 cy capacity) comply with Condition 2.39 upon initial entry to areas regulated by this Agreement. Permittee shall ensure that all haul truck operators have received Education Program training (see Condition 2.15) and understand how to avoid contamination of haul truck and maintain truck free of materials deleterious to aquatic life including noxious and nuisance weeds, aquatic invasive species, oil, grease, hydraulic fluid, soil and other debris.
- b. Other Project Equipment. Except for trucks used for hauling sediment (see Condition

2.39a above) Permittee or designee shall require operators of equipment to Re-certify equipment upon reentry to Areas Regulated by this Agreement. Permittee or designee shall require operators of equipment subject to recertification that are reentering after contact with water and/or wet soil from a stream or lake in areas outside those regulated under this Agreement to follow equipment washing guidelines (see sub-measures below). If requested by CDFW the Permittee shall submit copies of the Certification of Clean Equipment by email to R5LSACompliance@wildlife.ca.gov.

c. Inspection of Project Equipment. Permittee shall inspect all vehicles, tools, waders and boots, and other project-related equipment and remove all visible soil/mud, plant materials, and animal remnants prior to initially entering Areas regulated by this Agreement, and upon Equipment Operator recertification following Decontamination.

d. Decontamination of Project Equipment. Permittee shall decontaminate all tools, waders and boots, vehicles, trailers, and other equipment that will be used in Areas regulated by this Agreement and make contact with water or wetted soils prior to initially entering and upon reentering with verification that subsequent decontamination is required with the following specific guidance. Permittee shall decontaminate project gear and equipment utilizing one of three methods: drying, using a hot water soak, or freezing, as appropriate to the type of gear or equipment. For all methods, Permittee shall begin the decontamination process by thoroughly scrubbing equipment, paying close attention to hard to reach and clean areas with a stiff-bristled brush to remove all plant, seeds, soil, and other organisms. To decontaminate by drying, Permittee shall allow equipment to dry thoroughly (i.e., until there is a complete absence of water and all plant, seeds, and soil), preferably in the sun, for a minimum of 48 hours. To decontaminate using a hot water soak, Permittee shall immerse equipment in 140°F or hotter water and soak for a minimum of 5 minutes. To decontaminate by freezing, Permittee shall place equipment in a freezer 32°F or colder for a minimum of 8 hours. Repeat decontamination is required only if the equipment/clothing is removed from the site, used in contact with water or wet soil within a different watershed, and returned to the project site.

e. Decontamination of Vehicles and Equipment. Permittee shall decontaminate vehicles and other project-related equipment too large to immerse in a hot water bath by pressure washing with hot water a minimum of 140°F at the point of contact or 155°F at the nozzle. Additionally, Permittee shall flush watercraft engines and all areas that could contain standing water (e.g., storage compartments) for a minimum of 10 minutes. Following the hot water wash, Permittee shall dry all vehicles, watercraft, and other large equipment as thoroughly as possible. Repeat Decontamination is required only if vehicles and/or equipment is removed from the site used in contact with water or wet soil within a different watershed, and returned to the project site.

f. Decontamination Sites. Permittee shall perform decontamination of vehicles, watercraft, and other project gear and equipment in a designated location where runoff can be contained and not allowed to pass into CDFW jurisdictional areas and other sensitive habitat areas. Cleaning of equipment may occur at a location that contains and recycles resulting waste water.

g. Notification of Invasive Species. Permittee shall notify CDFW immediately if an invasive species not previously known to occur within the project site is discovered during project activities by submitting a completed Suspect Invasive Species Report (available online at: <https://www.wildlife.ca.gov/Conservation/Invasives/Report>) and photos to the Invasive Species Program by email at: invasives@wildlife.ca.gov. Notification may also be provided by calling (866) 440-9530. Upon receiving notification, CDFW will provide Permittee with guidance for further action as appropriate to the species.

ROUTINE ANNUAL AND EPISODIC MAINTENANCE PROGRAM CONDITIONS

- 2.40 All Administrative Conditions Applicable. Under Routine and Episodic Maintenance Program all Conditions in Section 1.0 of this Agreement shall be complied with by Permittee.
- 2.41 Routine Annual and Episodic Maintenance. Permittee shall implement Routine Annual and Episodic Maintenance in conformance with the Project Description and the following Conditions in this Agreement. The Permittee shall remove all human generated debris, such as cuttings, garbage and trash. The Permittee shall remove washed out culverts, and other construction materials, that the Permittee places within, or where they may enter the stream. Routine Annual Maintenance activities shall be limited to the inspection, routine maintenance (e.g., fence repair, minor maintenance of access roads, graffiti removal, trash removal, weed abatement, etc.) sediment removal, and vegetation management (annually) within the approved Routine Annual Maintenance Area (40.80 acres) footprint. Vegetation may be mowed annually and when necessary for capacity reasons the root zone may be grubbed. Sediment removal may be implemented by: 1) sediment excavation and hauling off site; and 2) Flow-Assisted Sediment Transport (FAST). Episodic Maintenance within the 10.98 acre (horizontal projection) side slope area may include annual undesirable plant control (including herbicides, hand tools, and mechanically operated hand tools (e.g., chainsaws and motor powered winches), and in the event of a large debris flow or hyper concentrated flood sediment excavation/trucking off site. If additional major maintenance/repair work is required a separate Agreement is required for said repairs.
- 2.42 Work Period. Vegetation Management work shall be confined to September 15 to February 1 starting approximately in 2023 until 2037. The general days and hours of the week that Permittee should conduct Routine Annual Maintenance is Monday through Friday from 0700 to 1800 hours Standard Time (1900 hours during Daylight Savings Time), and on Saturday between 0800 to 1700 hours during Standard and Daylight Savings Time..

Biological Resources

- 2.43 Protected Species Defined. This Agreement does not authorize take, incidental or otherwise, of any protected species. For the purpose of this Agreement, "protected species" means the following: a species fully protected under state law; a species listed under the California Endangered Species Act (Fish & G. Code § 2050 et seq.) and/or Endangered Species Act (16 U.S.C. § 1531 et seq.), a species identified by CDFW as a species of special concern; or any other species for which take is prohibited under state or federal law.

- 2.44 CESA Protected Species Exception. This Agreement does not authorize take for least Bell's vireo, southwestern willow flycatcher, or other species protected by CESA. Prior to removing, trimming, brushing, or damaging vegetation in the stream zone in areas containing habitat suitable for CESA-listed species, the Permittee shall consult with CDFW in accordance with the procedures described in CESA (Fish & G. Code § 2080 et seq.). Minimization measures pertaining to least Bell's vireo and Southwestern willow flycatcher are addressed in CESA Incidental Take Permit number 2081-2016-031-05.
- 2.45 Protected Species Avoidance and Minimization Measures. The Permittee shall have a Designated Biologist survey the proposed work area to verify the presence or absence of protected species. The results of these surveys shall be provided to CDFW, along with copies of all field notes, prior to Routine Annual and/or Episodic Maintenance. The survey technique shall be approved by CDFW in writing. CDFW will provide written response within no more than 18 days of Permittee submittal. The biologist shall have all required permits.
- a. Protected Species Plan. The Permittee may utilize the previously approved Protected Species Plan (see Condition 2.10a) without subsequent approvals from CDFW. The Protected Species Plan may be updated at any time by CDFW or the Permittee with prior approval of CDFW. The Protected Species Plan shall be submitted to CDFW for its review and approval for the species listed in Table 1.0 below. Permittee shall receive written approval (email, letter, or fax) prior to Routine Annual Maintenance and/or Episodic Maintenance. The Permittee shall have the Designated Biologist on site daily when protected species may be present to ensure that no impacts occur to protected species that are not authorized.

Table 1.0: List of Protected Species to be addressed in Protected Species Plan.

Common name	Scientific name
slender-horned spineflower	(<i>Dodecahema leptoceras</i>)
two- striped garter snake	(<i>Thamnophis hammondi</i>)
coast range newt	(<i>Taricha tarosa tarosa</i>)
southwestern pond turtle	(<i>Actinemys marmorata</i>)
burrowing owl	(<i>Athene cunicularia</i>)
yellow warbler	(<i>Dendroica petechia</i>)
pallid bat	(<i>Antrozous pallidus</i>)
western mastiff bat	(<i>Eumops perotis californicus</i>)
western yellow bat	(<i>Lasiurus xanthinus</i>)
Coast patch-nosed snake	(<i>Salvadora hexalepis</i>)
southwestern willow flycatcher	(<i>Empidonax traillii extimus</i>)
Least Bell's vireo	(<i>Vireo bellii pusillus</i>)
Yellow-breasted chat	(<i>Icteria virens</i>)
Loggerhead shrike	(<i>Lanius ludovicianus</i>)

b. Dead or Injured Protected Species. Any dead or injured protected species found along roads or in project areas shall be reported to CDFW within 48 hours. The biologist shall report the location, cause of death, species found, and any other relevant information.

c. Seasonal and Other Restrictions. The Permittee shall not conduct any grading, excavation or other vegetation management activities within 1000 linear feet of least Bell's vireo or southwestern willow flycatcher habitat (see Exhibit C, LBVI suitable habitat) from March 1 through September 15th until consultation under Condition 2.44, is complete, and any take authorization is issued pursuant to FGC Section 2080 *et. seq.* Permittee may conduct project activities greater than 1000 linear feet of occupied or suitable protected species habitat from March 1 through September 15 until avoidance, minimization, and compensatory mitigation measures are authorized and distances prescribed in this Agreement are superseded. After any take authorization is issued all requirements, of this Condition 2.45c, shall be superseded by CESA Incidental Take Permit number 2081-2016-031-R5.

2.46 Nesting Birds.

a. To avoid impacts to nesting birds no vegetation management shall occur during February 1st through September 15th, the "restricted work period". Other Routine Annual and Episodic Maintenance authorized activities should not take place within areas regulated by this Agreement within the "restricted work period".

b. If avoidance of the restricted work period is not feasible, vegetation management and other authorized activities may occur between February 1st through September 15th if a Designated Biologist, approved by CDFW pursuant to Condition 1.8 conducts focused surveys for active nests within seven (7) days of the proposed activity, the final survey no more than 48 hours prior to work in the area. The study area shall extend into Suitable Habitat adjacent to construction limits.

c. The results of the survey shall be retained by the Permittee prior to any project activities in the form of a written report and shall include the following information:

- i. Dates of survey;
- ii. Total field time of survey efforts,
- iii. Map of survey routes, names of investigators; and,
- iv. Location of any active nests that were found.

d. If the survey identifies an active nest, a buffer shall be established between the construction activities and the active nest so that nesting activities are not interrupted. The buffer shall be delineated by temporary fencing if site conditions allow and does not create additional disturbance, and shall be in effect throughout construction or until the nest is no longer active.

e. The buffer shall be a minimum of 300 feet (500 feet for raptors) of a non-CESA/ESA listed nesting migratory bird nest, and 500 feet of a CESA/ESA listed bird nest. Reductions in the nest buffer distance may be appropriate depending on the avian species involved, ambient

levels of human activity, screening vegetation, or possibly other factors.

f. Absent a 300/500 foot no impact buffer, the Permittee shall prepare and submit to CDFW a Nesting Bird Management Plan that includes survey results and establishes the necessary buffers to avoid take of nest as defined in FGC 3503 and 3503.5, see Condition 4.9.

g. The Nesting Bird Management Plan design shall be based upon site conditions, project activities, and species present or likely to be present during all construction activities. The buffer(s) shall be determined based upon the life history of the individual species, species sensitivity to noise, vibration, and general disturbance, current site conditions (screening vegetation, terrain, etc.), ambient levels of human activity, the various project-related activities necessary to construct the project, and other features.

h. Permittee, or any person acting on behalf of Permittee, is not relieved from complying with FGC sections 3503 (bird nests and eggs) and 3503.5 (birds of prey).

- 2.47 Notification to the California Natural Diversity Database. If any Protected Species are observed in project surveys, the Designated Biologist shall have responsibility to submit a California Native Species Field Survey Form and survey map to be submitted to the Natural Diversity Database within 5 working days of the sightings. The form and instructions for completing and submitting the form are available online at <https://www.wildlife.ca.gov/Data/CNDDDB/Submitting-Data>.
- 2.48 Leave Wildlife Unharmed. If any Protected Species (see Condition 2.43) are encountered and do not passively relocate, the Permittee shall contact CDFW immediately or proceed as described in Incidental Take Permits or Protected Species Plan that may authorize impacts or relocation (see Condition 2.45a). To greatest extent practicable, if any non-protected wildlife is encountered during the course of project (as defined in Project Description), said wildlife shall be allowed to leave the construction area unharmed including relocation by a Designated Biologist.
- a. Minimization of Stranding During Reservoir Draining. Once Permanent Maintenance Program is initiated (i.e. all Initial Sediment Removal is completed), and at the end of the storm season (October 1- April 15), any pool of surface water behind the dam should be released downstream at a rate such that the water elevation within the reservoir should be gradually reduced over a 30-45 day period, if feasible. This requirement shall not apply during periods when Dam operation is necessary to regulate flows to prevent downstream flooding.
- 2.49 Bypass Flow Required. When conducting activities authorized by this Agreement the Permittee shall allow sufficient water at all times to bypass dam to downstream reaches to maintain aquatic life below the Dam. This bypass requirement shall not apply during periods when Dam operation is necessary to regulate flows to prevent downstream flooding. If Permittee desires a change in the operation of the Dam from the abovementioned operation, then Permittee shall request and receive an approved amendment to this Agreement.

- 2.50 Limitations on Authorization for Water Use. This agreement does not authorize any diversion or use of water. All facilities that the Permittee owns, operates, or controls shall be operated and maintained in accordance with current law and applicable water rights.
- 2.51 Project Lighting. Lighting required for project activities shall not illuminate adjacent suitable vegetation. Light fixtures near streams shall incorporate shields to direct light away from Suitable Habitat.

Pollution, Sedimentation, and Litter

- 2.52 Conditional Work during Rainfall Event. No excavation work shall occur during an anticipated rainfall event. For purposes of this Agreement, "rainfall event" means events producing more than ¼ inch per 24 hour period. No excavation work shall occur during a dry-out period of 24 hours after a rainfall event. Permittee shall monitor the National Weather Service (NWS) 72-hr forecast for the project area. All erosion control measures shall be initiated prior to all rainfall events.
- 2.53 Spill Containment. All activities performed in or near a stream shall have absorbent materials designated for spill containment and cleanup activities on-site for use in an accidental spill. If a spill occurs the Permittee shall immediately notify the California Emergency Management Agency at 1-800-852-7550 and immediately initiate the cleanup activities. CDFW shall also be notified by the Permittee and consulted regarding clean-up procedures.
- 2.54 Pollution and Litter Laws. The Permittee shall comply with all litter and pollution laws. All contractors, subcontractors and employees shall also obey these laws and it shall be the responsibility of the Permittee to insure compliance.
- 2.55 Staging and Storage Areas. Staging/storage areas for equipment and materials shall be located outside of the low flow channel of the stream/lake. Any materials placed in seasonally dry portions of a stream or lake that could be washed downstream or could be deleterious to aquatic life shall be removed from the project site prior to inundation by high flows.
- 2.56 Discharge of Silty/Turbid Water Prohibited. To extent practicable, silty/turbid water resulting from maintenance activities shall not be discharged into the stream or into storm drains. Such water shall be sufficiently settled to avoid substantial adverse impacts to aquatic life prior to discharge below Dam into the stream channel. Upon CDFW determination that turbidity/siltation levels resulting from maintenance activities are in excess of existing conditions prior to maintenance at the time and constitute a threat to aquatic life, activities associated with the turbidity/siltation shall be halted until effective CDFW approved control devices are installed or abatement procedures are initiated.
- 2.57 Surface Water Diversion. In the event vehicles/equipment are to be driven/operated within the reservoir/stream when surface water inflow is present, the entire surface water flow shall be diverted around the work area. The Permittee shall notify CDFW of its intent to access the reservoir/stream and submit to CDFW for its review and approval a Surface Water Diversion

Plan prior to diversion activities. This plan shall address, at a minimum, the location of upstream and downstream diversion points, access point to the reservoir/ stream, and method and duration of diversion. Construction of the barrier and/or the new channel shall normally begin in the downstream area and continue in an upstream direction, and the flow shall be diverted only when construction of the diversion is completed. Channel bank or barrier construction shall be adequate to prevent seepage into or from the work area. The enclosure and the supportive material shall be removed when the work is completed and removal shall normally proceed from downstream in an upstream direction.

- 2.58 Maintenance of Access Roads. The Permittee may remove herbaceous vegetation, fallen trees, and branches from approved access roads. Permittee should conduct maintenance of access roads between September 15th and February 1st, and may conduct maintenance of access roads between July 1st and September 15th if Permittee implements measures in the Nesting Bird Management Plan (see Condition 4.9). Minor pruning of trees and brush interfering with vehicle access and/or growing into access roads is also acceptable.
- 2.59 Repair of Slopes within Permanent Maintenance Area. The Permittee may repair damage to slopes within Routine Annual Maintenance Area. Fills needed to repair slopes shall not extend beyond the dimensions that existed prior to needing repair. Fills shall consist of on-site alluvium containing clean sand and rock. Repair work shall be accomplished with minimum amount of disturbance to slope that existed prior to needing repair. New sites requiring bank protection, expansions in the size of protected sites, or changes in the materials to be used, are not covered by this Agreement. This Condition does not address repairs to Episodic Maintenance Area. Repairs to Episodic Maintenance Area slopes shall be in accordance with Project Description in response to a large debris flow or hyper concentrated flood. Repairs to slopes in Routine Annual Maintenance Area or Episodic Maintenance Area not specifically described in this Agreement shall be subject to a separate notification and Agreement.
- 2.60 Vegetation Management and Sediment Removal. Except as otherwise permitted in this Agreement, the removal of sediment, vegetation, and vegetative debris from the Permanent Maintenance Area is prohibited. The Permittee may remove all human generated debris, such as vegetative cuttings, garbage and trash.
- 2.61 On-going Maintenance of Mitigation Site. The on-site Habitat Restoration and Episodic Maintenance Areas shall be maintained by the Permittee for the benefit of wildlife throughout the life of the project. The Permittee shall not remove or trim native vegetation except to the extent required by Habitat Restoration and Management Plans (see Condition 4.1). Native vegetation within on-site Habitat Restoration or Episodic Maintenance Areas shall not be trimmed or removed for purposes of aesthetics or recreational access. Except as otherwise permitted in this Agreement, any trimming or removal of native vegetation shall be subject to the Permittee obtaining a separate Streambed Alteration Agreement.
- 2.62 Rodenticides. The Permittee or its assignee shall not apply rodenticides without CDFW approval to areas regulated by this Agreement. Permittee may propose an Integrated Pest Management Plan for the CDFW review and approval.

- 2.63 Herbicide Approved for Use Near Water. The Permittee shall only use an herbicide approved for use in an aquatic environment. Great care shall be taken to avoid contact with any native vegetation, and it shall only be applied on calm days (wind less than 5 miles per hour) to prevent airborne transfer of herbicide. No herbicides shall be used where Threatened or Endangered species would be directly exposed to liquid solution. Herbicide mixing sites shall only be located at existing road sites outside of the stream. All removed vegetation shall be disposed of properly, outside the flood plain. Spoil sites of Arundo or other exotic species shall not be located within a flowing stream or where it will cover aquatic or riparian vegetation.
- a. Adjuvants. Only adjuvants and non-ionic surfactants registered for aquatic use shall be used. Non-ionic surfactants containing Nonylphenol (NP) and nonylphenol ethoxylates (NPEs) shall not be used.
- b. Pre-emergent Herbicide. Permittee shall not use pre-emergent herbicide without prior written approval by CDFW. Permittee may propose method and species targeted for pre-emergent herbicide use within an Integrated Pest Management Plan (see also Condition 4.13) or if approved as part of Habitat Management Plan (see Condition 4.1) approved in writing by CDFW.
- c. Herbicide Spray Dye. Permittee shall ensure all herbicide sprays utilized within and within 25 feet of CDFW jurisdictional waters and sensitive habitat areas contain a dye (registered for aquatic use by California Department of Pesticide Regulation (CDPR) to prevent overspray.
- d. Pest Control Advisor Recommendation. CDFW recommends Permittee obtain a Pest Control Advisor's (PCA) recommendation and register it with the County Agricultural Commissioner where application will occur prior to applying herbicide in streambed areas. The Permittee may have additional requirements or recommendations necessary for application on municipal/government property and Permittee shall supply CDFW with written notifications or copies of paperwork required by other local, State, or Federal agencies related to pesticide use.
- e. Herbicide Use in Conformance with Applicable Laws. Nothing in this Agreement represents a PCA recommendation that allows for an action that conflicts with herbicide use regulations. All herbicide use conditions for mixing, application and clean-up shall conform to all applicable Federal, State, and local regulations. Any application of herbicide shall be done by a licensed or certified applicator in accordance with all applicable, federal, state, and local laws.
- f. Pesticide Use Bordering Anadromous Fish Supporting Waters. The Arroyo Seco is considered an anadromous fish supporting water according to current law.⁴ The Permittee shall

⁴ The 9th District Court Order for *Washington Toxics Coalition, et al v EPA*, establishes pesticide buffer zones adjacent to anadromous fish supporting waters in Washing, Oregon, and California. For more info on this, see <http://www.epa.gov/oppfead1/endanger/litstatus/final-4th-biop.pdf> or http://www.cdpr.ca.gov/docs/endspec/espdfs/Buffers_Website_Info.pdf. The Permittee may confirm the locations of anadromous fish supporting waters, pesticide use limitations, and buffers zones via the internet at <http://www2.epa.gov/endangered-species/salmon-mapper>.

observe the no-spray buffer zones for pesticides with active ingredients listed below, subject to update, in Table 2.0 near anadromous fish supporting waters. The Permittee shall confirm the list of prohibited active ingredients and ensure that pesticide use conditions are consistent with the law. The no-spray buffers for ground application shall be no less than 20 yards and 100 yards for aerial application of the following pesticides, or as subsequently amended.

Table 2.0. *List of Prohibited Active Ingredients within buffer zones as of the date of execution of this Agreement.*

carbaryl	1,3-dichloropropene
chlorpyrifos	bromoxynil
diazinon	metolachlor
malathion	prometryn
methomyl	

INVASIVE SPECIES

2.64 Unlawful to Possess Dreissenid Mussels. Pursuant to California Code of Regulations (CCR) Title 14 Section 681 and FGC 2301 it is unlawful for any person to possess, import, ship, or transport in the state live or dead dreissenid mussels except as authorized in a permit issued by the CDFW. A Restricted Species Permit pursuant to CCR Title 14 Section 671.1 is required for the collection, possession, and/or research of live dreissenid mussels.

2.65 Invasive Species Education Program.

- a. Permittee shall conduct an Invasive Species Education Program for all persons working within the project site prior to the commencement of any project maintenance activities. Additionally, this instruction shall be included for any new workers starting work after initial commencement of project maintenance activities prior to their performing any work within the project site.
- b. The program shall consist of a presentation from a Designated Biologist, pursuant to noticing and review process in Condition 1.8 that includes a discussion of the invasive species currently present within the project site as well as those that may pose a threat to or have the potential to invade the project site. The discussion shall include a physical description of each species and information regarding their habitat preferences, local and statewide distribution, modes of dispersal, and impacts.
- c. The program shall also include a discussion of BMPs to be implemented at the project site to avoid the introduction and spread of invasive species into and out of the project site. Permittee shall provide a translator for non-English speaking on-site workers, if necessary.
- d. The program shall be repeated annually for projects extending more than one year. Copies of program materials shall be maintained at the project site for workers to reference as needed. For this requirement an electronic copy of the program materials shall suffice.

- 2.66 Invasive Aquatic Species. Permittee shall conduct project activities in a manner that prevents the introduction, transfer, and spread of invasive species, including plants, animals, and microbes (e.g., algae, fungi, parasites, bacteria, etc.), from one project site and/or watershed to another. Prevention BMPs and guidelines for invasive plants can be found on the California Invasive Plant Council's website at: <http://www.cal-ipc.org/ip/prevention/index.php> and for invasive mussels and aquatic species can be found at the Stop Aquatic Hitchhikers website: <http://www.protectyourwaters.net/>.
- 2.67 Inspection of Project Equipment. Permittee or Permittee's appointee shall inspect all vehicles, tools, waders and boots, and other project-related equipment and remove all visible soil/mud, plant materials, and animal remnants prior to entering and exiting areas regulated by this Agreement or upon initial entry into the Upper Los Angeles River Watershed (designated by boundaries as represented in the Watershed Boundary Dataset (WBD) included with the California-statewide National Hydrography Dataset (NHD) for Hydrologic Unit Codes 10 (HUC-10)) and pursuant to sub-conditions below:
- a. Permittee may choose to implement a quarantine by watershed (designated by Upper Los Angeles River Watershed in Exhibit F) of all vehicles, tools, waders and boots, and other project-related equipment that move among stream/riparian areas where decontamination is not necessary, pursuant to Agreement Conditions and Exhibit F. All vehicles, tools, waders and boots, and other project-related equipment maintained in accordance to quarantine may be transported and used between Reaches designated as "low" risk, areas regulated by this Agreement, and within the same watershed without decontamination pursuant to this Agreement Conditions 2.68 through 2.70 between sites. Permittee would not be relieved from compliance with Agreement Condition 2.66 if implementing this Condition. The Permittee shall implement this condition through:
 - b. Permittee shall propose a quarantine plan for CDFW review and approval for documenting chain of custody. The purpose of quarantine plan is to document methods and materials for all vehicles, tools, waders and boots, and other project-related equipment proposed for temporary or permanent use in quarantine areas in accordance with Agreement Condition 2.67 *et seq.* AND;
 - c. Permittee shall perform initial decontamination and make written record of decontamination by methods in Conditions 2.68, 2.69, and 2.70 of all the vehicles, tools, waders and boots, and other project-related equipment. This documentation shall be made available to CDFW upon request AND;

d. Subsequent to initial decontamination, upon entry to watershed, all the vehicles, tools, waders and boots, and other project-related equipment used within wetted areas and wetted soils shall remain continuously within the same watershed (designated by Exhibit F) and in reaches designated as low risk (see Exhibit F Table 1.0). Exhibit F Table 1.0 designates risk under column "Aquatic Invasive Species Risk".

Permittee shall not implement Condition 2.67 *et. seq.* without prior approval by CDFW.

2.68 Decontamination of Project Equipment. Permittee shall decontaminate all tools, waders and boots, and other equipment that will enter the streambed and make contact with water or wetted soils prior to entering and when designated after exiting in areas regulated by this Agreement.

If equipment is operating to avoid contact with water or wetted soils, then it is otherwise permissible to conduct the work without specialized decontamination procedures for aquatic invasive animal species (Conditioned in this Agreement), but such activities would need to be in compliance with other Conditions of this Agreement and any other federal, state, or local laws or ordinances. For example, general conditions in the existing Agreement to make sure visible dirt, mud, and plant materials are removed from equipment prior to entering the stream, but don't require the specialized thermal, freezing, and/or drying methods developed for aquatic invasive animal species.

If decontamination for aquatic invasive animal species is applicable, Permittee shall decontaminate project gear and equipment, as appropriate to the type, utilizing one of the following four methods:

a. Drying. Permittee shall allow equipment to dry thoroughly and verify there is a complete absence of water on equipment and all sources of standing water in the equipment. Permittee shall dry all equipment for a minimum of either 48 hours, preferably in the sun, or minimum calculated dry time using "Dry Time Estimator" accessible at <http://www.100thmeridian.org/Emersion.asp> using whichever time period is greater. These guidelines provide a minimum quarantine time that Permittee may need to adjust upward if situation includes additional contributing factors (e.g., humidity, exposure, wind).

b. Hot Water Soak. Permittee shall immerse equipment in 140° F or hotter water and soak for a minimum of five (5) minutes;

c. Hot Water Wash. Decontaminate project-related tools and vehicles by pressure washing with hot water at a minimum of 140°F at the point of contact or 155°F at the nozzle; or,

d. Freezing. Permittee shall place equipment in a freezer 32°F or colder for a minimum of 8 hours.

For all methods, Permittee shall begin the decontamination process by thoroughly scrubbing equipment, paying close attention to small crevices such as boot laces, seams, net corners, etc., with a stiff-bristled brush to remove all organisms. Repeat decontamination is required only if the

equipment/clothing is removed from the site, used within a different watersheds, and returned to the project site.

2.69 Decontamination of Equipment. If decontamination for aquatic invasive animal species is applicable and Permittee finds it infeasible to use one of the methods identified above in Condition 2.68 Permittee shall:

- a. Decontaminate vehicles and other project-related equipment too large to immerse in a hot water bath by pressure washing with hot water a minimum of 140°F at the point of contact or 155°F at the nozzle.
- b. Permittee shall flush equipment engines and all areas that could contain standing water (e.g. storage compartments) for a minimum of ten (10) minutes.
- c. Dry all vehicles, watercraft, and other large equipment as thoroughly as possible, following the hot water wash.

2.70 Decontamination of Vehicles. If decontamination for aquatic invasive animal species is applicable and Permittee finds it infeasible to use one of the methods identified above in Condition 2.68, Permittee shall:

- a. Decontaminate vehicles by pressure washing with hot water at a minimum of 140°F at the point of contact or 155°F at the nozzle;
- b. Flush all areas that could contain standing water (e.g. storage compartments) for a minimum of 10 minutes;
- c. Vehicles decontaminated by pressure washing shall be dried as thoroughly as possible, following the hot water wash; or,
- d. In lieu of 2.70 (a) or (b) the Permittee may take the vehicles to a car wash for washing and decontamination. Permittee shall dry all vehicles for a minimum of either 48 hours, preferably in the sun, or minimum calculated dry time using "Dry Time Estimator" accessible at www.100thmeridian.org/Emersion.asp using whichever time period is greater.

2.71 Decontamination Sites. If decontamination for aquatic invasive animal species is applicable, Permittee shall perform decontamination of vehicles, watercraft, and other project gear and equipment in a designated location where runoff can be contained and not allowed to pass into CDFW jurisdictional areas and other sensitive habitat areas.

2.72 Notification of Invasive Species. Permittee shall notify CDFW immediately if an invasive species not previously known to occur within the project site is discovered during project activities by one of the following methods:

- a. Email the CDFW Invasive Species Program at invasives@wildlife.ca.gov including

photos and a completed Suspect Invasive Species Report (available online at: <https://www.wildlife.ca.gov/Conservation/Invasives/Report>),

b. Telephone by calling_(866) 440-9530; or,

Upon receiving notification, CDFW will provide Permittee with guidance for further action as appropriate to the species.

3. Compensatory Measures

To compensate for adverse impacts to fish and wildlife resources identified above that cannot be avoided or minimized, Permittee shall implement each measure listed below.

3.1 Mitigation for Permanent Impacts. The Permittee shall mitigate the permanent impacts at a location and in a manner to be approved by CDFW. The Permittee has a total Compensatory Mitigation Requirement outlined in Table 3.0. The Permittee has proposed compensatory mitigation to partially mitigate the permanent impacts with restoration of habitats bordering the Permanent Maintenance Area and within Hahamonga Watershed Park. The Permittee shall propose an off site compensatory mitigation plan for an additional 25.6 acres of native habitats. The remaining 25.6 acres should consist of the creation of willow and mulefat thickets (composing approximately 50-93% of the site) and alluvial shrubland. Any remaining acres of compensatory mitigation may be in the form of restoration and may be composed of riparian herbaceous habitats associated with intermittently or seasonally flooded ponds, wetlands, seeps, swales, or margins of riparian areas. In lieu of the restoration, or creation CDFW may consider enhancement and/or preservation of habitat classifications for a larger area.

Table 3.0 Compensatory Mitigation [Permanent] Requirements for Creation and Restoration

IMPACTS TO VEGETATION COMMUNITIES	COMPENSATORY MITIGATION REQUIREMENT			
	PERMANENT IMPACTS	Creation	Restoration	Total
<i>Salix gooddingii</i> Woodland Alliance	16.27	16.27	22.31	38.58
<i>Baccharis salicifolia</i> Shrubland Alliance	8.03	8.03	4.83	12.86
<i>Lepidospartum squamatum</i> Shrubland Alliance	1.82	1.82	7.28	9.1
<i>Artemisia californica</i> – <i>Eriogonum fasciculatum</i> Shrubland Alliance	0.02	0.02	0.04	0.06
<i>Conium maculatum</i> Herbaceous Semi-Natural Alliance*	2.45	0.00	1.23	1.23
<i>Lepidium latifolium</i> – <i>Conium maculatum</i> Herbaceous Semi-Natural Alliance*	9.88	0.00	4.94	4.94
<i>Xanthium strumarium</i> Herbaceous Alliance (Unofficial Alliance)	1.00	0.00	1.50	1.50
Disturbed/Developed	1.33	0.00	0.00	0.00
TOTAL COMPENSATORY MITIGATION REQUIRED		26.14	42.13	68.27
TOTAL PERMANENT IMPACTS	40.80			

* *Conium maculatum* Herbaceous Semi-Natural Alliance and *Lepidium latifolium* – *Conium*

maculatum Herbaceous Semi-Natural Alliance are considered non-native plants and restoration designated in Table 3.0 (above) is proposed with California native plants.

- 3.2 Mitigation for Temporary Impacts. The total of 27.83 acres of temporary impacts, described in detail in the Project Description, shall be established and maintained pursuant to the following requirements:
- a. The Permittee shall mitigate the temporary impacts to 16.85 acres of vegetation and habitat communities located in restoration areas designated (DG3B, DG 7, DG 8, DG 9, See Exhibit E) by delaying impacts to temporary impact areas until 3rd year of sediment removal project and implement restoration pursuant to Habitat Restoration Plan (see Condition 3.9, below) with 24 months of impacts (see Condition 3.5), and maintained pursuant to Habitat Management Plan (see Condition 3.10).
 - b. The 10.98 acre (horizontal projection, see Exhibit B) Episodic Maintenance Area will include initially planting with appropriate native plants and thereafter annual undesirable plant control (including herbicides, hand tools, and mechanically operated hand tools (i.e., chainsaws and motor powered winches), and in the event of a large debris flow or hyper concentrated flood Episodic Maintenance would involve the need for sediment excavation/trucking off site. After Episodic Maintenance the side slopes would be returned to proposed 3:1(V:H) grade, and the 10 98 acre area will be subject to the continuing annual undesirable plant control.
- 3.3 Conceptual Off-site Mitigation Package. The Permittee shall submit to CDFW for its review and approval a Conceptual Off-site Mitigation Package prior to Project Start. Prior to initiation of any vegetation or ground disturbing project activities a final mitigation package shall receive written approval by CDFW, and Permittee shall request an amendment of this Agreement to incorporate the specific location(s), amount of acreage, and existing and proposed vegetation communities to be restored from final mitigation package. The Conceptual Off-site Mitigation Package shall include adequate information for each proposed site for CDFW to evaluate it's suitability as compensatory mitigation for project impacts. The Permittee shall develop the mitigation proposal, including the entity (e g , the Santa Monica Mountains Conservancy or The Nature Conservancy) to maintain the site in perpetuity and submit to CDFW for approval. The acquisition/restoration site(s) and acreages shall be within the Los Angeles River watershed and be approved by CDFW. The mitigation site shall be consistent with the stream and vegetation communities lost on the subject project site as a result of the Permittee's project-related activities.
- 3.4 Establish Permanent Cross-Section. Permittee shall establish single cross section, established by monument, at upstream limit of Permanent Maintenance Area to document condition and be comparable over time. The annual monitoring of cross section should be conducted immediately following the high flow season and include the physical measurements of the site, photos from a fixed photographic station, and if applicable results from interviews with local persons, Permittee, or Permittee's assignees that had important observations. The cross-section and photographic station shall be monitored and reported to CDFW according to the following sub-measures.

- a. Initial Monitoring. Permittee shall monitor cross section annually for the first 5 years following Initial Sediment Removal, estimated at 2.4 mcy plus any additional annual deposits, and as soon as feasible after the first major high flow event. If major high flow event occurs in the first 5 years of monitoring then frequency of future monitoring will be adjusted by CDFW based on consultation with Permittee. Monitoring frequency adjustments shall be based on results of annual monitoring and high flow observations.
 - b. Long-term Monitoring. Permittee shall monitor cross section every once every 5 years and immediately after a major high flow event for the duration of this Agreement.
- 3.5 Restoration of temporary impacts. The Permittee shall restore temporary impacts specified in Condition 3.2 within 24 months of initial vegetation removal in temporary impact areas, and initiate restoration planting or seeding during appropriate seasonal time frame to maximize growth and survival. If after 24 months restoration has not occurred, and CDFW determines that the delay has a substantial adverse effect, CDFW shall require additional mitigation to address the extent, severity, and duration of new impacts to fish and wildlife resources.
- 3.6 Financial Security. Prior to Project Start the Permittee shall establish in favor of CDFW an Original Security, in an estimated principal sum sufficient to pay for the cost of the Permittee's mitigation obligations under this Agreement. Any revisions to the Original Security by the Permittee shall be conducted according to Condition 3.8. After CDFW approves the Original Security, then the Permittee shall prepare a draft Security and submit it to CDFW for its written approval. The Security shall allow CDFW to immediately draw on the Security if CDFW determines in its sole discretion that the Permittee has failed to meet its mitigation obligations.
- 3.7 Approval of Financial Security. After CDFW approves the draft Original Security, it will notify the Permittee, after which the Permittee may finalize and execute the Security. Upon receipt of the Original Security in the principal sum in the form approved by CDFW, CDFW shall notify the Permittee that it may begin the project, provided the Permittee has complied with any other pre-project requirements specified in this Agreement.
- 3.8 Renewal or Replacement of Security. If the Permittee has not met its mitigation obligations within 60 days prior to the Security's expiration date, the Permittee shall confirm with the institution holding the funds that the expiration date will be extended. If the bank elects not to extend the expiration date, the Permittee shall establish a new Security to replace the original in the same principal sum, unless CDFW agrees otherwise. The new Security shall be subject to CDFW's approval following the same procedure described above. The Permittee shall have in place a Security at all time until Permittee receives CDFW written approval it has met its mitigation obligation.
 - a. Upon CDFW's written request the Permittee shall revise the Original Security within 60 days. The Permittee may request revisions to Original Security to account for refined estimated costs from Final Conceptual Off-site Mitigation Package, Habitat Restoration Plan, and Habitat Management Plan, once approved by CDFW. Any revisions to the Original Security by the Permittee shall require a written request explaining the need for revision, a revised cost

estimate, and CDFW's written approval. After CDFW approves revisions to the Original Security, then the Permittee shall prepare a revised draft Security and submit it to CDFW for its written approval pursuant to Condition 3.6.

- 3.9 Habitat Restoration Plan. The Permittee shall submit to CDFW a Habitat Restoration Plan prior to Initial Vegetation Removal. Permittee shall not conduct Initial Vegetation Removal until Habitat Restoration Plan receives CDFW written approval. This plan shall address all temporarily impacted areas within the Initial Sediment Removal Area and on-site compensatory mitigation project areas. Restoration involves planting seed and/or container stock, and maintaining (i.e., weeding, replacement planting, supplemental watering, etc.) and monitoring the restored area for a period of five years (or less if the restoration meets all success criteria). The plan shall include, at a minimum: 1) recontouring the land, 2) measures to alleviate soil compaction; 3) pitting or imprinting the surface to allow small areas where seeds and rain water can be captured, hydroseeding, and hand-broadcasting seed (where appropriate); 4) the native plant species to be used, container sizes, and seeding rates; 5) collection, storage and replacement of the topsoil (if it was collected); 6) seed collection procedures and permits needed; 7) planting schedule, 8) a description of the irrigation methodology; 9) measures to control non-native or nuisance vegetation and non-native invasive animals on site; 10) specific success criteria, 11) a detailed monitoring program including Adaptive Management Program; 12) contingency measures should the success criteria not be met; and 13) identification of the party responsible for meeting the success criteria and providing for restoration.
- 3.10 Habitat Management Plan. The Permittee shall submit to CDFW for its review and approval a Habitat Management Plan. This plan shall address both on-site and off-site mitigation properties, that includes: 1) legal description of all parcels, a location map, and a plat map showing easements 2) management specifications, 3) baseline biological and hydrology data for all parcels, 4) designation of land management entity, 5) a Property Analysis Record, or equivalent, with assumptions specified, and 6) designation of responsible parties, and the entity or entities identified to hold and manage the land in perpetuity. The management specification shall provide: 1) information on public uses and facilities and operations found on the property; 2) CEQA documentation for any management practices or activities which are not exempt; 3) avoidance measures under CESA for any state-listed species found on the property; 4) a complete description of the management goals needed to protect, enhance, manage and conserve the habitat values for which the property was acquired which includes long-term as well as immediate management goals ; 5) Adaptive Management Program (e.g. include monitoring for non-native and invasive animals to determine when and what control measures should be implemented); 6) general operations and maintenance staffing and equipment and associated costs; 7) start-up or infrastructure costs; 8) management constraints (physical or political); 9) acceptable public uses; 10) anticipated public use or natural resource conflicts; and 11) document any additional agreements, memoranda of understanding, Department internal coordination for state listed species or Section 7 consultations under the federal Endangered Species Act, or cooperative management agreements.

4. Reporting Measures

Permittee shall meet each reporting requirement described below.

- 4.1 Habitat Restoration and Management Plans. The Permittee shall submit a draft Habitat Restoration and draft Habitat Management Plan, as described in Conditions 3.9 and 3.10 above, to CDFW for review and written approval prior to Initial Vegetation Removal. CDFW will provide written response within 20 days of Permittee submittal. The Permittee shall not proceed with Initial Vegetation Removal until receiving written approval of Final Habitat Restoration and Habitat Management Plans by CDFW.
- 4.2 Mitigation Monitoring Report. The Permittee shall provide a Mitigation Monitoring Report to CDFW every (4) four years in accordance with FGC section 1605(g), with the first (4) four-year period beginning on the effective date of this Agreement. Upon receipt of the Mitigation Monitoring Report, CDFW shall comply with the provisions of FGC §1605(g)(3). If the Permittee fails to provide timely Mitigation Monitoring Reports as required by this Agreement and FGC Section 1605(g), CDFW may suspend or revoke this Agreement. The Mitigation Monitoring Report shall be delivered to CDFW no later than 90 days prior to the end of each (4) four-year period, and shall include all of the following:
 - a. A copy of the original Agreement;
 - b. The status of the activities covered by this Agreement;
 - c. An evaluation of the success or failure of the measures in this Agreement to protect the fish and wildlife resources that the activities may substantially adversely affect; and,
 - d. A discussion of any factors that could increase the predicted adverse impacts on fish and wildlife resources, and a description of the resources that may be adversely affected;
- 4.3 Mitigation Proposal. The Permittee shall submit a Conceptual Mitigation Package as described in Condition 3.3 above to CDFW for review within 60 days of execution of this Agreement. CDFW will provide written response within 30 days of Permittee submittal. The final Mitigation Package shall receive written approval by CDFW prior to Project Start.
- 4.4 Initial Sediment Removal Area Site As-Built Report. The Permittee shall submit a report to CDFW within 60 days of completion of final site preparation and planting, acknowledging the completion of the installation phase and documenting the as-built status of the area subject to temporary impact and project restoration. The report shall include a plan or map diagram showing the restored area and the final as-built locations of structural improvement listed in Project Description. Photographs from representative vantage points shall also be included to document the final site conditions.
- 4.5 Mitigation Site As-Built Report. The Permittee shall submit a Mitigation Site As-Built Report to CDFW within 60 days of completion of the Habitat Restoration Plan installation phase. The report shall include a plan or map diagram showing the restored area and the final as-built

locations of structural improvement listed in Project Description. Photographs from representative vantage points shall also be included to document the final site conditions

- 4.6 List of Designated Biologists. The Permittee shall submit a proposed list of Designated Biologists to CDFW for review 60 days prior to Project Start (see Condition 1.8). CDFW will provide written response within 18 days of Permittee submittal, unless otherwise agreed to by CDFW in writing (email, letter, fax). The Permittee may utilize any of the Designated Biologists with the appropriate qualifications from the approved list without subsequent approvals from CDFW. The list may be updated at any time by CDFW or the Permittee with the prior approval of CDFW.
- 4.7 Inventory of Native Oaks. The Permittee shall submit an Inventory of Native Oak Trees to CDFW for review within 90 days prior to Project Start. CDFW will provide written response within 18 days of Permittee submittal, unless otherwise agreed to by CDFW in writing (email, letter, fax). The inventory shall identify oak trees by species with Diameter at Breast Height over 3" (DBH) that will be directly removed or have root protection zone impacted as described in Condition 2.11.
- 4.8 Oak Tree Reports. The Permittee shall submit an Oak Tree Report to CDFW annually for 5 years with an additional report at years 7 and 10 for native oaks after encroachment in root protective zone (see Condition 2.11 above) or restoration/planting. This report shall cover the monitoring of existing native oaks after encroachment and creation, enhancement, and the revegetation of native oaks, and shall include the survival, % cover, and height of both tree and shrub species. The number by species of plants replaced, an overview of the revegetation effort, and the method used to assess these parameters shall also be included. Photos from designated photo stations shall be included.
- 4.9 Nesting Bird Management Plan. If necessary, the Permittee shall submit a Nesting Bird Management Plan to CDFW for Project activities that may occur between February 1st through September 15th as described in Conditions 2.12, 2.13, and 2.46. The plan shall include survey results and establish the necessary buffers to avoid take of nests as defined in FGC Sections 3503 and 3503.5. The Nesting Bird Management Plan shall be submitted to CDFW prior to any work between February 15th through September 15th.
- 4.10 Protected Species Plan. The Permittee shall submit a Protected Species Plan as described in Condition 2.10a to CDFW for review 60 days prior to the proposed Project Start. CDFW will provide written response within 18 days of Permittee submittal. The final Protected Species Plan shall receive written approval by CDFW prior to ground disturbing activities.
- 4.11 Surface Water Diversion Plan. If necessary, the Permittee shall submit a Surface Water Diversion Plan to CDFW for review as described in Condition 2.27. The plan shall be consistent with the terms and conditions of this Agreement. CDFW will provide written response within 18 days of Permittee submittal. The final Surface Water Diversion Plan shall receive written approval by CDFW prior to diversion activities. Any changes in the original project description or approved Surface Water Diversion Plan shall be coordinated with the CDFW. Coordination shall include the negotiation of additional Agreement provisions.

- 4.12 Emergency Response Plan The Permittee shall submit an Emergency Response Plan to CDFW prior to start of ground disturbance as described in Condition 2.30. The plan shall identify the actions that shall be taken in the event of a spill of petroleum products, or other material harmful to aquatic or plant life, and the identification and uses of emergency response materials.
- 4.13 Integrated Pest Management Plan. If necessary, the Permittee shall submit an Integrated Pest Management Plan to CDFW for review as described in Condition 2.62. The plan shall be consistent with the terms and conditions of this Agreement. The final Integrated Management Plan shall receive written approval by CDFW prior to implementation.
- 4.14 Monitoring of Permanent Cross-Section. Pursuant to duration and frequency specified in Condition 3.4, the monitoring reports for initial monitoring shall be submitted to CDFW by July 1st of each year monitoring is required.
- 4.15 Written Release from Monitoring Obligation. The Permittee shall not be released from these maintenance and monitoring obligations until such time as the Permittee has requested and received written concurrence from CDFW that the success criteria have been met in the Habitat Restoration Plan.

CONTACT INFORMATION

Any communication that Permittee or CDFW submits to the other shall be in writing and any communication or documentation shall be delivered to the address below by U.S. mail, fax, or email, or to such other address as Permittee or CDFW specifies by written notice to the other.

To Permittee:

Los Angeles County Flood Control District
ATTN: Christopher Stone
900 S. Fremont Ave.
Alhambra, CA 91803
FAX (626) 979-5436
cstone@dpw.lacounty.gov

To CC:

Los Angeles County Flood Control District
ATTN: Ken Zimmer
900 S. Fremont Ave.
Alhambra, CA 91803
FAX (626) 979-5436
kzimmer@dpw.lacounty.gov

Los Angeles County Flood Control District

ATTN: Sree Kumar
900 S. Fremont Ave.
Alhambra, CA 91803
FAX (626) 458-4150
skumar@dpw.lacounty.gov

To CDFW:

Department of Fish and Wildlife
South Coast Region
3883 Ruffin Rd.
San Diego, CA 92123
Attn: Lake and Streambed Alteration Program
Notification #1600-2015-0263-R5
(858) 467-4299
R5LSACompliance@wildlife.ca.gov

LIABILITY

Permittee shall be solely liable for any violations of the Agreement, whether committed by Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents or contractors and subcontractors, to complete the project or any activity related to it that the Agreement authorizes.

This Agreement does not constitute CDFW's endorsement of, or require Permittee to proceed with the project. The decision to proceed with the project is Permittee's alone.

SUSPENSION AND REVOCATION

CDFW may suspend or revoke in its entirety the Agreement if it determines that Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, is not in compliance with the Agreement.

Before CDFW suspends or revokes the Agreement, it shall provide Permittee written notice by certified or registered mail that it intends to suspend or revoke. The notice shall state the reason(s) for the proposed suspension or revocation, provide Permittee an opportunity to correct any deficiency before CDFW suspends or revokes the Agreement, and include instructions to Permittee, if necessary, including but not limited to a directive to immediately cease the specific activity or activities that caused CDFW to issue the notice.

ENFORCEMENT

Nothing in the Agreement precludes CDFW from pursuing an enforcement action against Permittee instead of, or in addition to, suspending or revoking the Agreement.

Nothing in the Agreement limits or otherwise affects CDFW's enforcement authority or that of its enforcement personnel.

OTHER LEGAL OBLIGATIONS

This Agreement does not relieve Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from obtaining any other permits or authorizations that might be required under other federal, state, or local laws or regulations before beginning the project or an activity related to it.

This Agreement does not relieve Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from complying with other applicable statutes in the FGC including, but not limited to, FGC sections 2050 *et seq.* (threatened and endangered species), 3503 (bird nests and eggs), 3503.5 (birds of prey), 5650 (water pollution), 5652 (refuse disposal into water), 5901 (fish passage), 5937 (sufficient water for fish), and 5948 (obstruction of stream).

Nothing in the Agreement authorizes Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, to trespass.

AMENDMENT

CDFW may amend the Agreement at any time during its term if CDFW determines the amendment is necessary to protect an existing fish or wildlife resource.

Permittee may amend the Agreement at any time during its term, provided the amendment is mutually agreed to in writing by CDFW and Permittee. To request an amendment, Permittee shall submit to CDFW a completed CDFW "Request to Amend Lake or Streambed Alteration" form and include with the completed form payment of the corresponding amendment fee identified in CDFW's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5).

TRANSFER AND ASSIGNMENT

This Agreement may not be transferred or assigned to another entity, and any purported transfer or assignment of the Agreement to another entity shall not be valid or effective, unless the transfer or assignment is requested by Permittee in writing, as specified below, and thereafter CDFW approves the transfer or assignment in writing.

The transfer or assignment of the Agreement to another entity shall constitute a minor amendment, and therefore to request a transfer or assignment, Permittee shall submit to CDFW a completed CDFW "Request to Amend Lake or Streambed Alteration" form and include with the completed form payment of the minor amendment fee identified in CDFW's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5).

EXTENSIONS

In accordance with FGC section 1605(b), Permittee may request the Agreement to be extended for one (1) 5 year extension, provided the request is made prior to the expiration of the Agreement's term. To request an extension, Permittee shall submit to CDFW a completed CDFW "Request to Extend Lake or Streambed Alteration" form and include with the completed form payment of the extension fee identified in CDFW's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5). CDFW shall process the extension request in accordance with FGC 1605(b) through (e).

If Permittee fails to submit a request to extend the Agreement prior to its expiration, Permittee must submit a new notification and notification fee before beginning or continuing the project the Agreement covers (FGC section 1605(f)).

EFFECTIVE DATE

The Agreement becomes effective on the date of CDFW's signature, which shall be: 1) after Permittee's signature; 2) after CDFW complies with all applicable requirements under the California Environmental Quality Act (CEQA); and 3) after payment of the applicable FGC section 711.4 filing fee listed at <https://www.wildlife.ca.gov/Conservation/CEQA/Fees>.

TERM

This Agreement shall expire on March 31, 2037, unless it is terminated or extended before then. All provisions in the Agreement shall remain in force throughout its term. Permittee shall remain responsible for implementing any provisions specified herein to protect fish and wildlife resources after the Agreement expires or is terminated, as FGC section 1605(a)(2) requires.

EXHIBITS

The documents listed below are included as exhibits to the Agreement and incorporated herein by reference.

- A. Exhibit A. [Access Road Detail]
- B. Exhibit B [Work Plan Map]
- C. Exhibit C [LBVI suitable habitat]
- D. Exhibit D [Certification of Clean Equipment]
- E. Exhibit E [Habitat Restoration Areas]
- F. Exhibit F [Map of Upper Los Angeles River Watershed & Table 1]

AUTHORITY

If the person signing the Agreement (signatory) is doing so as a representative of Permittee, the signatory hereby acknowledges that he or she is doing so on Permittee's behalf and represents and warrants that he or she has the authority to legally bind Permittee to the provisions herein.

AUTHORIZATION

This Agreement authorizes only the project described herein. If Permittee begins or completes a project different from the project the Agreement authorizes, Permittee may be subject to civil or criminal prosecution for failing to notify CDFW in accordance with FGC section 1602.

CONCURRENCE

The undersigned accepts and agrees to comply with all provisions contained herein.

FOR LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Christopher Stone

Christopher Stone
Assistant Deputy Director

March 01, 2017

Date

FOR DEPARTMENT OF FISH AND WILDLIFE

Betty Courtney
Environmental Program Manager

Date




Prepared by: Matthew Chirdon
Senior Environmental Scientist (Specialist)

EXHIBIT A

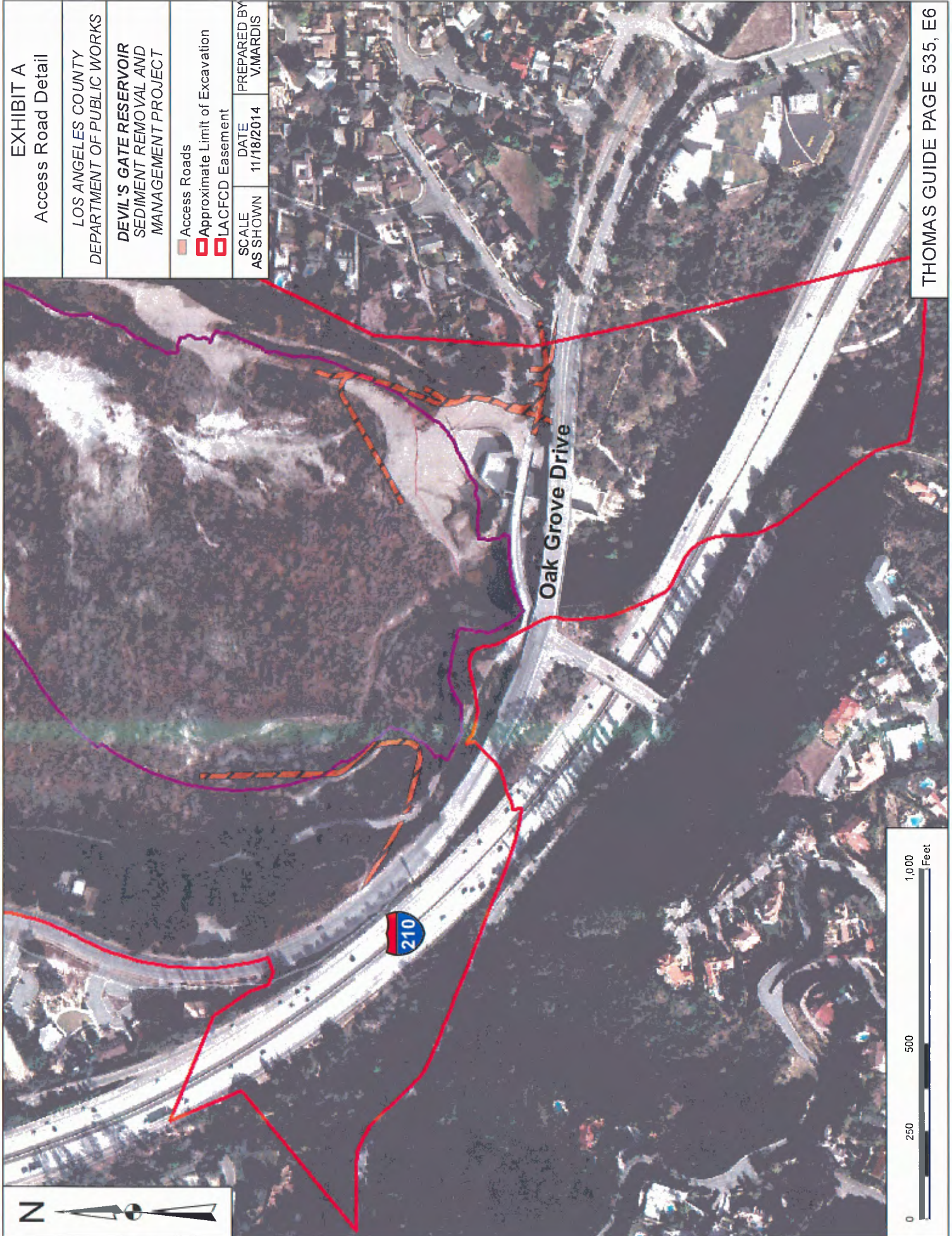
Access Road Detail

LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS

**DEVIL'S GATE RESERVOIR
SEDIMENT REMOVAL AND
MANAGEMENT PROJECT**

-  Access Roads
-  Approximate Limit of Excavation
-  LACFCD Easement

SCALE AS SHOWN DATE 11/18/2014 PREPARED BY VMARDIS



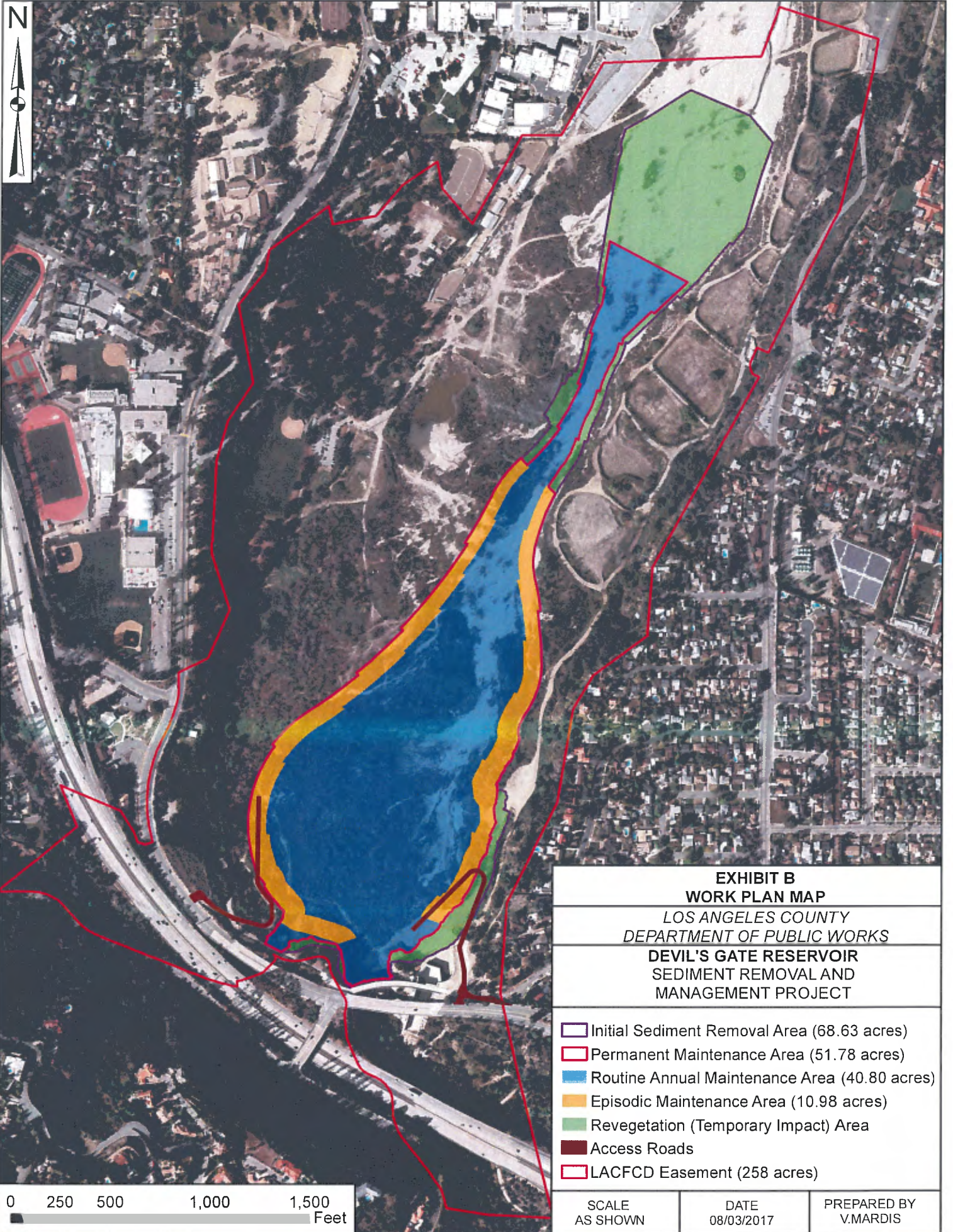


EXHIBIT B
WORK PLAN MAP
 LOS ANGELES COUNTY
 DEPARTMENT OF PUBLIC WORKS
DEVIL'S GATE RESERVOIR
 SEDIMENT REMOVAL AND
 MANAGEMENT PROJECT

- Initial Sediment Removal Area (68.63 acres)
- Permanent Maintenance Area (51.78 acres)
- Routine Annual Maintenance Area (40.80 acres)
- Episodic Maintenance Area (10.98 acres)
- Revegetation (Temporary Impact) Area
- Access Roads
- LACFCD Easement (258 acres)

0 250 500 1,000 1,500
 Feet

SCALE AS SHOWN	DATE 08/03/2017	PREPARED BY V.MARDIS
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Exhibit X


Vegetation Communities (2016)

Map Features

- Initial Project Footprint
- Annual Maintenance Footprint
- Access Roads

Vegetation Name

- Artemisia californica - Erigononum fasciculatum Shrubland Alliance
- Baccharis salicifolia Shrubland Alliance
- Brassica nigra and other mustards Herbaceous Semi-Natural Alliance
- Conium maculatum Herbaceous Semi-Natural Alliance 30%
- Lepidium latifolium
- Depression/Bare ground
- Disturbed
- Eucalyptus (globulus, carmelkullensis) Woodland Semi-Natural Alliance
- Froximus velutina Forest Alliance
- Landscaped
- Lepidium latifolium Herbaceous Semi-Natural Alliance
- Lepidium latifolium-Conium maculatum Herbaceous Semi-Natural Alliance
- Lepidospartum squamatum Shrubland Alliance
- Lepidospartum squamatum Shrubland Alliance - Sparse
- Plantanus racemosa Woodland Alliance Disturbed
- Quercus agrifolia Woodland Alliance
- Rumex crispus Herbaceous Semi-Natural Alliance
- Salix gooddingii Woodland Alliance
- Salix gooddingii Woodland Alliance - Sparse
- Xanthium strumarium Herbaceous Alliance



Map Date: 5/19/2016



CERTIFICATION OF CLEAN EQUIPMENT

Project Name: _____

Lake or Streambed Alteration Agreement Notification Number: 1600- _____ - R5

I certify that the following equipment is clean of soil, seeds, vegetative matter, other debris, or adult, juvenile, or eggs of aquatic invasive animals, and has been decontaminated. Cleaning and decontamination was performed outside of the bed, bank, or channel of a stream and the bed or shore of a lake. Rinse water was properly contained and disposed of according to applicable federal, state, and local laws and ordinances enacted and in force at the time.

Equipment Description	License Plate/Identification #		Cleaning Location	Date Cleaned	Comments * Repeat decontamination is required only if the equipment/clothing is removed from the site, exposed to contaminants listed in certification statement (above), and returned to the project site
		IN			
		OUT			
		IN			
		OUT			
		IN			
		OUT			
		IN			
		OUT			
		IN			
		OUT			
		IN			
		OUT			
		IN			
		OUT			

Signature of Permittee or designee

Date

Certification is needed any time equipment is moved into Project work area and prior to leaving the Project work area for this Project.

Exhibit 4

Devil's Gate Mitigation Areas

Map Features

- Initial Project Footprint¹
- Annual Maintenance Footprint¹
- Side Slopes¹
- Access Roads¹

- Waters of the U.S.²
- Non-wetland Waters of the U.S.
- Wetland Waters of the U.S.

- ### Mitigation Areas
- DG-1 (5.90 acres)
 - DG-2 (5.15 acres)
 - DG-2A (0.10 acres)
 - DG-2B (0.38 acres)
 - DG-3A (1.13 acres)
 - DG-3B (Alta Dena) (0.62 acres)
 - DG-4 (5.59 acres)
 - DG-4A (0.54 acres)
 - DG-4C (0.45 acres)
 - DG-4D (2.32 acres)
 - DG-5 (0.26 acres)
 - DG-6 (1.46 acres)
 - DG-7 (Temp Impacts) (1.41 acres)
 - DG-8 (Temp Impacts) (0.87 acres)
 - DG-9 (Temp Impacts) (14.12 acres)
 - DGP-ank-Drainage (0.03 acres)
 - DG-SF-1 (0.06 acres)
 - DG-SF-2 (0.03 acres)
 - DG-W1 (3.44 acres)
 - DG-W2 (2.13 acres)
 - DG-W2 (Outlet) (0.13 acres)

1. Initial Project Footprint, Annual Maintenance Footprint, Side Slopes, and Access Roads are shown in black, red dashed, hatched, and dashed line, respectively. 2. Waters of the U.S., Non-wetland Waters of the U.S., and Wetland Waters of the U.S. are shown in blue, light blue, and dark blue, respectively. 3. Mitigation Areas are shown in various colors as indicated in the legend. 4. The map was prepared using GIS software and data provided by the City of Berkeley and the U.S. Army Corps of Engineers. 5. The map is for informational purposes only and does not constitute a contract or offer of any services. 6. The map is the property of EDCORP and its User Community.



Map Date: 7/17/2016

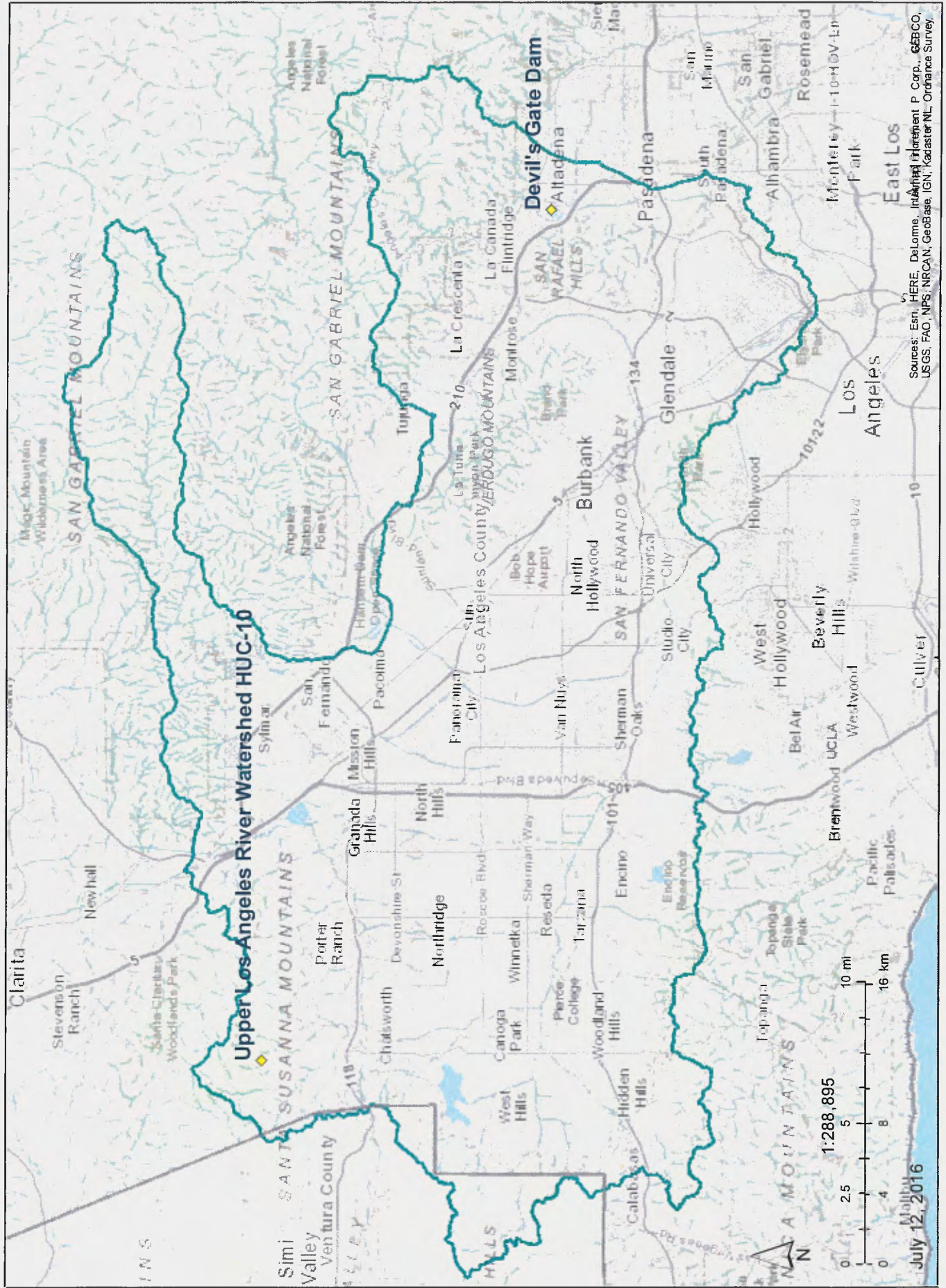


Photo Source: MAP 2014
LADPW
EDCORP and Chambers



2014-003.008 Devil's Gate Mitigation Plan

Exhibit F



Sources: Esri, HERE, DeLorme, Intermap, Infoterra, P Corp., GEBCO, USGS, FAO, NPS, NRCAN, Geobase, IGN, Kadaster NL, Ordnance Survey,

Exhibit F

Table 1
 Reaches Requiring Decontamination for Streambed Alteration Agreement 1600-2015-0263-R5
 Los Angeles County Flood Control District Soft-Bottomed Channels and Devil's Gate Dam Long-Term Agreement

Waters Name	Area (acres)	Length (feet)	Latitude	Longitude	Cross streets	Latitude	Longitude	Cross streets	Aquatic Invasive Species Risk	Decontaminate Prior	Decontaminate After	Watershed HUC-10
1 - Bell Creek-MTD 963 M.C.I.	0.9	197	34.20267	-118.65899	962' u/s of Highlander Rd	34.20242	-118.65843	766' u/s of Highlander Rd	LOW	YES [†]	YES [†]	Upper Los Angeles River
2 - Dry Canyon (Calabasas) PD T1845	1.24	1549	34.14711	-118.63044	676' u/s Park Ora	34.15177	-118.63181	870' d/s Park Ora	LOW	YES [†]	YES [†]	Upper Los Angeles River
3 - Santa Susana Ck M.C.I.	0.06	99	34.27091	-118.60975	5560' N of Devonshire St	34.27096	-118.60990	5635' N or Devonshire St	LOW	YES [†]	YES [†]	Upper Los Angeles River
4 - Browns Creek	3	1303	34.27161	-118.59078	1895' u/s of Rinaldi St	34.27502	-118.59174	556' u/s of Rinaldi St	LOW	YES [†]	YES [†]	Upper Los Angeles River
5 - Caballero Creek M.C.I. (West Fork)	1.3	654	34.14974	-118.53685	890' u/s of Reseda Blvd	34.15061	-118.53665	238' u/s of Reseda Blvd	LOW	YES [†]	YES [†]	Upper Los Angeles River
6 - Caballero Creek M.C.I. (East Fork)	0.35	164	34.14991	-118.53642	588' u/s of Reseda Blvd	34.15027	-118.53674	428' u/s of Reseda Blvd	LOW	YES [†]	YES [†]	Upper Los Angeles River
7 - Bull Creek M.C.O.	5.61	2704	34.17875	-118.4978	165' d/s of cfl of Victory Blvd	34.18617	-118.49778	Confluence w/ Los Angeles River	LOW	YES [†]	YES [†]	Upper Los Angeles River
8 - Hayvenhurst Drain - Project 470 Outlet	0.3	218	34.16421	-118.49153	Havenhurst 400' d/s of Victory Blvd	34.16472	-118.49105	Ventura Fwy 520' d/s of Victory Blvd	LOW	YES [†]	YES [†]	Upper Los Angeles River
9 - Project 106 Outlet	0.12	120	34.18557	-118.47502	751' d/s of Victory Blvd	34.18524	-118.47502	LA River (4945' d/s of Victory Blvd)	LOW	YES [†]	YES [†]	Upper Los Angeles River
10 - Project No 469	7.12	4084	34.18843	-118.47365		34.18477	-118.48406		LOW	YES [†]	YES [†]	Upper Los Angeles River
14 - May Channel (M.C.O. into Pacoima Cyn)	0.63	588	34.31194	-118.41056	3038' d/s of Hubbard St	34.31058	-118.40975	3728' d/s of Hubbard St/Conf. w/ Pacoima Cyn	LOW	YES [†]	YES [†]	Upper Los Angeles River
15 - Pacoima Wash	5.25	4656	34.22734	-118.45947	159' d/s of Parthenia	34.21471	-118.45828	1187' d/s of Lanark St	LOW	YES [†]	YES [†]	Upper Los Angeles River

* If implementing Condition 2.63 et. seq. prior decontamination is required upon equipment entering from another watershed. After initial decontamination no additional Aquatic Invasive Species decontamination pursuant Condition 2.64-2.66 is necessary if moving equipment within watershed and among reaches denoted by *
 † If implementing Condition 2.63 et. seq. decontamination after work is completed is required upon equipment leaving for another watershed. After initial decontamination no additional Aquatic Invasive Species decontamination pursuant Condition 2.64-2.66 is necessary if moving equipment within watershed and among reaches denoted by †

Exhibit F

Table 1
 Reaches Requiring Decontamination for Streambed Alteration Agreement 1600-2015-0263-R5
 Los Angeles County Flood Control District Soft-Bottomed Channels and Devil's Gate Dam Long-Term Agreement

Waters Name	Area (acres)	Length (feet)	Latitude	Longitude	Cross streets	Latitude	Longitude	Cross Streets	Aquatic Invasive Species Risk	Decon- taminate Prior	Decon- taminate After	Watershed HUC-10
16 - Verdugo Wash-Las Barras Cyn (chnl inlet)	0.07	131	34.23318	-118.27123	157' u/s of conf. w/Las Barras Cyn Chnl	34.23310	-118.27142	27' u/s of conf. w/Las Barras Cyn Channel	LOW	YES [†]	YES [†]	Upper Los Angeles River
18 - Engleheard Channel	1.1	744	34.20773	-118.24328	800' u/s of conf. w/ Verdugo Wash	34.20707	-118.24096	Verdugo Wash	LOW	YES [†]	YES [†]	Upper Los Angeles River
19 - Pickens Canyon	3.42	2461	34.22852	-118.22765	Crib dam No.7	34.22224	-118.22892	Pickens Debris Basin	LOW	YES [†]	YES [†]	Upper Los Angeles River
20 - Webber Chnl (strm @ private bridge)	0.13	123	34.22804	-118.21786	861' u/s of Los Amigos St	34.22792	-118.21801	746' u/s of Los Amigos St	LOW	YES [†]	YES [†]	Upper Los Angeles River
21 - Webber Chnl (main chnl inlet d/s bridge)	0.03	25	34.22753	-118.21875	496' u/s of Los Amigos St	34.22750	-118.21879	471' u/s of Los Amigos St	LOW	YES [†]	YES [†]	Upper Los Angeles River
22 - Halls Canyon	2.63	2465	34.22228	-118.22217	1370' u/s of Jessen Dr	34.22315	-118.22090	Halls Cyn Debris Basin	LOW	YES [†]	YES [†]	Upper Los Angeles River
96 - PD 1591, Calabassas	0.92	532	34.14607	-118.63025	85' u/s of culvert under Vicasa Drive	34.14675	-118.63043	360' d/s of culvert under Vicasa Drive	LOW	YES [†]	YES [†]	Upper Los Angeles River
100 - Dry Canyon Calabassas Creek Inlet	0.05	114	34.1556	-118.6328	1835' u/s of Ave San Luis	34.15534	-118.63259	1775' u/s of Ave San Luis	LOW	YES [†]	YES [†]	Upper Los Angeles River

* If implementing Condition 2.63 *et. seq.*, prior decontamination is required upon equipment entering from another watershed. After initial decontamination no additional Aquatic Invasive Species decontamination pursuant Conditions 2.64-2.66 is necessary if moving equipment within watershed and among reaches denoted by *
 † If implementing Condition 2.63 *et. seq.*, decontamination after work is completed is required upon equipment leaving for another watershed. After initial decontamination no additional Aquatic Invasive Species decontamination pursuant Condition 2.64-2.66 is necessary if moving equipment within watershed and among reaches denoted by †