

INFORMATION HANDOUT

**For Contract No. 09-358304
At 09-Mno-108,158,182,395-Var.**

**Identified by
Project ID 09130000241**

WATER QUALITY

California Regional Water Quality Control Board

Lahontan Region
Board Order No. R6T-2014-0006

AGREEMENTS

California Department of Fish and Wildlife

Notification No. 1600-2012-0061-R6

PERMITS

United States Army Corps of Engineers

Non-Reporting Nationwide No. NW3 (404)

WATER QUALITY

California Regional Water Quality Control Board

Lahontan Region

Board Order No. R6T-2014-0006



Lahontan Regional Water Quality Control Board

January 28, 2014

Mark Heckman, Acting Environmental Chief
Caltrans District 9
500 South Main Street
Bishop, CA 93514

BOARD ORDER NO. R6T-2014-0006 CLEAN WATER ACT SECTION 401 WATER QUALITY CERTIFICATION FOR CALTRANS DISTRICT 9 MONO CULVERTS REPLACEMENT PROJECT, MONO COUNTY, WDID 6A261312002

The California Regional Water Quality Control Board, Lahontan Region (Water Board) has received a complete Clean Water Act (CWA) Section 401 Water Quality Certification (WQC) application and application filing fee from Caltrans District 9 (Applicant) for the Mono Culverts Replacement Project (Project) in Mono County. This Order for WQC hereby assigns this Project the following reference number: Waste Discharger Identification (WDID) No. 6A261312002. Please use this reference number in all future correspondence regarding this Project.

Any person aggrieved by this action of the Water Board may petition the State Water Resources Control Board (State Water Board) to review the action in accordance with Water Code section 13320 and California Code of Regulations (CCR), title 23, sections 2050 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at: http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

PROJECT DESCRIPTION

Table of Project Information:

WDID Number	6A261312002
Applicant	Mark Heckman, Acting Environmental Chief 500 South Main Street Bishop, CA 93514
Agent	None
Project Name	Caltrans District 9 Mono Culverts Replacement Project

Table of Project Information continued:

Project Purpose and Description	In-kind replacement of failing culverts at 15 locations on Highways 158, 108, 182, and 395						
Project Type	Culvert replacement						
Project County	Mono						
Project Address or other Locating Information	One location on Highway 108 at Pickel Meadow, two locations on Highway 158 in June Lake, eleven locations on Highway 182 near Bridgeport, and one location on Highway 395 at Devil's Gate north of Bridgeport.						
Location Latitude/Longitude	Latitude 37.333420 to 38.416863, Longitude -119.083844 to -119.378198						
Hydrologic Unit(s)	Hydrologic Units, 601.00, 630.00, 631.00, 632.00						
Overall Project Area	1.35 acres						
Receiving Water(s) Name	Brownie Creek, Reverse Creek, East Walker River, Frying Pan Creek, Hot Creek, minor surface waters						
Water Body Type(s)	Rivers, wetlands and minor surface waters						
Designated Beneficial Uses	MUN, AGR, GWR, FRSH, REC-1, REC-2, COMM, COLD, WILD, RARE, SPWN, WQE, FLD						
Potential Water Quality Impacts	Sediment and other construction-related pollutants						
Area of Water(s) within the Overall Project Area	0.22 acres						
Impacts of Fill to waters of the state, including waters of the U.S. (WOUS)	Waterbody Type	Permanent			Temporary		
		Acres or Sq. Ft.	Linear Feet	Cubic Yards	Acres	Linear Feet	Cubic Yards
	<i>Lake</i>						
	<i>Riparian</i>						
	<i>Stream</i>				0.013		20.98
	<i>Wetland</i>				0.0054	8.71	
Impacts of Dredging (Excavation) to waters of the state, including WOUS	Waterbody Type	Permanent			Temporary		
		Acres or Sq. Ft.	Linear Feet	Cubic Yards	Acres	Linear Feet	Cubic Yards
	<i>Lake</i>						
	<i>Riparian</i>						
	<i>Stream</i>						
	<i>Wetland</i>						
	Total				0.0184	29.69	
Federal Permit(s)	The Applicant has applied for U.S. Army Corps of Engineers (USACOE) authorization to proceed under a Nationwide Permit 3, pursuant to CWA section 404.						
Non-Compensatory Mitigation	Work will be scheduled between June 1 and October 31. All heavy equipment will be operated from the roadway or shoulder and sediment/erosion controls will be installed where appropriate. Gravel bag berms or clear water diversions will be used to isolate work areas from surface waters. All dewatering waste will be disposed at appropriate upland locations to avoid discharge to surface waters. In excavation areas, topsoil will be stockpiled and recovered for revegetation. Willows will be trimmed by hand to leave root structures in place. Disturbed areas will be revegetated with native grass and shrub species, willow cuttings and plugs of wetland species where conditions are appropriate.						

Table of Project Information Continued:

Compensatory Mitigation	Restoration of 0.0184 acres (1:1) for temporary impacts to WOUS
Applicable Fees	\$1,296 [\$1,097 base fee + \$87 discharge fee for 0.0184 acres of impacts to Federal Jurisdictional Waters at \$4,717 per acre + \$112 ambient surcharge (9.5% of base and discharge fee)]
Fees Received	\$1,296

CEQA COMPLIANCE

The Water Board has determined that this Project is exempt from the California Environmental Quality Act (CEQA)(Public Resources Code Section 21000 et seq.). In accordance with section 15301 and 15302, the basis for CEQA exemption is "Existing Facilities" and "Replacement and Reconstruction." A Notice of Exemption will be filed with the State Clearinghouse concurrently with issuing this Order.

SECTION 401 WATER QUALITY CERTIFICATION

Authority

Section 401 of the CWA (33 U.S.C., paragraph 1341) requires that any applicant for a CWA section 404 permit, who plans to conduct any activity that may result in discharge of dredged or fill materials to WOUS, must provide to the permitting agency a certification that the discharge will be in compliance with applicable water quality standards of the state in which the discharge will originate. No section 404 permit may be granted (or valid) until such certification is obtained. The Applicant submitted a complete application and the fees required for WQC under section 401 for the Project. The Applicant has applied for USACOE authorization to proceed under Nationwide Permit No. 3 pursuant to CWA section 404.

CCR title 23, section 3831(e) grants the Water Board Executive Officer the authority to grant or deny WQC for projects in accordance with CWA section 401. The Caltrans Project qualifies for such WQC.

Standard Conditions

Pursuant to CCR title 23, section 3860, the following standard conditions are requirements of this certification:

1. This certification action is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to Water Code section 13330 and CCR title 23, section 3867.
2. This certification action is not intended and must not be construed to apply to any discharge from any activity involving a hydroelectric facility requiring a Federal Energy Regulatory Commission (FERC) license unless the pertinent certification application was filed pursuant to CCR title 23, section 3855(b) and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.

3. The validity of any non-denial certification action must be conditioned upon total payment of the full fee required under CCR title 23, section 3833, unless otherwise stated in writing by the certifying agency.
4. Neither Project construction activities nor operation of the Project may cause a violation of the Water Quality Control Plan for the Lahontan Region (Basin Plan), may cause a condition or threatened condition of pollution or nuisance, or cause any other violation of the Water Code.
5. The Project must be constructed and operated in accordance with the Project described in the application for WQC that was submitted to the Water Board. Deviation from the Project description constitutes a violation of the conditions upon which the certification was granted. Any significant changes to this Project that would have a significant or material effect on the findings, conclusions, or conditions of this certification, including Project operation, must be submitted to the Executive Officer for prior review and written approval.
6. This WQC is subject to the acquisition of all local, regional, state, and federal permits and approvals as required by law. Failure to meet any conditions contained herein or any conditions contained in any other permit or approval issued by the state of California or any subdivision thereof may result in the revocation of this certification and civil or criminal liability.
7. The Water Board may add to or modify the conditions of this certification as appropriate to implement any new or revised water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act or section 303 of the CWA, or as appropriate to coordinate the operations of this Project with other projects where coordination of operations is reasonably necessary to achieve water quality standards or protect the beneficial uses of water. Notwithstanding any more specific conditions in this certification, the Project must be constructed and operated in a manner consistent with all water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act or section 303 of the CWA.
8. This certification does not authorize any act which results in the taking of a threatened or endangered species or any act which is now prohibited, or becomes prohibited in the future, under the California Endangered Species Act (Fish and Game Code section 2050 et seq.) or the federal Endangered Species Act (16 U.S.C. sections 1531 et seq.). If a "take" will result from any act authorized under this certification, the Applicant must obtain authorization for the take prior to construction or operation of the Project. The Applicant is responsible for meeting all applicable requirements of the Endangered Species Act for the Project authorized under this certification.

Additional Conditions

Pursuant to CCR title 23, section 3859(a), the following additional conditions are requirements of this certification:

1. No debris, cement, wet concrete (or wash water therefrom), oil or petroleum product must enter into, or be placed where it may be washed from the Project site by rainfall or runoff, into waters of the state. When operations are completed, any excess material must be removed from the Project work area, and from any areas adjacent to the work area where such material may be transported into waters of the state.
2. All dewatering waste must be disposed in a manner to prevent such waste from re-entering waters of the state.
3. The Applicant must immediately (within two hours) notify Water Board staff by telephone whenever an adverse condition occurs as a result of this discharge. Such a condition includes, but is not limited to, a violation of the conditions of this Order, a significant spill of petroleum products or toxic chemicals, or damage to control facilities that would cause noncompliance. A written notification of the adverse condition must be provided to the Water Board within two weeks of occurrence. The written notification must identify the adverse condition, describe the actions necessary to remedy the condition, and specify a timetable, subject to any modifications by Water Board staff, for the remedial actions.
4. The Applicant must prevent the introduction or spread of noxious/invasive weeds or organisms within the Project and staging area. Measures must include the cleaning of all equipment and gear that has been in an infested site with water heated to 120 degrees Fahrenheit or more, the use of weed-free erosion control materials (including straw), and the use of weed-free seeds and plant material for revegetation of disturbed areas.
5. Construction equipment must be monitored for leaks, and removed from service if necessary to protect water quality.
6. An emergency spill kit must be at the Project site at all times.
7. A copy of this Order must be maintained at the Project site so as to be available at all reasonable times to site operating personnel and Water Board staff.

Enforcement

1. In the event of any violation or threatened violation of the conditions of this certification, the violation or threatened violation must be subject to any remedies, penalties, process or sanctions as provided for under state law. For purposes of CWA section 401(d), the applicability of any state law authorizing remedies, penalties, process or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this certification.

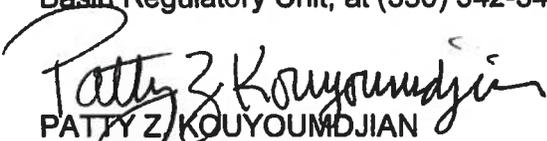
2. In response to a suspected violation of any condition of this certification, the State Water Board or the Water Board may require the holder of any permit or license subject to this certification to furnish, under penalty of perjury, any technical or monitoring report the State Water Board or Water Board deems appropriate, provided that the burden, including costs, of the reports must be a reasonable relationship to the need for the reports and the benefits to be obtained from the reports.
3. In response to any violation of the conditions of this certification, the Water Board may add to or modify the conditions of this certification as appropriate to ensure compliance.

Section 401 Water Quality Certification Requirements Granted

I hereby issue this Order certifying that any discharge from the referenced Project will comply with the applicable provisions of CWA sections 301 (Effluent Limitations), 302 (Water Quality Related Effluent Limitations), 303 (Water Quality Standards and Implementation Plans), 306 (National Standards of Performance), and 307 (Toxic and Pretreatment Effluent Standards), and with other applicable requirements of state law. This discharge is also regulated under State Water Board Order No. 2003-0017-DWQ, "General Waste Discharge Requirements for Dredge and Fill Discharges That Have Received State Water Quality Certification" which requires compliance with all conditions of this WQC.

Except insofar as may be modified by any preceding conditions, all WQC certification actions are contingent on (a) the discharge being limited and all proposed mitigation being completed in strict compliance with the Applicant's Project description and the terms specified in this WQC Order, and (b) compliance with all applicable requirements of the Basin Plan.

We look forward to working with you in your efforts to protect water quality. If you have questions, please contact Bud Amorfini at (530) 542-5463 or Alan Miller, Chief, North Basin Regulatory Unit, at (530) 542-5430.



PATTY Z. KOUYOUMDJIAN
EXECUTIVE OFFICER

cc: Jason Brush, Wetlands Regulatory Office (WTR-8), US EPA, Region 9
(via email at R9-WTR8-Mailbox@epa.gov)
Bill Orme, State Water Resources Control Board, Division of Water Quality
(via email at Stateboard401@waterboards.ca.gov)
Leah Fisher, U.S. Army Corps of Engineers, Sacramento District
(via email at Leah.m.fisher@UASCE.army.mil)
Heidi Sickler, California Department of Fish and Game
(via email at Heidi.Sickler@wildlife.ca.gov)

AGREEMENTS

California Department of Fish and Wildlife

Notification No. 1600-2012-0061-R6



State of California – Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
Inland Deserts Region
3602 Inland Empire Boulevard, Suite C-220
Ontario, CA 91764
(909) 484-0167
www.wildlife.ca.gov

EDMUND G. BROWN, Jr., Governor
CHARLTON H. BONHAM, Director



March 13, 2014

Mr. Mark Heckman
California Department of Transportation, District 9
Eastern Sierra Environmental Branch
500 South Main Street
Bishop, CA 93514

Subject: Final Streambed Alteration Agreement
Notification No. 1600-2012-0061-R6
Routine Maintenance Activities Inyo, Mono, and San Bernardino Counties

Dear Mr. Heckman:

Enclosed is the final Streambed Alteration Agreement (Agreement) for Routine Maintenance Activities Inyo, Mono, and San Bernardino Counties (Project). Before the California Department of Fish and Wildlife (Department) may issue an Agreement, it must comply with the California Environmental Quality Act (CEQA). In this case, the Department, acting as a responsible agency, filed a notice of determination (NOD) on the same date it signed the Agreement. The NOD was based on information contained in the final Mitigated Negative Declaration the lead agency (Caltrans) prepared for the Project.

Under CEQA, filing a NOD starts a 30-day period within which a party may challenge the filing agency's approval of the project. You may begin your project before the 30-day period expires if you have obtained all necessary local, state, and federal permits or other authorizations. However, if you elect to do so, it will be at your own risk.

If you have any questions regarding this matter, please contact me at 760-872-0751 or heidi.sickler@wildlife.ca.gov.

Sincerely,

Heidi A. Sickler
Senior Environmental Scientist

cc: Chron

CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE
INLAND DESERTS REGION
3602 INLAND EMPIRE BOULEVARD, SUITE C-220
ONTARIO, CA 91764
(909) 484-0167



STREAMBED ALTERATION AGREEMENT-ROUTINE MAINTENANCE
NOTIFICATION No. 1600-2012-0061-R6

CALIFORNIA DEPARTMENT OF TRANSPORTATION DISTRICT 9
ROUTINE MAINTENANCE ACTIVITIES IN INYO, MONO AND SAN BERNARDINO
COUNTIES

This Streambed Alteration Agreement for Routine Maintenance (Agreement) is entered into between the California Department of Fish and Wildlife (CDFW) and the California Department of Transportation, District 9 (Permittee) as represented by Mr. Mark Heckman.

RECITALS

WHEREAS, this Agreement is entered into between CDFW and Permittee, is for the purpose of delineating and defining routine maintenance activities within Permittee's culvert and bridge facilities and shall not require further written notification and in compliance with Section 1600 et. seq., of the FGC, unless the work as described in this Agreement is substantially changed or conditions affecting fish and wildlife resources change, and the resources are adversely affected by the activity conducted under this Agreement; and

WHEREAS, CDFW has determined that such maintenance activities may substantially adversely affect those existing fish and wildlife resources.

WHEREAS, Section 1602 of the FGC allows CDFW to propose reasonable modifications to certain projects as would allow for the protection and continuance of existing fish and wildlife resources that may be substantially adversely affected by that project; and

WHEREAS, it is essential that Permittee perform routine maintenance activities within miscellaneous streams and their tributaries, in Permittee's District 9 area to maintain the designed capacity of the channel(s), to protect the State Highway System, and to prevent loss of life and property; and

WHEREAS, consistent with the policies of the FGC Section 1600 et seq., the protection and conservation of the fish and wildlife resources of California are of utmost public interest, and fish and wildlife conservation is a proper responsibility of the State; and

WHEREAS, in order to avoid future conflicts, it is mutually beneficial to delineate and define routine maintenance, to establish procedures to expedite maintenance activities, and to provide for the protection and continuance of existing fish or wildlife resources during such maintenance activities; and

WHEREAS, nothing in this Agreement shall constitute a waiver of any future or current CDFW claims to the use and maintenance of natural conditions under the public trust doctrine; and

WHEREAS, this Agreement is not intended to affect Permittee's rights under FGC Section 1610 to undertake emergency work necessary to protect life and property.

THEREFORE, CDFW hereby proposes measures to protect fish and wildlife resources during the Permittee's work. Permittee hereby agrees to accept the following measures/conditions as part of the proposed work.

PROJECT LOCATION

The work authorized by this Agreement will occur in Permittee's District 9 in Mono, Inyo and the northern section of San Bernardino Counties. A list of all possible culverts and bridges within these counties where work might occur was submitted with Permittee's notification package (Attachment A). Permittee shall submit a Maintenance Notification Request Form (NRF) (Attachment B), prior to maintenance work commencing at any of these locations. The NRF shall include a map of the location, photos when possible, and a description of the work to be conducted at that location.

PROJECT DESCRIPTION

Permittee's Notification package comprises Permittee's project description and is used to provide the basis for establishing protective conditions that are included in this Agreement. The Notification includes a project description, a complete set of maps and detailed bridge and culvert project maintenance locations, a Best Management Practice (BMP) Field Manual and Training Guide, a permit with the State Water Resources Control Board National Pollutant Discharge Elimination System (NDPES) containing conditions to address storm water discharges, and a Storm Water Quality Handbook (SWQH), all of which contain conditions that Permittee and staff shall adhere to. CDFW's concurrence with Permittee's CEQA determination is based upon Permittee's commitment to full implementation of the conditions of this Agreement.

Routine maintenance activities that are typically performed in streams within these facilities include the removal of sand, silt, sediment, debris, woody and herbaceous vegetation; the control of weeds, grasses, and emergent vegetation; making repairs to control erosion and stabilize banks; repairing gates, barricades, and small structures; and the repair and/or replacement, cleaning and clearing of facilities, all as necessary to

maintain the structural integrity and capacity of these facilities for drainage, flood control, and conservation purposes.

If Permittee's work changes from that stated in the Notification specified above, this Agreement is no longer valid and a new Notification shall be submitted to CDFW. Failure to comply with the provisions of this Agreement and with other pertinent code sections, including but not limited to Fish and Game Code Sections 1602, 5650, 5652, 5937, and 5948, may result in prosecution.

PROJECT IMPACTS

Existing fish or wildlife resources the project could substantially adversely affect include but are not limited to: desert tortoise, Amargosa vole, Mohave ground squirrel, burrowing owl, willow flycatcher, Least Bell's vireo, western yellow Billed cuckoo, Inyo California towhee, Amargosa nitrophila, Owens Valley checkerbloom, bank swallow, other birds, raptors, reptiles, mammals, amphibians, fish, special status plants and all other fish and wildlife resources, including that riparian vegetation which provides habitat for such species in the area.

DEFINITIONS

Routine Maintenance

Routine Maintenance is recurring maintenance work (either scheduled or predictable) that is necessary to maintain the functional integrity of Permittee's existing facilities within perennial and ephemeral streams. It does not include any activity that would result in a change to the design capacity or existing footprint of a facility. Routine maintenance includes the removal of sand, silt, sediment, debris, woody and herbaceous vegetation; the control of weeds, grasses, and emergent vegetation; making repairs to control erosion and stabilize banks; repairing gates, barricades, and small structures; and the repair and/or replacement, cleaning and clearing of facilities.

Facilities

Facilities are man-made ancillary structures including but not limited to culverts, bridges, down- and over-side drains and training dikes operated and maintained by Permittee.

Culverts

Culverts are water conduits that allow rivers and streams to cross under State Highways and Routes. There are six types of culverts within Permittee's District 9: circular culvert, box culvert, pipe arch, horizontal ellipse, metal box and open arch. On the inflow and outflow side of each culvert, there are end treatments, which include rock slope protection, flared end sections, and concrete head walls.

Bridges

Bridges are structures that span more than 20 feet, measured along the centerline of the road between under copings of abutments, and multiple span structures, including

culverts, where the total measurement of the individual spans are in excess of 20 feet, measured from center to center of supports along the centerline of the road and the distance between individual culvert barrels is less than one-half the culvert diameter.

Drains

Drains are conduits that intercept and discharge surplus ground or surface water from the roadway or shoulders.

Training Dikes

Training dikes are embankments constructed to provide a transition from the natural stream channel or floodplain, both to and from a constricting bridge crossing.

Equipment

Permittee may use equipment to conduct routine maintenance activities. Hand-held equipment to be used includes: shovels, hoes, mechanical hand-held weed eaters, brush hog push mowers, pitch forks, rakes, pruners and loppers. Mechanical equipment to be used includes: backhoes, graders, front end loaders, excavators, vactors, haul trucks, remote controlled loaders, hydroseeders, dozers, gradealls, row boats, water trucks, mechanical mowers, and remote control camera cars. Mechanical equipment may be used to cross creeks using rubber mats within Permittee's facilities for maintenance activities.

Waterways

Waterways include perennial and ephemeral rivers, streams, brooks, canals, and ditches (including concrete lined) in Mono, Inyo and the northern portion of San Bernardino Counties (See Attachment A).

Best Management Practices (BMP's)

BMP's are a method or combination of methods, which Permittee shall implement, to prevent or reduce the movement or discharge of sediment, nutrients, construction materials, or other pollutants from the land to surface or ground water, to protect water quality and biological resources from potential adverse routine maintenance activities.

ROUTINE MAINTENANCE ACTIVITIES

1. Removal of Sand, Silt, and Sediment

Permittee may conduct the removal of stream deposits such as sand, silt and sediment within an area of an existing facility to allow for unobstructed water flow in waterways. Permittee may perform the work described in this subsection with mechanical equipment provided that Permittee:

- A) Restricts the work to an area within 100 feet upstream and 100 feet downstream of the facility or work area;

B) Implements erosion/sediment control BMPs and/or water diversions around the work area, depending on the type of waterway and flow conditions to prevent streambed materials from flowing downstream;

C) Shall place rubber mats for crossing streams with mechanical equipment;

D) Shall not temporarily stockpile sediment on existing riparian and/or wetlands habitat;

E) Shall place sediment in a designated upland area, either road or other compact surface, so that materials will not wash back into until waterway, until sediment can be removed and disposed of at an approved disposal facility off site; and

F) Performs material removal between February 1 through October 15, to augment natural flows to assist in the removal of sediment and debris and avoid impacts to spawning trout species and redds.

2. Removal of Debris

Permittee may remove material such as stream deposits, human generated debris and other rubbish, and downed trees that significantly reduce channel capacity, impede storm flow, accelerate erosion and/or cause damage to Permittee's facilities. These activities shall be conducted when waterways are dry or during annual low flows. If flows are present in waterways, Permittee shall implement erosion/sediment control BMPs and/or water diversions around the obstruction, to prevent streambed materials from flowing downstream. Permittee shall follow Routine Maintenance Activity 1 (Removal of Sand, Silt, and Sediment), subsections A through E, when removing debris.

3. Vegetation Control

Permittee may mow vegetation to provide access along channel banks to maintain the function and integrity of culverts and bridges and may control weeds, grasses and emergent vegetation that obstruct normal water diversion and flow through these facilities. Permittee may also conduct the selective cutting of smaller, individual trees less than 4 inches in Diameter at Breast Height (DBH) leaving larger individual trees to provide canopy. Permittee shall not remove any trees greater than 4 inches DBH without prior approval from CDFW. Removal shall be completed by hand when feasible. When hand-removal is not feasible, Permittee may use mechanical equipment with the implementation of erosion control BMPs or water diversions, depending on the type and location of vegetation removal. Permittee shall follow Routine Maintenance Activity 1 (Removal of Sand, Silt, and Sediment), subsections A through E, when conducting vegetation control.

4. Bank Stabilization

Permittee may conduct repairs to control erosion and stabilize the banks of waterways. Permittee may replenish damaged rip rap with clean rock and live woody vegetation within the existing footprint of previously rip rapped areas provided the stream dry, and old rip rap that may have fallen into the channel is removed. CDFW recommends and encourages that live woody vegetation be incorporated into riprap structures to help increase bank stability and decrease erosion. Placement of riprap and live vegetation shall be conducted without heavy equipment entering the channel of the waterway. If placement requires any vegetation removal, prior written approval from CDFW is required.

5. Facilities Repair

Permittee may repair gates, barricades, headwalls, and other small structures within their facilities to retain their functional and structural integrity. Permittee may also conduct the repair and/or replacement of facilities provided that these work activities are completed when water is not flowing in any waterway and the new facility is substantially similar to and within the same footprint of the facility being replaced.

Work Not Authorized By This Agreement

1. Emergency work.

This Agreement does not apply to emergency work performed by Permittee. Pursuant to Fish and Game Code Section 1610, Permittee shall notify CDFW within 14 days of beginning necessary emergency work. Permittee shall make a reasonable effort to alert CDFW as soon as possible.

2. Work Other Than Routine Maintenance.

Before performing work not covered by this Agreement, and if subject to section 1602, Permittee shall notify CDFW and obtain a separate Lake or Streambed Alteration Agreement.

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 this Agreement.
- 1.5 Nesting Birds. This Agreement does not authorize take of Nesting Birds. Sections 3503, 3503.5 and 3513 pursuant to FGC prohibits the take of all birds and their active nests, including raptors and other migratory non-game birds (as listed under the United States Migratory Bird Treaty Act).

2. Avoidance and Minimization Measures

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

- 2.1 Prior to any ground disturbing activities under this Agreement, intensive, focused surveys shall be conducted by qualified biologist for the special-status species potentially found onsite at an appropriate time of year for maximum detectability, with particular emphasis on desert tortoise, Amargosa vole, Mohave ground squirrel, burrowing Owl, willow flycatcher, Least Bell's Vireo and nesting birds. Wildlife surveys shall include diurnal transect surveys for other wildlife species and bat roosts. The biologist shall provide Permittee a list of exclusion measures that construction staff shall use to minimize risk of take or injury to any individual animals in the vicinity of the work site. Permittee shall ensure that these exclusion measures are in place prior to construction.
- 2.2 Prior to ground disturbing activities for any project under this Agreement, a focused plant survey shall be conducted by a qualified botanist at an appropriate time of year for maximum detectability in order to locate special-status species. If special-status species are found present within the work site area, Permittee shall work cooperatively with CDFW to identify ways to minimize or avoid impacts to these species. Special-status plant populations that are adjacent to, but outside of, the proposed work site area, shall be flagged and temporarily fenced to ensure that these plants are not inadvertently harmed.
- 2.3 This Agreement does not allow for the take, or incidental take, of any State or Federal listed threatened or endangered species. Liability for any take, or incidental take, of such listed species remains the responsibility of Permittee for

the duration of the project. Any unauthorized take of such listed species may result in prosecution and the suspension or cancellation of this Agreement. In areas that may support state or federal listed species, a qualified biologist shall conduct appropriate surveys for potential rare, threatened, endangered, and other sensitive plant and wildlife species. Permittee shall not begin work until a qualified biologist and CDFW determines that maintenance construction activities shall not affect any listed species. If a listed species is observed in the proposed work area, or is in a location which could be impacted by the work proposed, Permittee shall notify CDFW. Additional permits and CEQA compliance may become necessary if listed species are impacted.

- 2.4 If any sensitive species are observed on or in proximity to the project site, or during project surveys, Permittee shall submit California Natural Diversity Data Base (CNDDDB) forms and maps to the CNDDDB within five working days of the sightings, and provide the regional CDFW office with copies of the CNDDDB forms and survey maps. The CNDDDB form is available online at: www.dfg.ca.gov/whdab/pdfs/natspec.pdf. This information shall be mailed within five days to: California Department of Fish and Wildlife, Natural Diversity Data Base, 1807 13th Street, Suite 202, Sacramento, CA 95814, Phone (916) 324-3812. A copy of this information shall also be mailed within five days to the Department of Fish and Wildlife Region 6, 407 West Line St., Bishop, CA 93514 Attn: Heidi Sickler. **Please reference SAA # 1600-2012-0061-R6.**
- 2.5 Pre-construction surveys shall be conducted to determine the presence of salamanders, frogs and toad species. Any of these species that are found in the work area prior to construction shall be relocated to a suitable habitat area outside of the construction site by a qualified biologist. Any amphibians encountered in pre-construction surveys shall be identified to species, and reported to CDFW.
- 2.6 Willow flycatcher (WIFL) is listed as endangered (January 2, 1991), pursuant to CESA. Habitat for this species is characterized by willow (*Salix spp.*) or alder (*Alnus spp.*) thickets adjacent to permanent water such as low-gradient streams, ponds, marshes or wet meadows within or adjacent to forested habitat. WIFL are typically found to breed in riparian areas with shrub thickets interspersed with openings such as moist meadows. Permittee shall employ the following standard protection measures to prevent significant negative effects to WIFL and to avoid unauthorized take of the species:

- a. The work area and its vicinity (within 300 feet) shall be reviewed by a qualified biologist for presence of suitable WIFL habitat. If habitat is present, surveys shall be completed before construction activities begin to determine if WIFL are present, unless construction activities are conducted outside the WIFL breeding season (May 1 through August 31). The currently accepted survey protocol is "A Willow Flycatcher Survey Protocol for California developed by Helen L. Bombay, Teresa M. Ritter and Brad E. Valentine, June 6 2000".
 - b. If current-year surveys (per the protocol) determine the presence of WIFL, the following additional measures shall be followed:
 - I. No construction activities shall occur during the breeding season (May 1 through August 31) in and within 300 feet of the WIFL habitat where WIFL have been found present.
 - II. Any construction activities conducted within or adjacent to suitable WIFL habitat where WIFL have been found shall not damage or destroy willows or other riparian shrubs, unless agreed on through consultation with CDFW.
- 2.7 If burrowing owl is found on site within the work area, Permittee shall conduct the following:
- a. As compensation for the direct loss of burrowing owl nesting and foraging habitat, Permittee shall mitigate by acquiring and permanently protecting known burrowing owl nesting and foraging habitat. CDFW's 2012 Burrowing Owl Staff Report provides mitigation recommendations and guidance.
 - b. A Burrowing Owl Mitigation and Monitoring Plan (Plan) shall be submitted to CDFW for review and approval prior to relocation of owls. The Plan shall describe proposed relocation and monitoring actions. The Plan shall include the number and location of occupied burrow sites and details on adjacent or nearby suitable habitat available to owls for relocation. If no suitable habitat is available nearby for relocation, details regarding the creation of artificial burrows (numbers, location, and type of burrows) shall also be included in the plan. The Plan shall also describe proposed off-site areas to preserve to compensate for impacts to burrowing owls/occupied burrows at the work site.
- 2.8 Prior to project activities commencing at any bridge, the bridge shall be surveyed for bats by a qualified biologist. If bats are found, work activities on the bridge shall not commence and bats shall not be disturbed without specific notice to and consultation with CDFW. CDFW reserves the right to provide additional provisions to this agreement designed to protect nesting/roosting bats. Impact minimization measures shall be implemented prior to work activities.

- 2.9 If Permittee intends to implement the Project during the period commencing February 1 through August 15 in San Bernardino County, and March 1 through September 15 in Inyo and Mono Counties, Permittee shall direct a qualified biologist to assess all potential bird nesting habitat at the work site within 48 hours prior to implementing work activities. If breeding activities and/or an active bird nest is located, the qualified biologist shall determine an appropriate buffer from breeding activities or the nest, and this area shall not be disturbed until the young have fledged or the nest otherwise becomes inactive. If threatened or endangered bird species are observed in the area, no work shall occur during the breeding season (February 1 through August 15 in San Bernardino County, and March 1 through September 15 in Inyo and Mono Counties) to avoid direct or indirect (noise) take of listed species and State and/or Federal threatened/endangered species permits may be required prior to commencing work activities. Sections 3503, 3503.5, and 3513 of FGC prohibits take of all birds and their active nests, including raptors and other migratory nongame birds (As listed under the Migratory Bird Treaty Act).
- 2.10 Permittee shall visually check all open trenches and other construction materials daily for the presence of wildlife sheltering within them. Trenches and open pits shall be covered at the end of each work day so as to prevent wildlife from entering. If wildlife are encountered in open trenches or pits, Permittee shall place an escape ramp at each end of the open trench or pit to allow any animals that may have become entrapped in to climb out. The ramp may be constructed of dirt, fill, wood planking or other suitable material that is placed at an angle no greater than thirty degrees.
- 2.11 When Permittee needs to conduct maintenance activities involving streambed disturbance, these activities should be conducted between February 1 and October 15, to avoid impacts to spawning trout, redds and embryos. In tributaries to Crowley Lake, June Lake, Oak Creek, and the Owens River, the activities should be conducted between June 1 and October 1, to avoid impacts to spawning trout, redds and embryos as well as spawning Cypriniform fishes (e.g. Owens suckers, speckled dace). In order to minimize potential impacts to fish species, Permittee shall make all reasonable efforts to capture and move all stranded aquatic life observed in dewatered areas when project construction commences. Capture methods may include fish landing nets, dip nets, buckets and by hand. Captured aquatic life shall be released immediately into the waterway in reaches where fish are likely to survive.
- 2.12 Vegetation removal shall be completed by hand when feasible. Herbicides shall not be used without prior consultation with CDFW. Cleared or trimmed vegetation and woody debris may be disposed of at an approved disposal facility off-site or used for chipping and/or erosion control on-site. Fallen trees, tree limbs, and other large woody debris may be used for bank stabilization or used to enhance wildlife habitat. Vegetation along waterways shall not be disturbed or removed in excess of what is necessary to accomplish maintenance activities described in this

Agreement or as otherwise authorized by CDFW. Precautions shall be taken to avoid damage to non-target vegetation by people or equipment. Where appropriate, roots and stumps may be left to facilitate regrowth.

- 2.13 If native trees or woody riparian vegetation greater or equal to 4-inches DBH need to be removed, the Permittee shall consult with CDFW prior to beginning work. Where native trees or woody riparian vegetation split into several trunks close to ground level, the DBH shall be measured for each trunk and calculated as one tree. All native trees removed with a DBH equal to or greater than 4-inches require mitigation. Permittee shall mitigate for adverse impacts to native tree species by planting a replacement-to-impact ratio of 3:1 from a local source at a location approved by CDFW. If native trees greater or equal to 12 inches DBH are removed, they shall be replaced by native tree species planted at a 10:1 ratio from a local source approved by CDFW. A mitigation and monitoring plan identifying success criteria of the plantings shall be developed and approved by CDFW prior to beginning work.
- 2.14 Permittee is encouraged to remove non-native vegetation, including stumps and roots, from all jurisdictional areas. Non-native species includes but is not limited to, tamarisk (*Tamarix ramosissima*), Russian olive (*Eleaegnus angustifolia*), giant reed arundo (*Arundo donax*) and pepperweed (*Lepidium latifolium*). Non-native vegetation shall be removed in a manner so that it does not propagate. Any non-native and invasive plant species removed shall be disposed of at a location approved by Permittee's qualified biologist. These areas shall be re-vegetated with native species for erosion control, if necessary.
- 2.15 If the gradient of any CDFW jurisdictional drainages are altered during work activities, Permittee shall return its contours as close as possible to pre-project conditions. Pre-project condition shall be defined by engineered plans established prior to commencement of project activities. Permittee shall be liable for restoration of contours to pre-project conditions in the event that subsequent erosion is caused by the work conducted.
- 2.16 Sediment and erosion control materials such as, weed-free fiber or straw wattles, silt fencing, sand bags, sand and gravel berms and/or similar containment materials, shall be installed prior to and during construction activities to prevent the release of disturbed soils and fill into waterways. Permittee shall avoid using mechanical equipment in areas that will impact riparian vegetation.
- 2.17 The upstream and downstream limits of the work site where work activities are to occur shall be identified with brightly colored flagging. All other areas within the riparian corridor shall be avoided. The work site limits shall not extend beyond the Permittee's right-of-way or temporary easements and shall be restricted to an area within 100 feet upstream and 100 feet downstream of the work site. Flagging shall be removed when the activity is complete.

- 2.18 When work in a flowing waterway is unavoidable, the entire stream flow shall be diverted around the work area by a sandbag barrier, temporary culvert, or new channel. 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 banks or barriers shall not be made of earth or other substances subject to erosion unless first enclosed by sheet piling, rock rip-rap, or other protective material. The enclosure and supportive material shall be removed when the work is completed and removal shall normally proceed from downstream in an upstream direction. Upon completion of project activities, all temporary diversion channels and the original low-flow channel shall be restored to their pre-existing elevations, gradients, and contours. Flow diversion shall be conducted in a manner that shall prevent pollution and/or siltation, and which shall provide required flows to downstream reaches at all times to support aquatic life. Said flows shall be of sufficient quality and quantity, and of appropriate temperature to support aquatic life both above and below the diversion. Normal flows shall be restored to the effected stream immediately upon completion of work at that location.
- 2.19 Rock, gravel, and/or other materials shall not be imported into, taken from or moved within the bed or banks of a stream or wetland, except as otherwise described by Permittee in its annual work plan to be provided to CDFW as described under "Reporting Requirements" below. Clean rock rip-rap may be replenished in order to maintain bank stability in previously rip-rapped areas. Fill length, width, and height dimensions shall not exceed those of the original installation or the original naturally occurring topography, contour, and elevation. Fill construction materials shall consist of clean silt-free gravel or rock.
- 2.20 Permittee shall make sure that all vehicles and equipment are thoroughly cleaned with a high-pressure washer before traveling from areas of known invasive weed infestation to avoid the spread of non-native invasive plant species and their seeds. Equipment that has been used in other watercourses should be pressure washed to be free of water, mud, and debris that could harbor and transport invasive nonnative species, especially the New Zealand mud snail and zebra mussel.
- 2.21 Vehicle access to streams and wetlands shall be limited to ingress and egress points on existing roads, or where there is no existing ingress and egress access will be limited to the smallest possible area required for entry. All other natural areas shall remain off-limits to vehicles.
- 2.22 Only the bucket of the excavator/backhoe may operate in water-covered portions of a waterway. At no time shall the main body of the excavator/backhoe enter water-covered portions of the waterway, or where wetland vegetation, riparian vegetation, or aquatic organisms may be destroyed. Sediment control measures to minimize turbidity/siltation shall be implemented.

- 2.23 Staging/storage areas for equipment and materials shall be located outside of all waterways. All equipment shall stay within the confines of the work area limits and previously disturbed staging areas such as roads and parking lots.
- 2.24 Permittee shall evaluate construction equipment daily for leaks and spills and communicate effectively with construction crews in a timely manner to avoid unnecessary impacts to any water resource.
- 2.25 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 equipment is operated in or near a riverbed, absorbent pads and plastic sheeting for placement beneath motorized equipment shall be used to protect the riverbed from any vehicle/equipment fluid leaks. In the event of a spill, Permittee shall make required notifications and immediately initiate the cleanup activities. CDFW shall be notified by the Permittee and consulted regarding clean-up procedures. Additional response procedures shall be met as depicted in Permittee's pollution response and prevention (BMP) Field Manual and Training Guide, NDPEs, and SWQH Plans.
- 2.26 Fueling and maintenance of vehicles and other equipment shall occur at least 300 feet from any storm drain, riparian scrub habitat, wetland, water body, wash, or streambed, except at existing facilities with adequate spill control to prevent spills from affecting these resources. Hazardous substances shall be stored in staging areas that are located at least 100 feet from ephemeral and intermittent streams and 300 feet from perennial streams, lakes, and wetlands. Permittee shall ensure that contamination of these habitats, as well as upland habitats, does not occur during such activities.
- 2.27 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 ensure compliance.
- 2.28 Pursuant to Section 5650 of the FGC, Permittee shall not use any chemicals, herbicides, or other substance or material deleterious to fish, plant life, or bird life, near a water body where it can pass into any Waters of the State.
- 2.29 Spoil sites shall not be located within a stream/lake or locations that may be subjected to high storm flows, where spoil has the potential to be washed back into a stream/lake, or where it will impact streambed habitat, aquatic or riparian vegetation.
- 2.30 No broken concrete, debris, soil, silt, sand, bark, slash, sawdust, rubbish, cement or concrete or washings thereof, oil or petroleum products or other organic or earthen material from any construction, or associated activity of whatever nature shall be allowed to enter into or placed where it may be washed by rainfall or runoff into Waters of the State. When work activities are completed, any excess materials

or debris shall be removed from the work area. No rubbish shall be deposited within 300 feet of the high water mark of any stream or lake.

2.31 Permittee shall initiate a trash abatement program before starting Authorized Work Activities and shall continue the program for the duration of the Agreement. Permittee shall ensure that trash and food items are contained in closed (animal proof) containers and removed daily to avoid attracting opportunistic predators such as ravens, coyotes, and feral dogs.

2.32 Change of Conditions. Permittee shall notify CDFW of any change of conditions to the Project, the jurisdictional impacts, or the mitigation efforts, if the conditions at the site of a proposed project change in a manner which increases or decreases the risk that a fish or wildlife resource may be substantially adversely affected by the proposed project. The notifying report shall be provided to CDFW no later than seven (7) days after the change of conditions is identified. As used here, change of condition refers to the process, procedures, and methods of operation of a project, the biological and physical characteristics of a project area, or the laws or regulations pertinent to the project as defined below. A copy of the notifying change of conditions report shall be included in the annual reports described below.

a. Biological conditions: a change in biological conditions includes, but is not limited to, the following:

- I. the presence of a fish or wildlife resource within or adjacent to the project area, whether native or non-native, not previously known to occur in the area; or
- II. the presence of a fish or wildlife resource within or adjacent to the project area, whether native or non-native, the status of which has changed to endangered, rare, or threatened, as defined in section 15380 of Title 14 of the California Code of Regulations.

b. Physical conditions: a change in physical conditions includes, but is not limited to, the following:

- I. a change in the morphology of a river, stream, or lake, such as the lowering of a bed or scouring of a bank, or changes in stream form and configuration caused by flooding;
- II. the movement of a river or stream channel to a different location;
- III. a reduction of or other change in riparian vegetation on the bed, channel, or bank of a river, stream, or lake, or

IV. changes to the hydrologic regime such as fluctuations in the timing or volume of water flows in a river or stream.

- c. Legal conditions: a change in legal conditions includes, but is not limited to, a change in Regulations, Statutory Law, a Judicial or Court decision, or the listing of a species, the status of which has changed to endangered, rare, or threatened, as defined in section 15380 of Title 14 of the California Code of Regulations.

3. Reporting Measures

- 3.1 Notification Request Form (NRF). Permittee shall submit a proposed maintenance notification (NRF) to CDFW *at least* two weeks prior to the beginning of work. Notification shall be transmitted by email to Heidi.Sickler@wildlife.ca.gov. The subject line of any electronic mail pursuant to this term shall contain the phrase "1602 work advisory - SAA # 1600-2012-0061-R6." Upon receipt of a NRF, CDFW shall determine if the maintenance work may proceed as scheduled, and that it meets the required avoidance measures and authorized work described in this Agreement, or if the work may not be executed under this Agreement and will require a separate 1600 notification and CEQA analysis. Permittee shall also notify CDFW upon the completion of authorized work described in the NRF.
- 3.2 Annual Reports. An Annual Report shall be submitted by Permittee in conjunction with the anticipated work plan by December 31 of each year summarizing the location and type all maintenance activities, including any problems relating to the protective measures of this Agreement that occurred during the calendar year. If any biological surveys or monitoring was performed during the calendar year, Permittee shall attach the monitoring reports and biological survey reports as an appendix to the annual report. Permittee shall also summarize activities anticipated for the following calendar year. These reports will at a minimum provide dates, personnel, name of the project, results, and actions taken if any. An analysis of the effectiveness of the conditions of this Agreement relative to minimize impacts to fish and wildlife shall also be included along with suggestions for improvement.
- 3.3 Status Reports. Every four years during the term of this Agreement, until the Agreement expires, a Status Report shall be submitted to CDFW no later than 60 days prior to the end of each four year period, and shall include the following information:
- a. a copy of the original Agreement and any Amendments;
 - b. the status of the activities covered by the Agreement;
 - c. an evaluation of the success or failure of the measures in the Agreement to protect the fish and wildlife resources that the activity may substantially adversely affect;

- 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.

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:

Mr. Mark Heckman
California Department of Transportation, District 9
Eastern Sierra Environmental Branch
500 South Main Street
Bishop, CA 93514
(760) 872-8402 Fax
mark_heckman@dot.ca.gov

To CDFW:

Department of Fish and Wildlife
Inland Deserts Region
407 West Line Street
Bishop, CA 93514
Attn: Lake and Streambed Alteration Program – Heidi Sickler
Notification #1600-2013-0161-R6
(760) 872- 1284 Fax
Heidi.Sickler@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 one extension of the Agreement, 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
http://www.wildlife.ca.gov/habcon/ceqa/ceqa_changes.html.

TERM

This Agreement shall expire on **December 31, 2024** 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.

ATTACHMENTS

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

- A. Attachment A. RMA Covered Waterways
- B. Attachment B. Maintenance Notification Request Form

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.

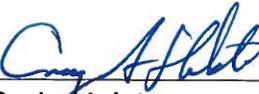
AUTHORIZATION

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 CALTRANS



Craig Holste

3/11/14

Date

Caltrans Deputy Director of Maintenance and
Operations

FOR DEPARTMENT OF FISH AND WILDLIFE

Heidi Sickler

3/13/14

for Leslie MacNair
Environmental Program Manager

Date

Prepared by: Heidi Sickler
CDFW Senior Environmental Scientist

Mark Heckman
Caltrans Associate Environmental Planner

Caltrans District 9
1600 Permit

Crossing	COUNTY	RTE	PM	Stream Name	Flow	TOWNSHIP	RANGE	SECTION	COMMENT	APN	USGS 7.5 Quad	Latitude	Longitude	WaterBody
0	MNO	395	119.9		Intermittent	10N	22E	27			TOPAZ LAKE	38.67874721220	-119.54802409600	Topaz Lake
1	MNO	395	120.1	California Creek	Perennial	10N	22E	27			TOPAZ LAKE	38.68135239570	-119.54807733800	Topaz Lake
2	MNO	395	120.2		Intermittent	10N	22E	27			TOPAZ LAKE	38.68392404650	-119.54842594500	Topaz Lake
3	MNO	395	118.8		Intermittent	10N	22E	34			TOPAZ LAKE	38.66531937320	-119.54295514100	Topaz Lake
4	MNO	395	118.5		Intermittent	09N	22E	2			TOPAZ LAKE	38.66166084690	-119.54013390100	Topaz Lake
5	MNO	395	118.3		Intermittent	09N	22E	2			TOPAZ LAKE	38.65927841990	-119.53902004800	Topaz Lake
6	MNO	89	1.4		Intermittent	09N	22E	10			TOPAZ LAKE	38.64215455570	-119.55105873400	Topaz Lake
7	MNO	395	116.7		Canal/Ditch	09N	22E	11			TOPAZ LAKE	38.63828312270	-119.525992777800	Topaz Lake
8	MNO	89	4.2		Intermittent	09N	22E	5			TOPAZ LAKE	38.65522793230	-119.59574488400	Topaz Lake
9	MNO	89	3.2		Intermittent	09N	22E	5			TOPAZ LAKE	38.65423822410	-119.57781638400	Topaz Lake
10	MNO	395	116.1	Swager Ditch	Canal/Ditch	09N	22E	14	0106027		TOPAZ LAKE	38.63037933490	-119.52397190100	Topaz Lake
11	MNO	395	107.1	Mill Creek	Intermittent	08N	23E	29			RISUE CANYON	38.51331147200	-119.47138206900	Topaz Lake
12	MNO	395	108.9		Perennial	08N	23E	18			RISUE CANYON	38.53235964390	-119.49104525700	Topaz Lake
13	MNO	395	109.2		Intermittent	08N	23E	18	0244023		RISUE CANYON	38.53601906440	-119.49397206800	Topaz Lake
14	MNO	395	R114	Swager Ditch	Canal/Ditch	09N	22E	25			COLEVILLE	38.60113692110	-119.51845426700	Topaz Lake
15	MNO	395	R113.7	Alkali Ditch	Canal/Ditch	09N	22E	25			COLEVILLE	38.59769031580	-119.51890495000	Topaz Lake
16	MNO	395	111.4		Intermittent	08N	22E	1			COLEVILLE	38.56490198580	-119.50683286500	Topaz Lake
17	MNO	395	111.9		Canal/Ditch	08N	22E	1			COLEVILLE	38.57175713560	-119.50986493500	Topaz Lake
18	MNO	182	11.3		Intermittent	06N	26E	6			SWEETWATER CREEK	38.40352926410	-119.17173289200	Walker Lake
19	MNO	182	10.5		Canal/Ditch	06N	25E	1			SWEETWATER CREEK	38.39244994920	-119.17835214600	Walker Lake
20	MNO	182	11.2		Canal/Ditch	06N	25E	1			SWEETWATER CREEK	38.40179253530	-119.17327184000	Walker Lake
21	MNO	182	10.5		Canal/Ditch	06N	25E	1			SWEETWATER CREEK	38.39321719220	-119.17806305100	Walker Lake
22	MNO	182	11.1		Canal/Ditch	06N	25E	1			SWEETWATER CREEK	38.4017790220	-119.17357241200	Walker Lake
23	MNO	182	10.7		Canal/Ditch	06N	25E	1			SWEETWATER CREEK	38.39641313760	-119.17686285500	Walker Lake
24	MNO	182	10.7		Canal/Ditch	06N	25E	1			SWEETWATER CREEK	38.39546099220	-119.17720905300	Walker Lake
25	MNO	182	9.8		Intermittent	06N	25E	12			SWEETWATER CREEK	38.38459965960	-119.18512526300	Walker Lake
26	MNO	182	11.7	Fryingpan Creek	Perennial	07N	26E	31	0320003		SWEETWATER CREEK	38.40841468540	-119.17012429500	Walker Lake
27	MNO	395	97.1	Grouse Creek	Perennial	06N	23E	4			CHRIS FLAT	38.39434390080	-119.45271668900	Topaz Lake
28	MNO	395	96.4	Driveway Creek	Perennial	06N	23E	9			CHRIS FLAT	38.38402499120	-119.45265165900	Topaz Lake
29	MNO	182	7.1		Perennial	06N	25E	23			BRIDGEPORT	38.35201506500	-119.20342488300	Walker Lake
30	MNO	182	7.2		Intermittent	06N	25E	23			BRIDGEPORT	38.35329030230	-119.20239312100	Walker Lake
31	MNO	182	6.3	East Walker River	Perennial	06N	25E	26			BRIDGEPORT	38.34231465040	-119.20790478000	Walker Lake
32	MNO	182	5.1		Intermittent	06N	25E	34			BRIDGEPORT	38.32695667740	-119.21113082900	Walker Lake
33	MNO	182	8.7	Murphy Creek	Perennial	06N	25E	14			BRIDGEPORT	38.37127795460	-119.19531896200	Walker Lake
34	MNO	182	1.8		Intermittent	05N	25E	21			BRIDGEPORT	38.28075921490	-119.21729962200	Bridgeport Reservoir
35	MNO	182	0.1		Perennial	05N	25E	33			BRIDGEPORT	38.25591373290	-119.22261512100	Bridgeport Reservoir
36	MNO	395	76.9		Canal/Ditch	05N	25E	32			BRIDGEPORT	38.25639732370	-119.23376110300	Bridgeport Reservoir
37	MNO	182	2.3		Intermittent	05N	25E	16			BRIDGEPORT	38.28806565040	-119.21491070000	Bridgeport Reservoir
38	MNO	182	0.2		Perennial	05N	25E	28			BRIDGEPORT	38.25802315780	-119.22199267700	Bridgeport Reservoir
39	MNO	182	3.7		Intermittent	05N	25E	9			BRIDGEPORT	38.30792643550	-119.21400790000	Bridgeport Reservoir
40	MNO	182	2.8		Intermittent	05N	25E	15			BRIDGEPORT	38.29466913230	-119.21275716600	Bridgeport Reservoir
41	MNO	395	76.3	East Walker River	Perennial	05N	25E	33	0814001		BRIDGEPORT	38.25570374550	-119.22358075800	Bridgeport Reservoir
42	MNO	182	4.7		Intermittent	06N	25E	34	0712009		BRIDGEPORT	38.32090784160	-119.21106288300	Bridgeport Reservoir
43	MNO	395	84		Perennial	06N	24E	35			MOUNT JACKSON	38.31804653700	-119.31405269900	Bridgeport Reservoir
44	MNO	395	82.9		Intermittent	05N	24E	10			MOUNT JACKSON	38.30140521430	-119.31235225200	Bridgeport Reservoir
45	MNO	395	83.3	Long Valley Creek	Perennial	05N	24E	10			MOUNT JACKSON	38.30729219520	-119.31413352300	Bridgeport Reservoir

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Crossing	COUNTY	RTE	PM	Stream Name	Flow	TOWNSHIP	RANGE	SECTION	COMMENT	APN	USGS 7.5 Quad	Latitude	Longitude	WaterBody
46	MNO	395 82.5			Intermittent	05N	24E	15			MOUNT JACKSON	38.29608945720	-119.31051929000	Bridgeport Reservoir
47	MNO	395 81.9			Intermittent	05N	24E	15			MOUNT JACKSON	38.28898563500	-119.30617434100	Bridgeport Reservoir
48	MNO	395 82.5			Perennial	05N	24E	15			MOUNT JACKSON	38.29655898010	-119.31068631100	Bridgeport Reservoir
49	MNO	395 79.1			Perennial	05N	24E	25		0719005	MOUNT JACKSON	38.25845461340	-119.27220929500	Bridgeport Reservoir
50	MNO	395 79.5		Buckeye Creek	Perennial	05N	24E	25		0719003	MOUNT JACKSON	38.26375028360	-119.27227826800	Bridgeport Reservoir
51	MNO	395 79.4			Intermittent	05N	24E	25		0719003	MOUNT JACKSON	38.26219276600	-119.27579345400	Bridgeport Reservoir
52	MNO	395 79.4			Canal/Ditch	05N	24E	25		0719003	MOUNT JACKSON	38.26271241060	-119.27628880800	Bridgeport Reservoir
53	MNO	395 79.2		Robinson Creek	Intermittent	05N	24E	25		0719003	MOUNT JACKSON	38.25982514780	-119.27352940100	Bridgeport Reservoir
54	MNO	395 85.771		Swauger Creek	Perennial	06N	23E	15			FALES HOT SPRINGS	38.33386455490	-119.31936984700	Bridgeport Reservoir
55	MNO	395 95.4		Little Walker River	Perennial	06N	23E	15			FALES HOT SPRINGS	38.37105499260	-119.44533847700	Topaz Lake
56	MNO	395 91.6		Hot Creek	Perennial	06N	23E	23			FALES HOT SPRINGS	38.35339803510	-119.42451138400	Topaz Lake
57	MNO	395 90.5		Hot Creek	Perennial	06N	23E	24			FALES HOT SPRINGS	38.35265559970	-119.40472794600	Topaz Lake
58	MNO	395 90.1			Intermittent	06N	23E	24			FALES HOT SPRINGS	38.35151318530	-119.39895017100	Topaz Lake
59	MNO	395 92.6		Hot Creek	Perennial	06N	23E	27			FALES HOT SPRINGS	38.34336211030	-119.43873223100	Topaz Lake
60	MNO	108 13.5			Perennial	06N	23E	17			FALES HOT SPRINGS	38.36203967300	-119.47312770500	Topaz Lake
61	MNO	108 14.3			Canal/Ditch	06N	23E	21			FALES HOT SPRINGS	38.35420198380	-119.46545530400	Topaz Lake
62	MNO	108 14.6		Junction Creek	Perennial	06N	23E	21			FALES HOT SPRINGS	38.35101708430	-119.46113751500	Topaz Lake
63	MNO	108 15		Little Walker River	Perennial	06N	23E	21			FALES HOT SPRINGS	38.34895396170	-119.45391700300	Topaz Lake
64	MNO	108 9		Cloudburst Creek	Perennial	06N	22E	27			PICKEL MEADOW	38.34492802340	-119.54503278900	Topaz Lake
65	MNO	108 8.9			Perennial	06N	22E	27			PICKEL MEADOW	38.34415194160	-119.54605978000	Topaz Lake
66	MNO	108 8.4		Little Wolf Creek	Perennial	06N	22E	27			PICKEL MEADOW	38.33877727630	-119.54976200900	Topaz Lake
67	MNO	108 9.5		Wolf Creek	Perennial	06N	22E	22			PICKEL MEADOW	38.34854410030	-119.53779150700	Topaz Lake
68	MNO	108 10.2			Perennial	06N	22E	23			PICKEL MEADOW	38.35259028140	-119.52586218700	Topaz Lake
69	MNO	108 11		Silver Creek	Perennial	06N	22E	24			PICKEL MEADOW	38.35702193220	-119.51223625300	Topaz Lake
70	MNO	108 11.4			Perennial	06N	22E	24			PICKEL MEADOW	38.35772129500	-119.50675965200	Topaz Lake
71	MNO	108 4		Sardine Creek	Perennial	05N	22E	6		0601007	PICKEL MEADOW	38.30761997960	-119.59098208600	Topaz Lake
72	MNO	108 3		Sardine Creek	Perennial	05N	22E	6			PICKEL MEADOW	38.31244862780	-119.59989675200	Topaz Lake
73	MNO	108 1.5			Perennial	06N	21E	36		0601007	PICKEL MEADOW	38.32628186020	-119.61455812900	Topaz Lake
74	MNO	108 1.1			Perennial	06N	21E	36		0601007	PICKEL MEADOW	38.32843666960	-119.62097899000	Topaz Lake
75	MNO	108 1		Sardine Creek	Perennial	06N	21E	36		0601007	PICKEL MEADOW	38.32800204760	-119.62330348300	Topaz Lake
76	MNO	108 7.9		Brownie Creek	Perennial	06N	22E	27		0606017	PICKEL MEADOW	38.33256929520	-119.55378170000	Topaz Lake
77	MNO	108 0.5		Sardine Creek	Perennial	06N	21E	35			SONORA PASS	38.32793527260	-119.62965306100	Topaz Lake
78	MNO	270 5.2			Intermittent	04N	26E	33			BODIE	38.16375409030	-119.11665581800	Bridgeport Reservoir
79	MNO	270 5.7			Intermittent	04N	26E	33			BODIE	38.16277355480	-119.10940000200	Bridgeport Reservoir
80	MNO	270 9.5			Perennial	04N	26E	24			BODIE	38.18912027150	-119.05564662800	Mono Lake
81	MNO	270 9.1			Perennial	04N	26E	24			BODIE	38.18506706780	-119.05908075100	Mono Lake
82	MNO	270 8.7			Intermittent	04N	26E	25			BODIE	38.18324964490	-119.06721929300	Mono Lake
83	MNO	270 6.4		Cleanwater Creek	Intermittent	04N	26E	34			BODIE	38.16707950690	-119.09908763300	Bridgeport Reservoir
84	MNO	395 0			Perennial	04N	25E	26			BIG ALKALI	38.17523992620	-119.19479363900	Bridgeport Reservoir
85	MNO	270 0.9		Cleanwater Creek	Perennial	04N	26E	32			BIG ALKALI	38.17310705630	-119.17903572200	Bridgeport Reservoir
86	MNO	270 4.6			Perennial	04N	26E	32			BIG ALKALI	38.16904243000	-119.12610454300	Bridgeport Reservoir
87	MNO	270 4.5			Intermittent	04N	26E	32			BIG ALKALI	38.16890030860	-119.12641286500	Bridgeport Reservoir
88	MNO	270 2.8			Intermittent	04N	26E	31			BIG ALKALI	38.16495666830	-119.15178124200	Bridgeport Reservoir
89	MNO	395 74			Canal/Ditch	04N	25E	9			BIG ALKALI	38.22280012760	-119.22827137500	Bridgeport Reservoir
90	MNO	395 73.4			Canal/Ditch	04N	25E	9			BIG ALKALI	38.21527406800	-119.23080713600	Bridgeport Reservoir
91	MNO	395 70.4			Intermittent	04N	25E	27		1107003	BIG ALKALI	38.18281222560	-119.19753848900	Bridgeport Reservoir

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92	MNO	395	74.6		Intermittent	04N	25E	4		1103007	BIG ALKALI	38.23124368910	-119.22542223100	Bridgeport Reservoir
93	MNO	167	9.6		Intermittent	03N	27E	28		1320009	SULPHUR POND	38.09634440680	-118.99623376000	Mono Lake
94	MNO	167	6.7		Intermittent				0 MONO LAKE		NEGIT ISLAND	38.08037306610	-119.04542907500	Mono Lake
95	MNO	167	4.7		Intermittent				0 MONO LAKE		NEGIT ISLAND	38.06898167450	-119.08035501700	None
96	MNO	167	7.3		Intermittent				0 MONO LAKE		NEGIT ISLAND	38.08336230380	-119.03629186500	None
97	MNO	167	2.1		Canal/Ditch	02N	26E	5			NEGIT ISLAND	38.05459581370	-119.12458262900	Mono Lake
98	MNO	395	55.2		Intermittent				0 MONO LAKE		LUNDY	38.00396766260	-119.153333592900	Mono Lake
99	MNO	395	56.2	Dechambeau Creek	Perennial				0 MONO LAKE		LUNDY	38.1184525280	-119.15668118700	Mono Lake
100	MNO	395	65.7		Intermittent	03N	25E	14			LUNDY	38.117760999600	-119.17904843300	Bridgeport Reservoir
101	MNO	395	65.2		Intermittent	03N	25E	23			LUNDY	38.11118550770	-119.17760999600	Bridgeport Reservoir
102	MNO	395	59.8		Canal/Ditch	02N	25E	1			LUNDY	38.06701448260	-119.16932675900	Mono Lake
103	MNO	167	1.8	Wilson Creek	Perennial	02N	26E	8			LUNDY	38.05334881000	-119.12828501900	Mono Lake
104	MNO	395	57.8	Mill Creek	Perennial	02N	26E	18			LUNDY	38.03988994840	-119.15868710500	Mono Lake
105	MNO	395	55.3		Intermittent				0 MONO LAKE	2106001	LUNDY	38.00510635250	-119.15394823400	Mono Lake
106	MNO	395	59		Canal/Ditch	02N	25E	1		1910003	LUNDY	38.05637229610	-119.16614625300	Mono Lake
107	MNO	395	61.7		Intermittent	03N	25E	36		1120003	LUNDY	38.08239862740	-119.16734569900	Mono Lake
108	MNO	395	60		Intermittent	03N	25E	36		1120003	LUNDY	38.06955332700	-119.16989965200	Mono Lake
109	MNO	395	61		Intermittent	03N	26E	31		1128018	LUNDY	38.08167277570	-119.15829628600	Mono Lake
110	MNO	395	58.6	Wilson Creek	Perennial	02N	25E	12		1910010	LUNDY	38.05060107590	-119.16413776800	Mono Lake
111	MNO	6	30.2		Intermittent	01S	32E	9			TRUMAN MEADOWS	37.88133537360	-118.46095290100	None
112	MNO	6	32.2		Intermittent	01N	32E	34			TRUMAN MEADOWS	37.90028499120	-118.43650537700	None
113	MNO	6	30.9		Intermittent	01S	32E	4			TRUMAN MEADOWS	37.88750061780	-118.45299749800	None
114	MNO	6	29.9		Intermittent	01S	32E	8			TRUMAN MEADOWS	37.87749914180	-118.46581781700	None
115	MNO	120	44		Intermittent	01S	30E	2			INDIAN MEADOWS	37.88848009540	-118.63665735500	None
116	MNO	120	42.8		Intermittent	01S	30E	34			INDIAN MEADOWS	37.89734136110	-118.65536766600	None
117	MNO	120	44.6		Intermittent	01S	30E	1			INDIAN MEADOWS	37.88332461980	-118.62799264900	None
118	MNO	120	43.1		Intermittent	01S	30E	3			INDIAN MEADOWS	37.89532857290	-118.65111264300	None
119	MNO	120	42.6		Intermittent	01N	30E	34		1827005	INDIAN MEADOWS	37.89886012510	-118.65857422100	None
120	MNO	120	42.3		Intermittent	01N	30E	34		1827005	INDIAN MEADOWS	37.90107784200	-118.66327794600	None
121	MNO	120	42.1		Intermittent	01N	30E	33		1827005	INDIAN MEADOWS	37.90235116380	-118.66596289600	None
122	MNO	120	41.7		Intermittent	01N	30E	33		1828010	INDIAN MEADOWS	37.90540004220	-118.67240104100	None
123	MNO	120	41.3		Intermittent	01N	30E	33		1828010	INDIAN MEADOWS	37.90885547890	-118.67969849900	None
124	MNO	120	40.5		Intermittent	01N	30E	29		1828009	INDIAN MEADOWS	37.91493113400	-118.69221295500	None
125	MNO	120	40		Intermittent	01N	30E	29		1828001	INDIAN MEADOWS	37.91862239980	-118.69972646300	None
126	MNO	120	40.2	Adobe Creek	Perennial	01N	30E	29		1828001	INDIAN MEADOWS	37.91697134390	-118.69642533800	None
127	MNO	120	32.8		Ephemeral	01S	29E	5			COWTRACK MOUNTAIN	37.88813268200	-118.80815552600	None
128	MNO	120	29.7		Intermittent	01S	28E	2			COWTRACK MOUNTAIN	37.89436062930	-118.85250496700	None
129	MNO	120	29.3		Ephemeral	01S	28E	2			COWTRACK MOUNTAIN	37.89300764830	-118.86052932900	None
130	MNO	120	29.6		Ephemeral	01S	28E	2			COWTRACK MOUNTAIN	37.89478072880	-118.85401039600	None
131	MNO	120	31		Intermittent	01N	28E	36			COWTRACK MOUNTAIN	37.89588736670	-118.83715259500	None
132	MNO	120	34.3		Intermittent	01S	29E	4			COWTRACK MOUNTAIN	37.89207836320	-118.78107620200	None
133	MNO	120	23.7		Intermittent	01S	28E	7			MONO MILLS	37.88028017440	-118.93945706500	None
134	MNO	120	22.5		Intermittent	01S	27E	1			MONO MILLS	37.88674506560	-118.95867739500	None
135	MNO	120	22.2		Intermittent	01S	27E	2			MONO MILLS	37.88960726520	-118.96442831500	None
136	MNO	120	20.2		Intermittent	01N	27E	34			MONO MILLS	37.90725341380	-118.99175405400	None
137	MNO	120	27.6	Dry Creek	Intermittent	01S	28E	4			MONO MILLS	37.88279389960	-118.88597763400	None

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138	MNO	395 51.5			Ephemeral	01N	26E	9			LEE VINING	37.9579794920	-119.12024855400	Mono Lake
139	MNO	395 51.4			Ephemeral	01N	26E	9			LEE VINING	37.95671104800	-119.11933106000	Mono Lake
140	MNO	120 15.8			Intermittent	01N	26E	36			LEE VINING	37.90777312380	-119.05530072000	Mono Lake
141	MNO	158 15.5		Parker Creek	Intermittent	01S	26E	3			LEE VINING	37.88918828610	-119.09762975100	Mono Lake
142	MNO	120 R11.1			Perennial	01N	26E	16			LEE VINING	37.93964604240	-119.12269521900	Mono Lake
143	MNO	395 50.9			Perennial	01N	26E	16			LEE VINING	37.95105779520	-119.11621335700	Mono Lake
144	MNO	395 49.7			Intermittent	01N	26E	22			LEE VINING	37.93214733460	-119.10005312400	Mono Lake
145	MNO	395 47.7		Walker Creek	Intermittent	01N	26E	27			LEE VINING	37.91156473330	-119.09607444000	Mono Lake
146	MNO	395 47.5			Perennial	01N	26E	34			LEE VINING	37.90856193120	-119.09549312300	Mono Lake
147	MNO	395 47			Intermittent	01N	26E	34			LEE VINING	37.90164057110	-119.09414453500	Mono Lake
148	MNO	395 47.5			Ephemeral	01N	26E	34			LEE VINING	37.90808217500	-119.09540103000	Mono Lake
149	MNO	395 46.3		Rush Creek	Perennial	01S	26E	3	1402001		LEE VINING	37.89150656000	-119.09152903100	Mono Lake
150	MNO	395 49.4			Intermittent	01N	26E	22			LEE VINING	37.93541374410	-119.10020193800	Mono Lake
151	MNO	395 47.3			Ephemeral	01N	26E	34	2113034		LEE VINING	37.90601896370	-119.09438331200	Mono Lake
152	MNO	395 46.8		Walker Creek	Ephemeral	01N	26E	34			LEE VINING	37.8993845270	-119.09306525900	Mono Lake
153	MNO	395 47.5		Warren Fork	Perennial	01N	26E	34	2113034		LEE VINING	37.908822286220	-119.09493399800	Mono Lake
154	MNO	120 R4.5			Perennial	01N	25E	16			MOUNT DANA	37.95205768810	-119.22600452700	Mono Lake
155	MNO	120 R5.6			Intermittent	01N	25E	15			MOUNT DANA	37.95043103460	-119.20746396000	Mono Lake
156	MNO	120 R6.7			Intermittent	01N	25E	14			MOUNT DANA	37.94776300830	-119.18917766400	Mono Lake
157	MNO	120 R7			Intermittent	01N	25E	14			MOUNT DANA	37.94442499750	-119.18472710200	Mono Lake
158	MNO	120 R1.8		Lee Vining Creek	Perennial	01N	25E	20			MOUNT DANA	37.93447389070	-119.24838315200	Ellery Lake
159	MNO	120 R2.3			Perennial	01N	25E	20			MOUNT DANA	37.93808721530	-119.24626271700	Ellery Lake
160	MNO	395 R54.1			Perennial				0 IMONO LAKE	2105004	MOUNT DANA	37.99047430630	-119.14206510200	Mono Lake
161	MNO	395 54.5			Intermittent				0 IMONO LAKE	2105011	MOUNT DANA	37.99591942040	-119.14512699400	Mono Lake
162	MNO	395 54.8			Ephemeral				0 IMONO LAKE	2106010	MOUNT DANA	37.99954909430	-119.14777917300	Mono Lake
163	MNO	120 R1.1			Perennial	01N	25E	30			TIOGA PASS	37.92687616900	-119.2558285500	Troga Lake
164	MNO	6 29.3			Intermittent	01S	32E	17			BENTON	37.86916015370	-118.47063656300	None
165	MNO	6 28.8			Intermittent	01S	32E	17			BENTON	37.86179743130	-118.47267373300	None
166	MNO	6 29.1			Intermittent	01S	32E	17			BENTON	37.86649646260	-118.47136715100	None
167	MNO	6 28.4			Intermittent	01S	32E	17			BENTON	37.85704145250	-118.47400758100	None
168	MNO	6 28.2			Intermittent	01S	32E	20			BENTON	37.85398373520	-118.47486330500	None
169	MNO	6 27.4			Intermittent	01S	32E	20			BENTON	37.84278614830	-118.47801722800	None
170	MNO	6 27.6			Intermittent	01S	32E	20			BENTON	37.84516086500	-118.47738157800	None
171	MNO	6 28.2			Intermittent	01S	32E	20			BENTON	37.85305957780	-118.47513600400	None
172	MNO	120 58.2			Intermittent	01S	32E	31			BENTON	37.81931813010	-118.49188486300	None
173	MNO	6 22.3		Montgomery Creek	Intermittent	02S	32E	17			BENTON	37.77114859670	-118.46197675600	None
174	MNO	6 24.1			Intermittent	02S	32E	8			BENTON	37.79530531210	-118.46889340600	None
175	MNO	6 21.3			Intermittent	02S	32E	21			BENTON	37.75733436080	-118.45661178600	None
176	MNO	6 21.9			Intermittent	02S	32E	21			BENTON	37.76541182460	-118.46021011900	None
177	MNO	6 21.7			Intermittent	02S	32E	21			BENTON	37.76165920560	-118.45854288800	None
178	MNO	6 20.9			Intermittent	02S	32E	28			BENTON	37.75116354670	-118.45300027700	None
179	MNO	6 21			Intermittent	02S	32E	28			BENTON	37.75254992970	-118.45384969200	None
180	MNO	120 49.1			Intermittent	01S	31E	29			BENTON HOT SPRINGS	37.82778266470	-118.58825915300	None
181	MNO	120 48.4			Intermittent	01S	31E	30			BENTON HOT SPRINGS	37.83752921500	-118.59320535300	None
182	MNO	120 46.4			Intermittent	01S	31E	18			BENTON HOT SPRINGS	37.86370200510	-118.60647425300	None
183	MNO	120 46.1			Intermittent	01S	31E	18			BENTON HOT SPRINGS	37.86892979680	-118.60912944200	None

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Crossing	COUNTY	RTE	PM	Stream Name	Flow	TOWNSHIP	RANGE	SECTION	COMMENT	APN	USGS 7.5 Quad	Latitude	Longitude	WaterBody
184	MNO	120	46.7		Intermittent	01S	31E	18			BENTON HOT SPRINGS	37.86021434270	-118.60470507000	None
185	MNO	120	57.4		Intermittent	01S	31E	36			BENTON HOT SPRINGS	37.82329780130	-118.50541796700	None
186	MNO	120	49.4		Intermittent	01S	31E	32			BENTON HOT SPRINGS	37.82339401580	-118.58603229200	None
187	MNO	120	49.4		Intermittent	01S	31E	32			BENTON HOT SPRINGS	37.82424122720	-118.58645830200	None
188	MNO	120	55.2		Intermittent	02S	31E	2			BENTON HOT SPRINGS	37.80103536990	-118.52762789600	None
189	MNO	120	51		Intermittent	02S	31E	5			BENTON HOT SPRINGS	37.80283983950	-118.57561473900	None
190	MNO	120	45.6		Intermittent	01S	30E	12			BENTON HOT SPRINGS	37.87345640260	-118.6144410663000	None
191	MNO	120	45.7		Intermittent	01S	30E	12			BENTON HOT SPRINGS	37.87255520820	-118.61295156700	None
192	MNO	120	51.8		Intermittent	02S	31E	9			BENTON HOT SPRINGS	37.79218329550	-118.56993478100	None
193	MNO	120	54.6		Intermittent	02S	31E	11			BENTON HOT SPRINGS	37.79574655840	-118.53273200500	None
194	MNO	120	24.6		Intermittent	01S	28E	7			CRESTVIEW	37.87365583190	-118.92615274400	None
195	MNO	120	25.2		Intermittent	01S	28E	8			CRESTVIEW	37.86783722350	-118.91721736300	None
196	MNO	120	25.7		Intermittent	01S	28E	17			CRESTVIEW	37.86425399470	-118.91063519000	None
197	MNO	120	25.8		Intermittent	01S	28E	17			CRESTVIEW	37.86389771130	-118.90936127900	None
198	MNO	120	25.9		Intermittent	01S	28E	17			CRESTVIEW	37.86377360690	-118.90719694100	None
199	MNO	120	26		Intermittent	01S	28E	17			CRESTVIEW	37.86470387350	-118.90587472900	None
200	MNO	395	34.7		Intermittent	02S	27E	22			CRESTVIEW	37.75936718110	-118.98999024000	None
201	MNO	395	35		Intermittent	02S	27E	21			CRESTVIEW	37.76196265920	-118.99404958400	None
202	MNO	395	35.2		Intermittent	02S	27E	21			CRESTVIEW	37.76298072280	-118.99722466200	None
203	MNO	395	35		Ephemeral	02S	27E	21			CRESTVIEW	37.76245052270	-118.99468082600	None
204	MNO	158	13.6		Canal/Ditch	01S	26E	9			JUNE LAKE	37.86644337060	-119.10924638800	Mono Lake
205	MNO	158	10.7		Intermittent	01S	26E	28			JUNE LAKE	37.82612036170	-119.12184879300	Grant Lake
206	MNO	158	10.4		Intermittent	01S	26E	33			JUNE LAKE	37.82213531120	-119.12111948800	Grant Lake
207	MNO	158	9.9		Ephemeral	01S	26E	33			JUNE LAKE	37.81621227740	-119.11592607700	Grant Lake
208	MNO	158	8.2		Intermittent	02S	26E	4			JUNE LAKE	37.79804251390	-119.12050232600	Grant Lake
209	MNO	158	8.1		Intermittent	02S	26E	4			JUNE LAKE	37.79690251290	-119.12114461300	Grant Lake
210	MNO	395	38		Ephemeral	02S	27E	7			JUNE LAKE	37.79141444550	-119.03306289700	None
211	MNO	158	R2.433		Intermittent	02S	26E	11			JUNE LAKE	37.78297948960	-119.07302826100	June Lake
212	MNO	158	7.5		Intermittent	02S	26E	8			JUNE LAKE	37.78844586650	-119.12579801600	Grant Lake
213	MNO	158	7.7		Intermittent	02S	26E	8			JUNE LAKE	37.78844586650	-119.12579801600	Grant Lake
214	MNO	158	3.4	Reversed Creek	Perennial	02S	26E	14			JUNE LAKE	37.79133420860	-119.12420394300	Grant Lake
215	MNO	158	R2.9	Reversed Creek	Intermittent	02S	26E	14			JUNE LAKE	37.77189343900	-119.08386188900	Gull Lake
216	MNO	158	5.5	Reversed Creek	Perennial	02S	26E	21			JUNE LAKE	37.77665249710	-119.07729338100	Gull Lake
217	MNO	158	5.6		Intermittent	02S	26E	21			JUNE LAKE	37.76459005630	-119.11798633000	Silver Lake
218	MNO	158	4.7	Yost Creek	Perennial	02S	26E	21			JUNE LAKE	37.76519004000	-119.12083293100	Silver Lake
219	MNO	158	4.7	Reversed Creek	Perennial	02S	26E	21			JUNE LAKE	37.76392364210	-119.10626503700	Silver Lake
220	MNO	158	5.7	Rush Creek	Perennial	02S	26E	21			JUNE LAKE	37.76435427900	-119.105744453000	Silver Lake
221	MNO	158	4.2		Intermittent	02S	26E	15			JUNE LAKE	37.76792570590	-119.12159702300	Silver Lake
222	MNO	395	45		Intermittent	01S	26E	10	1402009		JUNE LAKE	37.87293822660	-119.09690860900	Silver Lake
223	MNO	158	5	Fern Creek	Perennial	02S	26E	21	1603007		JUNE LAKE	37.76216678680	-119.11141938200	Mono Lake
224	MNO	158	6.9	Alger Creek	Perennial	02S	26E	17			KOIP PEAK	37.78035635090	-119.12833976900	Silver Lake
225	MNO	158	6.8		Perennial	02S	26E	17			KOIP PEAK	37.77931138960	-119.12918198900	Silver Lake
226	MNO	6	R17.9		Intermittent	03S	32E	3			HAMMIL VALLEY	37.71231014510	-118.42924097500	None
227	MNO	6	R17.9		Intermittent	03S	32E	3			HAMMIL VALLEY	37.71316660980	-118.42975459700	None
228	MNO	6	R17.5		Intermittent	03S	32E	10			HAMMIL VALLEY	37.70706915320	-118.42604779800	None
229	MNO	6	R11.8	Lone Tree Creek	Intermittent	04S	32E	1			HAMMIL VALLEY	37.63035604830	-118.39637463400	None

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Crossing	COUNTY	RTE	PM	Stream Name	Flow	TOWNSHIP	RANGE	SECTION	COMMENT	APN	USGS 7.5 Quad	Latitude	Longitude	WaterBody
230	MNO	6	20.1		Intermittent	025	32E	28			HAMMIL VALLEY	37.74141523960	-118.44703386400	None
231	MNO	6	20.1		Intermittent	025	32E	28			HAMMIL VALLEY	37.74112480170	-118.44685684200	None
232	MNO	6	20.5	Marble Creek	Intermittent	025	32E	28			HAMMIL VALLEY	37.74648404580	-118.45013653300	None
233	MNO	6	19.5		Intermittent	025	32E	28			HAMMIL VALLEY	37.73944688820	-118.44583421800	None
234	MNO	6	19.5		Intermittent	025	32E	34			HAMMIL VALLEY	37.73279719350	-118.44174597100	None
235	MNO	6	19.5		Intermittent	025	32E	34			HAMMIL VALLEY	37.73353888500	-118.44221882100	None
236	MNO	6	R16.7		Intermittent	035	32E	11	2519015		HAMMIL VALLEY	37.69667130190	-118.41968366000	None
237	MNO	6	R15.6		Intermittent	035	32E	14	2520039		HAMMIL VALLEY	37.68333726350	-118.41154499000	None
238	MNO	395	33.3		Intermittent	025	27E	27			OLD MAMMOTH	37.74288810950	-118.97610242900	Lake Crowley
239	MNO	395	33.8	Deadman Creek	Perennial	025	27E	27			OLD MAMMOTH	37.74831212000	-118.98172576700	Lake Crowley
240	MNO	395	R26.8		Intermittent	035	28E	30			OLD MAMMOTH	37.65369687150	-118.92401896000	Lake Crowley
241	MNO	203	R3.8		Intermittent	035	27E	28			OLD MAMMOTH	37.65582456960	-118.99560564900	Lake Crowley
242	MNO	395	R24.8		Intermittent	035	28E	32			OLD MAMMOTH	37.63758900730	-118.90004752900	Lake Crowley
243	MNO	395	R25.3		Perennial	035	28E	32			OLD MAMMOTH	37.63831692310	-118.90860318000	Lake Crowley
244	MNO	395	R25	Mammoth Creek	Perennial	035	28E	32			OLD MAMMOTH	37.63770935130	-118.90371331200	Lake Crowley
245	MNO	395	30.7	Dry Creek	Intermittent	035	27E	1			OLD MAMMOTH	37.70987415800	-118.95322961000	Lake Crowley
246	MNO	395	30.1		Intermittent	035	27E	12			OLD MAMMOTH	37.70147943080	-118.95070004800	Lake Crowley
247	MNO	395	R26.3	Hot Creek	Intermittent	035	28E	31			OLD MAMMOTH	37.64728684860	-118.92341885000	Lake Crowley
248	MNO	203	R8.2		Intermittent	035	28E	31			OLD MAMMOTH	37.63998245660	-118.92223469600	Lake Crowley
249	MNO	203	5.1		Intermittent	035	27E	34			OLD MAMMOTH	37.64878861360	-118.97671455400	Lake Crowley
250	MNO	203	R4.6		Intermittent	035	27E	34			OLD MAMMOTH	37.65053277840	-118.98467384200	Lake Crowley
251	MNO	203	5.5		Intermittent	035	27E	35			OLD MAMMOTH	37.64763089450	-118.96944818100	Lake Crowley
252	MNO	395	23.6		Intermittent	045	28E	3			OLD MAMMOTH	37.63386870600	-118.87963672000	Lake Crowley
253	MNO	203	R0.5		Perennial	035	27E	31			MAMMOTH MOUNTAIN	37.65066609480	-119.03795274000	Lake Crowley
254	MNO	203	R0.2		Perennial	035	27E	31			MAMMOTH MOUNTAIN	37.65076091580	-119.04326081900	Lake Crowley
255	MNO	203	R1.6	Dry Creek	Perennial	035	27E	32			MAMMOTH MOUNTAIN	37.65117352800	-119.02434823500	Lake Crowley
256	MNO	266	7.9		Intermittent	055	37E	8	2714009		INDIAN GARDEN CREEK	37.52810508560	-117.94585964100	None
257	MNO	266	7.7		Intermittent	055	37E	8	2714009		INDIAN GARDEN CREEK	37.52558546960	-117.94423098700	None
258	MNO	266	9.1		Intermittent	055	37E	6	2714007		INDIAN GARDEN CREEK	37.54320895460	-117.95713594800	None
259	MNO	266	7.3		Intermittent	055	37E	17	2715005		INDIAN GARDEN CREEK	37.51987697760	-117.94057863300	None
260	MNO	6	R11.1		Intermittent	045	32E	12			CHIDAGO CANYON	37.61990163220	-118.39464726300	None
261	MNO	395	R3.2R		Intermittent	055	31E	16	2612001		CASA DIABLO MOUNTAIN	37.50853026720	-118.58302321100	Pleasant Valley Reservoir
262	MNO	395	R4.5R		Intermittent	055	31E	17	2612005		CASA DIABLO MOUNTAIN	37.51986535770	-118.59882454000	Pleasant Valley Reservoir
263	MNO	395	R4.3R		Intermittent	055	31E	17	2612005		CASA DIABLO MOUNTAIN	37.51890520070	-118.59500612300	Pleasant Valley Reservoir
264	MNO	395	R10.4		Perennial	045	30E	33			TOMS PLACE	37.56278293250	-118.68014657500	Pleasant Valley Reservoir
265	MNO	395	R13.7	Whisky Creek	Perennial	045	29E	25			TOMS PLACE	37.57354178400	-118.73550054400	Lake Crowley
266	MNO	395	R13.2		Intermittent	045	29E	25			TOMS PLACE	37.57479960010	-118.72613910700	Lake Crowley
267	MNO	395	R14.3		Perennial	045	29E	26			TOMS PLACE	37.57398669420	-118.74509668000	Lake Crowley
268	MNO	395	R14.2		Perennial	045	29E	26			TOMS PLACE	37.57369843820	-118.74335088900	Lake Crowley
269	MNO	395	R14.1		Perennial	045	29E	26			TOMS PLACE	37.57351129340	-118.74225707500	Lake Crowley
270	MNO	395	R14.3	Hilton Creek	Perennial	045	29E	26			TOMS PLACE	37.57407113710	-118.74561419100	Lake Crowley
271	MNO	395	R14.3		Perennial	045	29E	26			TOMS PLACE	37.57416919450	-118.74621741800	Lake Crowley
272	MNO	395	R14.6		Perennial	045	29E	26			TOMS PLACE	37.5744360470	-118.75062588900	Lake Crowley
273	MNO	395	R14.5		Perennial	045	29E	26			TOMS PLACE	37.57489210800	-118.74797364800	Lake Crowley
274	MNO	395	R12.5	Crooked Creek	Perennial	045	30E	30			TOMS PLACE	37.57267857690	-118.71373430200	Lake Crowley
275	MNO	395	9.2	Lower Rock Creek	Perennial	045	30E	34			TOMS PLACE	37.55777444940	-118.65921026000	Pleasant Valley Reservoir

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Crossing	COUNTY	RTE	PM	Stream Name	Flow	TOWNSHIP	RANGE	SECTION	COMMENT	APN	USGS 7.5 Quad	Latitude	Longitude	WaterBody
276	MNO	395 R10.5		Lower Rock Creek	Perennial	04S	30E	32			TOMS PLACE	37.56334427430	-118.68118553300	Pleasant Valley Reservoir
277	MNO	395 B.9			Intermittent	04S	30E	34		6210003	TOMS PLACE	37.55786251820	-118.65353296200	Pleasant Valley Reservoir
278	MNO	395 20.2		Convict Creek	Perennial	04S	29E	7			CONVICT LAKE	37.61752967740	-118.82111659600	Lake Crowley
279	MNO	395 R17.9			Perennial	04S	29E	17			CONVICT LAKE	37.60044630050	-118.80076315700	Lake Crowley
280	MNO	395 R17.6			Intermittent	04S	29E	17			CONVICT LAKE	37.59619164260	-118.79654960600	Lake Crowley
281	MNO	395 R16.6		McGee Creek	Perennial	04S	29E	21			CONVICT LAKE	37.58762439600	-118.7834444469000	Lake Crowley
282	MNO	395 R14.7			Perennial	04S	29E	26			CONVICT LAKE	37.57596353980	-118.75321258300	Lake Crowley
283	MNO	395 R17.3			Intermittent	04S	29E	20			CONVICT LAKE	37.59378408100	-118.79412403700	Lake Crowley
284	MNO	395 R14.9			Perennial	04S	29E	27			CONVICT LAKE	37.57673030540	-118.75648190900	Lake Crowley
285	MNO	395 R15			Perennial	04S	29E	27			CONVICT LAKE	37.57691822760	-118.75703187100	Lake Crowley
286	MNO	395 R15.1			Intermittent	04S	29E	27			CONVICT LAKE	37.5718850440	-118.75949246200	Lake Crowley
287	MNO	395 R15			Perennial	04S	29E	27			CONVICT LAKE	37.57680317350	-118.75847246400	Lake Crowley
288	MNO	395 R15.1			Intermittent	04S	29E	27			CONVICT LAKE	37.57745187960	-118.76019566000	Lake Crowley
289	MNO	395 R14.8			Perennial	04S	29E	27			CONVICT LAKE	37.57621386970	-118.75445191600	Lake Crowley
290	MNO	395 R18.6			Intermittent	04S	29E	17		6008006	CONVICT LAKE	37.60853755110	-118.80720924800	Lake Crowley
291	MNO	266 0.8			Intermittent	05S	38E	31		2719001	SYLVANIA CANYON	37.47434303850	-117.85048126200	None
292	INY	168 53.3			Intermittent	06S	37E	9			CHOCOLATE MTN	37.44851440160	-117.92852234600	None
293	INY	168 52.9			Intermittent	06S	37E	8			CHOCOLATE MTN	37.44854618410	-117.93537534800	None
294	INY	168 52			Intermittent	06S	37E	8			CHOCOLATE MTN	37.44117114160	-117.94465559900	None
295	INY	168 51.3			Intermittent	06S	37E	17			CHOCOLATE MTN	37.43333115670	-117.93848287200	None
296	INY	168 46.2		Wyman Creek	Canal/Ditch	06S	36E	36			CHOCOLATE MTN	37.39056765070	-117.98204787200	None
297	INY	168 45.1			Intermittent	06S	36E	35		01607006	CHOCOLATE MTN	37.37825483950	-117.99371644600	None
298	INY	168 47.6			Intermittent	06S	36E	24		01607006	CHOCOLATE MTN	37.40980684500	-117.97200909300	None
299	INY	168 47.7			Intermittent	06S	36E	24		01607006	CHOCOLATE MTN	37.41119277010	-117.97129475700	None
300	INY	168 48.3			Intermittent	06S	37E	19		01610002	CHOCOLATE MTN	37.41599887580	-117.96657550300	None
301	INY	168 54.5			Intermittent	06S	37E	4		01608006	CHOCOLATE MTN	37.46259504780	-117.91722531300	None
302	INY	168 51.5			Intermittent	06S	37E	17		01608006	CHOCOLATE MTN	37.43530084150	-117.94021230100	None
303	INY	168 49.5			Intermittent	06S	37E	18		01608006	CHOCOLATE MTN	37.42738092310	-117.95465662900	None
304	MNO	168 0			Intermittent	05S	37E	33		2718015	CHOCOLATE MTN	37.46594174420	-117.91675740600	None
305	MNO	266 3.3			Intermittent	05S	37E	26		2717003	CHOCOLATE MTN	37.48663364760	-117.89412622600	None
306	MNO	266 4.9			Intermittent	05S	37E	28		2718002	CHOCOLATE MTN	37.48815725140	-117.92294672500	None
307	INY	168 53.4			Intermittent			0			CHOCOLATE MTN	37.449989393020	-117.92359710500	None
308	INY	6 7.4		North McNally Canal	Canal/Ditch	06S	33E	3			LAWS	37.449335445090	-118.34956850200	Tinemaha Reservoir
309	INY	6 6.5		South McNally Canal	Canal/Ditch	06S	33E	10			LAWS	37.43546058500	-118.34962581500	Tinemaha Reservoir
310	INY	6 2.8			Intermittent	06S	33E	29			LAWS	37.39769352000	-118.37292386300	None
311	INY	6 0.5		North Fork Bishop Creek	Perennial	06S	33E	31			FISH SLOUGH	37.38049870840	-118.39536312700	Tinemaha Reservoir
312	INY	6 1			Intermittent	06S	33E	31			FISH SLOUGH	37.38810477430	-118.39539262600	Tinemaha Reservoir
313	INY	395 121.8		McGee Creek	Perennial	06S	32E	32			FISH SLOUGH	37.38632245640	-118.49186834500	Tinemaha Reservoir
314	INY	6 R1.4			Intermittent	06S	33E	30			FISH SLOUGH	37.39386789770	-118.394663768500	None
315	INY	395 120.6			Intermittent	06S	32E	33			FISH SLOUGH	37.37930825860	-118.47328543000	Tinemaha Reservoir
316	INY	395 116.8			Intermittent	06S	33E	6			FISH SLOUGH	37.373586612050	-118.40496394500	Tinemaha Reservoir
317	INY	395 117.6		North Fork Bishop Creek	Perennial	07S	32E	1			FISH SLOUGH	37.37582053430	-118.41922899500	Tinemaha Reservoir
318	INY	395 119.6			Canal/Ditch	07S	32E	3			FISH SLOUGH	37.37587099720	-118.45602049300	Tinemaha Reservoir
319	INY	395 118.8			Canal/Ditch	07S	31E	2			FISH SLOUGH	37.37593511120	-118.44072934100	Tinemaha Reservoir
320	MNO	395 R2.1L			Intermittent	05S	31E	21			ROVANA	37.49363234710	-118.58279419000	Tinemaha Reservoir
321	INY	395 R129.3			Intermittent	06S	31E	4			ROVANA	37.46092837100	-118.57783353900	Pleasant Valley Reservoir

Crossing	COUNTY	RTE	PM	Stream Name	Flow	TOWNSHIP	RANGE	SECTION	COMMENT	APN	USGS 7.5 Quad	Latitude	Longitude	WaterBody
322	INY	395	R128.5		Intermittent	06S	31E	4			ROVANA	37.45082221410	-118.57326244300	Pleasant Valley Reservoir
323	INY	395	R127.7	Pine Creek	Perennial	06S	31E	9			ROVANA	37.43939749970	-118.57026033900	Pleasant Valley Reservoir
324	INY	395	R127.8	Lower Rock Creek	Perennial	06S	31E	9			ROVANA	37.44004837260	-118.57063391000	Pleasant Valley Reservoir
325	INY	395	R124		Intermittent	06S	31E	25			ROVANA	37.399990014910	-118.52734528600	Tinemaha Reservoir
326	INY	395	R124.9	Horton Creek	Perennial	06S	31E	23			ROVANA	37.405533313580	-118.54303394800	Tinemaha Reservoir
327	INY	168	40.4	Birch Creek	Intermittent	07S	36E	20			DEEP SPRINGS LAKE	37.32753968940	-118.04591322800	None
328	INY	168	40.6		Intermittent	07S	36E	20			DEEP SPRINGS LAKE	37.32814472160	-118.043337855800	None
329	INY	168	40.1		Intermittent	07S	36E	20			DEEP SPRINGS LAKE	37.32628291900	-118.05120751500	None
330	INY	168	40		Intermittent	07S	36E	20			DEEP SPRINGS LAKE	37.32597632710	-118.05249154300	None
331	INY	168	39.1		Intermittent	07S	36E	19			DEEP SPRINGS LAKE	37.32250084110	-118.06807422400	None
332	INY	168	39.2		Intermittent	07S	36E	19			DEEP SPRINGS LAKE	37.32273078840	-118.06668615300	None
333	INY	168	38.8		Intermittent	07S	36E	19			DEEP SPRINGS LAKE	37.32140137320	-118.07451037100	None
334	INY	168	37.1		Intermittent	07S	35E	26			DEEP SPRINGS LAKE	37.31492117380	-118.10215364100	None
335	INY	168	35.7		Intermittent	07S	35E	27			DEEP SPRINGS LAKE	37.31186554090	-118.12537855800	None
336	INY	168	37.5		Intermittent	07S	35E	26	01616005		DEEP SPRINGS LAKE	37.31807369740	-118.09696034400	None
337	INY	168	36.5		Intermittent	07S	35E	26	01616005		DEEP SPRINGS LAKE	37.31290855320	-118.11221654000	None
338	INY	168	34.1		Intermittent	07S	35E	21			WESTGARD PASS	37.31872317900	-118.14690499200	None
339	INY	168	32.7		Ephemeral	07S	35E	32			WESTGARD PASS	37.30263627800	-118.15527015900	None
340	INY	168	34.1		Intermittent	07S	35E	28			WESTGARD PASS	37.31857114740	-118.14795011400	None
341	INY	168	34.5		Ephemeral	07S	35E	28			WESTGARD PASS	37.31589911080	-118.14095129200	None
342	INY	168	34.4		Ephemeral	07S	35E	28			WESTGARD PASS	37.31775974140	-118.14295251300	None
343	INY	168	34.3		Ephemeral	07S	35E	28			WESTGARD PASS	37.31804898180	-118.14382787200	None
344	INY	168	35		Ephemeral	07S	35E	28			WESTGARD PASS	37.31431718780	-118.13544429700	None
345	INY	168	35.3		Intermittent	07S	35E	28			WESTGARD PASS	37.31116264760	-118.13261573300	None
346	INY	168	35.3		Intermittent	07S	35E	28			WESTGARD PASS	37.31110592230	-118.13313364900	None
347	INY	168	33		Ephemeral	07S	35E	29			WESTGARD PASS	37.30618222250	-118.15595428700	None
348	INY	168	33.5		Intermittent	07S	35E	29			WESTGARD PASS	37.31384331650	-118.15557109100	None
349	INY	168	31.6		Intermittent	08S	35E	5			WESTGARD PASS	37.28648316170	-118.15172784600	None
350	INY	168	29.8		Ephemeral	08S	35E	8			WESTGARD PASS	37.26323829280	-118.15689283900	None
351	INY	168	29.6		Ephemeral	08S	35E	8			WESTGARD PASS	37.26139121860	-118.15281763000	None
352	INY	168	29.8		Ephemeral	08S	35E	8			WESTGARD PASS	37.26265221050	-118.15563418100	None
353	INY	168	29.7		Ephemeral	08S	35E	8			WESTGARD PASS	37.26224298430	-118.15486089400	None
354	INY	168	28.3		Intermittent	08S	35E	17			WESTGARD PASS	37.25180571230	-118.16436120300	None
355	INY	168	28.9		Ephemeral	08S	35E	17			WESTGARD PASS	37.25675949820	-118.15709445100	None
356	INY	168	28.6		Ephemeral	08S	35E	17			WESTGARD PASS	37.25441026080	-118.16026109000	None
357	INY	168	34.6		Intermittent	07S	35E	28	01616004		WESTGARD PASS	37.31489071030	-118.13994793500	None
358	INY	168	32.9		Intermittent	07S	35E	29	01616003		WESTGARD PASS	37.30453716810	-118.15613412000	None
359	INY	168	33.3		Intermittent	07S	35E	29	01616003		WESTGARD PASS	37.30995314090	-118.15631895100	None
360	INY	168	33.3		Ephemeral	07S	35E	29	01616003		WESTGARD PASS	37.31078550990	-118.15601018900	None
361	INY	168	30		Ephemeral	08S	35E	8	01625007		WESTGARD PASS	37.26538980840	-118.1568893700	None
362	INY	168	28.9		Ephemeral	08S	35E	17			WESTGARD PASS	37.25652839010	-118.15742614300	None
363	INY	168	33.8		Intermittent	07S	35E	29	01616003		WESTGARD PASS	37.31736838740	-118.15252684400	None
364	INY	168	33.7		Intermittent	07S	35E	29	01616003		WESTGARD PASS	37.31610685220	-118.15407039900	None
365	INY	168	35.5		Intermittent	07S	35E	27	01616004		WESTGARD PASS	37.31182279530	-118.12903668400	None
366	INY	395	110.7		Intermittent	07S	33E	32			POLETA CANYON	37.29595144380	-118.37589915400	Tinemaha Reservoir
367	INY	395	109.3		Canal/Ditch	08S	33E	5			POLETA CANYON	37.27617971410	-118.37031362500	Tinemaha Reservoir

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Crossing	COUNTY	RTE	PM	Stream Name	Flow	TOWNSHIP	RANGE	SECTION	COMMENT	APN	USGS 7.5 Quad	Latitude	Longitude	WaterBody
368	INY	395	110.3		Intermittent	075	33E	19			POLETA CANYON	37.28853164420	-118.37404231100	Tinemaha Reservoir
369	INY	395	112.8		Intermittent	075	33E	19			BISHOP	37.32483545040	-118.39092536600	Tinemaha Reservoir
370	INY	395	112.8		Intermittent	075	33E	19			BISHOP	37.32445633450	-118.39072931200	Tinemaha Reservoir
371	INY	395	115.8	South Fork Bishop Creek	Perennial	075	33E	6			BISHOP	37.36740693180	-118.39531984300	Tinemaha Reservoir
372	INY	168	15.8	South Fork Bishop Creek	Perennial	075	32E	11			BISHOP	37.36133816810	-118.44028217000	Tinemaha Reservoir
373	INY	168	15.9		Canal/Ditch	075	32E	11			BISHOP	37.36133624680	-118.43987689400	Tinemaha Reservoir
374	INY	168	15.1		Perennial	075	32E	10			BISHOP	37.36090245400	-118.45404038800	Tinemaha Reservoir
375	INY	168	14.7		Perennial	075	32E	10			BISHOP	37.35816365480	-118.45968556700	Tinemaha Reservoir
376	INY	168	15		Perennial	075	32E	10			BISHOP	37.36057164060	-118.45521667600	Tinemaha Reservoir
377	INY	168	14.9		Canal/Ditch	075	32E	10			BISHOP	37.36015962830	-118.45639052000	Tinemaha Reservoir
378	INY	395	113.6		Canal/Ditch	075	33E	18			BISHOP	37.33605441210	-118.39498143000	Tinemaha Reservoir
379	INY	168	113.1		Canal/Ditch	075	32E	17			BISHOP	37.34247162690	-118.47920376800	Tinemaha Reservoir
380	INY	168	16.6		Intermittent	075	31E	35			TUNGSTEN HILLS	37.29451976780	-118.54965430200	Tinemaha Reservoir
381	INY	168	110.3	Birch Creek	Intermittent	075	31E	24			TUNGSTEN HILLS	37.32812602060	-118.52401111000	Tinemaha Reservoir
382	INY	168	16.7		Intermittent	075	31E	24			TUNGSTEN HILLS	37.32629133630	-118.51451015800	Tinemaha Reservoir
383	INY	168	14.9		Intermittent	085	31E	4			TUNGSTEN HILLS	37.27744508000	-118.51783030700	Tinemaha Reservoir
384	INY	168	14.3		Ephemeral	085	31E	9			TUNGSTEN HILLS	37.27031973800	-118.57728434200	Tinemaha Reservoir
385	INY	168	14.2		Ephemeral	085	31E	9			TUNGSTEN HILLS	37.26941461500	-118.57776455000	Tinemaha Reservoir
386	INY	168	14.4		Ephemeral	085	31E	9			TUNGSTEN HILLS	37.27125911360	-118.57676770500	Tinemaha Reservoir
387	INY	168	13.6		Intermittent	085	31E	9			TUNGSTEN HILLS	37.26130655720	-118.58023822800	Tinemaha Reservoir
388	INY	168	25.8		Intermittent	085	34E	24			UHLMEYER SPRING	37.23780528930	-118.20139615800	None
389	INY	168	24.8		Intermittent	085	34E	26		01624003	UHLMEYER SPRING	37.22764294680	-118.21210223500	None
390	INY	168	24.6		Intermittent	085	34E	26		01624003	UHLMEYER SPRING	37.22645422880	-118.21550304640	None
391	INY	168	25		Ephemeral	085	34E	26		01624003	UHLMEYER SPRING	37.22949399700	-118.20951161400	None
392	INY	168	23		Intermittent	085	34E	34		01624003	UHLMEYER SPRING	37.21247825690	-118.23879322700	None
393	INY	168	26		Ephemeral	085	34E	24		01624002	UHLMEYER SPRING	37.23975036050	-118.19819185400	None
394	INY	168	25.3		Intermittent	085	34E	23		01624002	UHLMEYER SPRING	37.23235915120	-118.20571577700	None
395	INY	168	26.9		Ephemeral	085	35E	18		01626002	UHLMEYER SPRING	37.24590842500	-118.18539621100	None
396	INY	168	27.4		Intermittent	085	35E	18		01625007	UHLMEYER SPRING	37.24774259620	-118.17726200600	None
397	INY	168	27.5		Intermittent	085	35E	18		01625007	UHLMEYER SPRING	37.24883592550	-118.17571892600	None
398	INY	395	105.8		Canal/Ditch	085	33E	27			BIG PINE	37.22991874770	-118.34592256600	Tinemaha Reservoir
399	INY	395	104.8		Intermittent	085	33E	27			BIG PINE	37.21866195180	-118.33477463300	Warren Lake
400	INY	395	103		Intermittent	095	33E	1			BIG PINE	37.19819066140	-118.31444107600	Klondike Lake
401	INY	168	19.3		Canal/Ditch	095	34E	8			BIG PINE	37.17370296830	-118.2727253400	Tinemaha Reservoir
402	INY	168	20.5		Canal/Ditch	095	34E	9			BIG PINE	37.18396854120	-118.25664460000	Tinemaha Reservoir
403	INY	168	18.5		Canal/Ditch	095	34E	17			BIG PINE	37.17343097530	-118.28661559800	Tinemaha Reservoir
404	INY	395	99.2		Canal/Ditch	095	34E	20			BIG PINE	37.15120858530	-118.28503338100	Tinemaha Reservoir
405	INY	395	100.2	Big Pine Creek	Perennial	085	34E	18			BIG PINE	37.16441961030	-118.28957242000	Tinemaha Reservoir
406	INY	395	107.3		Perennial	085	33E	16			BIG PINE	37.24946684650	-118.35639754400	Tinemaha Reservoir
407	INY	168	12.3		Perennial	085	31E	17			BIG PINE	37.24707793380	-118.59057103700	Tinemaha Reservoir
408	INY	168	12	Middle Fork Bishop Creek	Perennial	085	31E	20			MOUNT THOMPSON	37.24425322350	-118.59465038300	Tinemaha Reservoir
409	INY	168	11.5		Intermittent	085	31E	20			MOUNT THOMPSON	37.23772595900	-118.59719052700	Tinemaha Reservoir
410	INY	395	93.7		Intermittent	10S	34E	15			TINEMAHA RESERVOIR	37.07990539050	-118.24446576500	Tinemaha Reservoir
411	INY	395	93.7	Tinemaha Creek	Perennial	10S	34E	22			TINEMAHA RESERVOIR	37.06894509560	-118.24117426500	Tinemaha Reservoir
412	INY	395	94.8		Perennial	10S	34E	10		01819006	TINEMAHA RESERVOIR	37.09456037900	-118.24961182500	Tinemaha Reservoir
413	INY	395	183.9		Canal/Ditch	11S	34E	34			BLACKROCK	36.94576770810	-118.24023343900	LA Aqueduct

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Crossing	COUNTY	RTE	PM	Stream Name	Flow	TOWNSHIP	RANGE	SECTION	COMMENT	APN	USGS 7.5 Quad	Latitude	Longitude	WaterBody
414	INY	395 R87.5		Taboose Creek	Perennial	115	34E	14			BLACKROCK	36.99796049630	-118.23304944200	Owens Lake
415	INY	395 R85.9		Goodale Creek	Perennial	115	34E	22			BLACKROCK	36.97476492710	-118.23677254400	LA Aquaduct
416	INY	395 76.1			Canal/Ditch	135	34E	1			INDEPENDENCE	36.83465663760	-118.22740143200	None
417	INY	395 75.5			Intermittent	135	34E	1			INDEPENDENCE	36.82677502510	-118.22050237900	None
418	INY	395 75.9		Oak Creek	Canal/Ditch	135	34E	1			INDEPENDENCE	36.83245718980	-118.22578915200	None
419	INY	395 72.9			Intermittent	135	35E	20			INDEPENDENCE	36.79591770420	-118.19544483000	None
420	INY	395 71.4			Intermittent	135	35E	28		02217010	INDEPENDENCE	36.77764498220	-118.18193721800	LA Aquaduct
421	INY	395 71.3			Intermittent	135	35E	28		02217010	INDEPENDENCE	36.77557126260	-118.18040916800	LA Aquaduct
422	INY	395 70.3			Canal/Ditch	135	35E	33		02217012	INDEPENDENCE	36.76381103860	-118.17174303900	None
423	INY	395 70.2			Intermittent	135	35E	29		02217012	INDEPENDENCE	36.78120225610	-118.18456376800	None
424	INY	395 71.7			Intermittent	135	35E	29		02217008	INDEPENDENCE	36.78120225610	-118.18456376800	None
425	INY	395 72.7		Independence Creek	Intermittent	135	35E	17		02214026	INDEPENDENCE	36.79363877640	-118.19374299600	None
426	INY	395 73.7			Perennial	135	35E	20		00201211	INDEPENDENCE	36.80643251620	-118.20214584400	LA Aquaduct
427	INY	395 74.6			Intermittent	135	35E	7		02213025	INDEPENDENCE	36.81765333860	-118.21047089000	None
428	INY	395 77.3			Intermittent	135	34E	1		02207024	INDEPENDENCE	36.85152087970	-118.23216199800	None
429	INY	395 77.4			Intermittent	135	34E	1		02207011	INDEPENDENCE	36.85331819270	-118.23258625500	None
430	INY	395 78.2			Intermittent	125	34E	35		02118008	INDEPENDENCE	36.86409617310	-118.23528237300	None
431	INY	190 94			Intermittent			0	NOT SECTIONED		STOVEPIPE WELLS	36.63461011220	-117.02487683100	Cottonball Basin
432	INY	190 94.8			Intermittent	155	46E	30			STOVEPIPE WELLS	36.62836542890	-117.01510840200	Cottonball Basin
433	INY	190 92.1		Salt Creek	Intermittent	155	45E	26		02716003	STOVEPIPE WELLS	36.62836542890	-117.01510840200	Cottonball Basin
434	INY	190 94.3			Intermittent	155	46E	19			STOVEPIPE WELLS	36.63227105850	-117.02185239900	Cottonball Basin
435	INY	190 93.5			Intermittent	155	45E	24			STOVEPIPE WELLS	36.63995271300	-117.03151405800	Cottonball Basin
436	INY	395 R62.8R			Intermittent	145	36E	31			UNION WASH	36.67278549760	-118.09652338200	Owens Lake
437	INY	395 R61.8R			Perennial	155	36E	5			UNION WASH	36.65983288390	-118.09135266600	Owens Lake
438	INY	395 R61.5L			Intermittent	155	36E	6			UNION WASH	36.65407491780	-118.09406021900	Owens Lake
439	INY	395 R62.1R			Intermittent	155	36E	6			UNION WASH	36.66335148540	-118.09316457700	Owens Lake
440	INY	395 R62.9L			Intermittent	145	36E	31			UNION WASH	36.67383760610	-118.09693112900	Owens Lake
441	INY	395 R63.2R			Intermittent	145	36E	31		02313005	UNION WASH	36.67774520510	-118.10058712300	Owens Lake
442	INY	395 R65R			Perennial	145	35E	24		02308011	UNION WASH	36.69837227070	-118.11951651500	None
443	INY	395 R65R			Perennial	145	35E	24		02308011	UNION WASH	36.69834484700	-118.11949076600	None
444	INY	395 65.5		George Creek	Intermittent	145	35E	24		02308009	UNION WASH	36.70405019370	-118.12580678000	None
445	INY	395 67.1		Bairs Creek	Intermittent	145	35E	14			MANZANAR	36.72330354940	-118.14190948800	LA Aquaduct
446	INY	395 68.7		Shepherd Creek	Perennial	145	35E	3		02304017	MANZANAR	36.74366866040	-118.15689882900	LA Aquaduct
447	INY	190 97			Intermittent	155	46E	33			BEATTY JUNCTION	36.60779243360	-116.98454883900	Cottonball Basin
448	INY	190 96.3			Intermittent	155	46E	32			BEATTY JUNCTION	36.61496559120	-116.99594637900	Cottonball Basin
449	INY	190 99.9			Intermittent	165	46E	2			BEATTY JUNCTION	36.58748427300	-116.94190548800	Cottonball Basin
450	INY	190 99.7			Intermittent	165	46E	2			BEATTY JUNCTION	36.58814737710	-116.94388006400	Cottonball Basin
451	INY	190 99.1			Intermittent	165	46E	3			BEATTY JUNCTION	36.59245967160	-116.95466457500	Cottonball Basin
452	INY	190 103.9			Intermittent	28N	01E	17			BEATTY JUNCTION	36.54915928210	-116.89129642500	Cottonball Basin
453	INY	190 102.6			Intermittent	28N	01E	7			BEATTY JUNCTION	36.56231531800	-116.90568522200	Cottonball Basin
454	INY	190 105.9			Intermittent	28N	01E	28			BEATTY JUNCTION	36.52242424280	-116.88233860500	Cottonball Basin
455	INY	190 97.7			Intermittent	165	46E	4		02747004	BEATTY JUNCTION	36.60098815850	-116.97636853700	Cottonball Basin
456	INY	190 100.3			Intermittent	165	46E	11			BEATTY JUNCTION	36.58394859270	-116.93581284600	Cottonball Basin
457	INY	190 100.7			Intermittent	165	46E	12			BEATTY JUNCTION	36.57967381160	-116.93107421700	Cottonball Basin
458	INY	190 101.1			Intermittent	165	46E	12			BEATTY JUNCTION	36.57571424820	-116.92647238400	Cottonball Basin
459	INY	190 106.7			Intermittent	28N	01E	33			BEATTY JUNCTION	36.51155201560	-116.88102345600	Cottonball Basin

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Crossing	COUNTY	RTE	PM	Stream Name	Flow	TOWNSHIP	RANGE	SECTION	COMMENT	APN	USGS 7.5 Quad	Latitude	Longitude	WaterBody
460	INY	190	107		Intermittent	28N	01E	33			BEATTY JUNCTION	36.50723098100	-116.87863865400	Cottonball Basin
461	INY	190	107.1		Intermittent	28N	01E	33			BEATTY JUNCTION	36.50583707970	-116.87781767200	Cottonball Basin
462	INY	190	105		Intermittent	28N	01E	21			BEATTY JUNCTION	36.53576877950	-116.88378008800	Cottonball Basin
463	INY	190	104.7		Intermittent	28N	01E	21			BEATTY JUNCTION	36.53882227880	-116.88456079800	Cottonball Basin
464	INY	190	104.4		Intermittent	28N	01E	20			BEATTY JUNCTION	36.54293842030	-116.88598066400	Cottonball Basin
465	INY	190	88.9		Intermittent	16S	45E	4			GROTTO CANYON	36.60129216430	-117.09549980900	Cottonball Basin
466	INY	190	89.8		Intermittent	15S	45E	33			GROTTO CANYON	36.60931205960	-117.08460528600	Cottonball Basin
467	INY	190	89.4		Intermittent	15S	45E	33			GROTTO CANYON	36.60572839460	-117.089903691200	Cottonball Basin
468	INY	190	87.3		Intermittent	15S	45E	31			GROTTO CANYON	36.60395285120	-117.12422662700	None
469	INY	190	82		Intermittent	16S	44E	16			STOVEPIPE WELLS VILLAGE	36.5677232690	-117.19477675800	Mesquite Flat
470	INY	190	83.9		Intermittent	16S	44E	11			STOVEPIPE WELLS VILLAGE	36.586648012210	-117.17112499900	Mesquite Flat
471	INY	190	83		Intermittent	16S	44E	10			STOVEPIPE WELLS VILLAGE	36.57768882390	-117.18218380400	Mesquite Flat
472	INY	190	79.3	Emigrant Wash	Intermittent	16S	44E	29		027440DVN	STOVEPIPE WELLS VILLAGE	36.53303420760	-117.21714706400	Mesquite Flat
473	INY	190	79.9		Intermittent	16S	44E	29		027440DVN	STOVEPIPE WELLS VILLAGE	36.54125224890	-117.21233338300	Mesquite Flat
474	INY	190	81.2		Intermittent	16S	44E	21		027440DVN	STOVEPIPE WELLS VILLAGE	36.55207585790	-117.20610079300	Mesquite Flat
475	INY	190	80.7		Intermittent	16S	44E	21		027440DVN	STOVEPIPE WELLS VILLAGE	36.58943430020	-117.16740239300	Mesquite Flat
476	INY	190	84.2		Intermittent	16S	44E	2			STOVEPIPE WELLS VILLAGE	36.58943430020	-117.16740239300	Mesquite Flat
477	INY	190	84.6		Intermittent	16S	44E	2			STOVEPIPE WELLS VILLAGE	36.59343019580	-117.162344454200	Mesquite Flat
478	INY	395	R58.3		Canal/Ditch	15S	36E	21			LONE PINE	36.61365232100	-118.06623597700	None
479	INY	136	2.7	Owens River	Perennial	16S	36E	1			LONE PINE	36.57448192380	-118.01071081300	Owens Lake
480	INY	395	55.1		Intermittent	16S	36E	3			LONE PINE	36.56869321930	-118.05384226200	Diaz Lake
481	INY	395	55.1		Intermittent	16S	36E	3			LONE PINE	36.56940318320	-118.05416423700	Diaz Lake
482	INY	395	52.4		Intermittent	16S	36E	22			LONE PINE	36.53027462750	-118.04504635300	None
483	INY	395	52.2		Intermittent	16S	36E	22			LONE PINE	36.52755942570	-118.04448399800	None
484	INY	395	53.2	Lubken Creek	Intermittent	16S	36E	15			LONE PINE	36.54237747440	-118.04699801800	None
485	INY	127	48	Amargosa River	Intermittent	26N	05E	15		04303002	FRANKLIN WELL	36.38717770820	-116.42246183300	Amargosa River
486	INY	190	107.7	Cow Creek	Intermittent	27N	01E	4			FURNACE CREEK	36.49732345790	-116.87478632700	Cottonball Basin
487	INY	190	112.6	Furnace Creek Wash	Intermittent	27N	01E	23			FURNACE CREEK	36.44738531490	-116.84209066600	Middle Basin
488	INY	190	111.7	Furnace Creek Wash	Intermittent	27N	01E	22			FURNACE CREEK	36.44828956220	-116.85372313300	Middle Basin
489	INY	190	114.4	Furnace Creek Wash	Intermittent	27N	01E	25		04129008	FURNACE CREEK	36.43269898420	-116.81667909700	Middle Basin
490	INY	190	113.4		Intermittent	27N	01E	26		04129008	FURNACE CREEK	36.44025915090	-116.83089141200	Middle Basin
491	INY	190	108.4		Intermittent	27N	01E	4		041250DVN	FURNACE CREEK	36.48903488280	-116.86894665400	Cottonball Basin
492	INY	190	109.3		Intermittent	27N	01E	9		041250DVN	FURNACE CREEK	36.47681606260	-116.86815042600	Cottonball Basin
493	INY	190	108.6		Intermittent	27N	01E	9		041250DVN	FURNACE CREEK	36.48593115240	-116.86907305200	Cottonball Basin
494	INY	190	108.7		Intermittent	27N	01E	9		041250DVN	FURNACE CREEK	36.48518131570	-116.86991064900	Cottonball Basin
495	INY	190	110.4		Intermittent	27N	01E	15			FURNACE CREEK	36.46271103650	-116.86552196600	Cottonball Basin
496	INY	190	109.6	Furnace Creek Wash	Intermittent	27N	01E	16			FURNACE CREEK	36.47303490720	-116.86741785800	Cottonball Basin
497	INY	190	116	Furnace Creek Wash	Intermittent	26N	02E	6			FURNACE CREEK	36.41218358170	-116.79891602600	Middle Basin
498	INY	190	116.5	Furnace Creek Wash	Intermittent	26N	02E	6			FURNACE CREEK	36.40880351540	-116.79318828600	Middle Basin
499	INY	190	114		Intermittent	27N	01E	25			FURNACE CREEK	36.43668813860	-116.82176648500	Middle Basin
500	INY	190	113.2		Intermittent	27N	01E	26			FURNACE CREEK	36.44108281720	-116.83334975000	Middle Basin
501	INY	190	115.3	Furnace Creek Wash	Intermittent	27N	02E	31			FURNACE CREEK	36.42079398920	-116.80859411300	Middle Basin
502	INY	190	115.4		Intermittent	27N	02E	31			FURNACE CREEK	36.42035251580	-116.80809998100	Middle Basin
503	INY	190	118.3		Intermittent	26N	02E	9			FURNACE CREEK	36.39623112530	-116.76686093600	Middle Basin
504	INY	190	73		Intermittent	17S	44E	19		032060DVN	EMIGRANT CANYON	36.44655339160	-117.24372196500	Mesquite Flat
505	INY	190	67.677		Intermittent	18S	43E	11		032160BLM	PANAMINT BUTTE	36.38353689450	-117.28306821500	Panamint Valley Playa

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Crossing	COUNTY	RTE	PM	Stream Name	Flow	TOWNSHIP	RANGE	SECTION	COMMENT	APN	USGS 7.5 Quad	Latitude	Longitude	WaterBody
506	INY	190 R67.9			Intermittent	18S	43E	11		0321608BLM	PANAMINT BUTTE	36.38222391270	-117.28354738900	Panamint Valley Playa
507	INY	190 69.2			Intermittent	18S	43E	2		0321608BLM	PANAMINT BUTTE	36.40398916510	-117.27907601800	Mesquite Flat
508	INY	190 70.9			Intermittent	17S	43E	25		0320408BLM	PANAMINT BUTTE	36.42410390310	-117.26462615600	Mesquite Flat
509	INY	190 70.6			Intermittent	17S	43E	36		0320408BLM	PANAMINT BUTTE	36.41985457550	-117.26710458200	Mesquite Flat
510	INY	190 69.4			Intermittent	17S	43E	36		0320408BLM	PANAMINT BUTTE	36.40720630850	-117.27719571500	Mesquite Flat
511	INY	190 69.5			Intermittent	17S	43E	36		0320408BLM	PANAMINT BUTTE	36.40857061580	-117.27624237900	Mesquite Flat
512	INY	190 68.3			Intermittent	18S	43E	2			PANAMINT BUTTE	36.39272324510	-117.28138963200	Panamint Valley Playa
513	INY	190 71.2			Intermittent	17S	43E	25			PANAMINT BUTTE	36.42758450510	-117.26195141100	Mesquite Flat
514	INY	190 R67.6			Intermittent	18S	43E	11			PANAMINT BUTTE	36.37794274070	-117.28490287700	Panamint Valley Playa
515	INY	190 69.9			Intermittent	17S	43E	36			PANAMINT BUTTE	36.41390668030	-117.27441744500	Mesquite Flat
516	INY	190 69.6			Intermittent	17S	43E	36			PANAMINT BUTTE	36.40911329430	-117.27613696700	Mesquite Flat
517	INY	190 28.4			Intermittent	18S	38E	12			KEELER	36.37730008630	-117.80253479400	Owens Lake
518	INY	190 28.6			Intermittent	18S	38E	12			KEELER	36.37574247280	-117.80137001600	Owens Lake
519	INY	136 17.6			Intermittent	17S	38E	26		0311008BLM	KEELER	36.43112844830	-117.82514947800	Owens Lake
520	INY	190 20.8			Intermittent	18S	38E	9		03118028	KEELER	36.38903625580	-117.86891806900	Owens Lake
521	INY	190 21.4			Intermittent	18S	38E	4		03118028	KEELER	36.39622903930	-117.86134219200	Owens Lake
522	INY	190 28.2			Intermittent	18S	38E	12		03118029	KEELER	36.37992424850	-117.80359069700	Owens Lake
523	INY	190 27.4			Intermittent	18S	38E	1		03118029	KEELER	36.39141380150	-117.80698765600	Owens Lake
524	INY	190 26.8			Intermittent	18S	38E	1		03118029	KEELER	36.39965791910	-117.80875035100	Owens Lake
525	INY	190 22.5			Intermittent	17S	38E	34		03101022	KEELER	36.40803034390	-117.84842038500	Owens Lake
526	INY	190 26.1			Intermittent	17S	38E	36		03110001	KEELER	36.41076416340	-117.81173711900	Owens Lake
527	INY	190 26.3			Intermittent	17S	38E	36		03110001	KEELER	36.40680629520	-117.81063657800	Owens Lake
528	INY	190 23.5			Intermittent	17S	38E	35		0311008BLM	KEELER	36.41863712400	-117.83684000900	Owens Lake
529	INY	190 19.9			Intermittent						OWENS LAKE	36.37952655770	-117.87932252300	Owens Lake
530	INY	395 49.3		Carroll Creek	Intermittent						BARTLETT	36.48774222340	-118.03453066000	Owens Lake
531	INY	395 46.4			Intermittent						BARTLETT	36.44537867680	-118.03491733000	Owens Lake
532	INY	395 46.1			Intermittent						OWENS LAKE	36.44234884570	-118.03499572400	Owens Lake
533	INY	395 47.7			Intermittent						BARTLETT	36.46465526220	-118.03637500600	Owens Lake
534	INY	395 48			Intermittent						BARTLETT	36.46850802950	-118.03603195000	Owens Lake
535	INY	395 45.1			Intermittent	17S	36E	25		02912040	BARTLETT	36.42689315710	-118.03058950100	Owens Lake
536	INY	395 44.2			Intermittent						BARTLETT	36.49622963260	-118.03334310750	Owens Lake
537	INY	395 44.2			Intermittent	17S	36E	36		02618008	BARTLETT	36.414140937420	-118.02859541600	Owens Lake
538	INY	395 44		Cottonwood Creek	Intermittent	17S	36E	36			BARTLETT	36.41153869150	-118.028144439600	Owens Lake
539	INY	395 43.8			Intermittent	17S	36E	36			BARTLETT	36.40937275290	-118.02770612400	Owens Lake
540	INY	395 42.1			Intermittent	18S	36E	12			BARTLETT	36.38379068100	-118.02409302200	Owens Lake
541	INY	395 42		Ash Creek	Intermittent	18S	36E	12			BARTLETT	36.38297333420	-118.02408268000	Owens Lake
542	INY	395 42.9			Intermittent	18S	36E	1			BARTLETT	36.399550174970	-118.02465093000	Owens Lake
543	INY	127 45			Intermittent	26N	05E	34			DEATH VALLEY JUNCTION	36.34414809560	-116.42295033100	Amargosa River
544	INY	127 46.5			Intermittent	26N	05E	27			DEATH VALLEY JUNCTION	36.36563168450	-116.42273099200	Amargosa River
545	INY	127 46.8			Intermittent	26N	05E	27			DEATH VALLEY JUNCTION	36.36988554540	-116.42267325500	Amargosa River
546	INY	127 39			Intermittent	25N	05E	34			DEATH VALLEY JUNCTION	36.26403824970	-116.43364774300	Amargosa River
547	INY	190 128.2			Intermittent	26N	03E	35			EAST OF RYAN	36.34783359320	-116.62395955400	Middle Basin
548	INY	190 135.3			Intermittent	25N	04E	14			EAST OF RYAN	36.30464748410	-116.51116199700	None
549	INY	190 132.9			Intermittent	25N	04E	9			EAST OF RYAN	36.31907570810	-116.54997261600	None
550	INY	190 133.1			Intermittent	25N	04E	9			EAST OF RYAN	36.31751476990	-116.54656028500	None
551	INY	190 135.4			Intermittent	25N	04E	13			EAST OF RYAN	36.30406049050	-116.50849540800	None

Crossing	COUNTY	RTE	PM	Stream Name	Flow	TOWNSHIP	RANGE	SECTION	COMMENT	APN	USGS 7.5 Quad	Latitude	Longitude	WaterBody
552	INY	190	134.3		Intermittent	25N	04E				EAST OF RYAN	36.30880790170	-116.52729333400	None
553	INY	190	130.7		Intermittent	25N	04E	6			EAST OF RYAN	36.33416558180	-116.58330068600	None
554	INY	190	126		Intermittent	26N	03E	28	04211004		RYAN	36.36570668700	-116.65553204500	Middle Basin
555	INY	190	126.7		Intermittent	26N	03E	34	04211004		RYAN	36.35707725850	-116.64711217200	Middle Basin
556	INY	190	121		Intermittent	26N	02E	23			RYAN	36.37160385020	-116.73172052900	Middle Basin
557	INY	190	120.8		Intermittent	26N	02E	23			RYAN	36.37459010170	-116.73379718600	Middle Basin
558	INY	190	121.6	Furnace Creek Wash	Intermittent	26N	02E	23			RYAN	36.36535438500	-116.72420366000	Middle Basin
559	INY	190	127.4		Intermittent	26N	03E	34			RYAN	36.35159871240	-116.63755013700	Middle Basin
560	INY	190	127.7		Intermittent	26N	03E	34			RYAN	36.35037748410	-116.63312224300	Middle Basin
561	INY	190	R66.9		Intermittent	18S	43E	14			NOVA CANYON	36.36835981640	-117.28694280000	Panamint Valley Playa
562	INY	190	R66.5		Intermittent	18S	43E	14			NOVA CANYON	36.36354777960	-117.28692905600	Panamint Valley Playa
563	INY	190	61.2		Intermittent	18S	43E	30			NOVA CANYON	36.34351054140	-117.36570896900	Panamint Valley Playa
564	INY	190	61.3		Intermittent	18S	43E	30			NOVA CANYON	36.34366373210	-117.363334286300	Panamint Valley Playa
565	INY	190	60.9		Intermittent	18S	42E	25			NOVA CANYON	36.34314808510	-117.37113936500	Panamint Valley Playa
566	INY	190	62.2		Intermittent	18S	43E	29			NOVA CANYON	36.34493177050	-117.34757823200	Panamint Valley Playa
567	INY	190	R66.1		Intermittent	18S	43E	23			NOVA CANYON	36.35868323410	-117.28916030200	Panamint Valley Playa
568	INY	190	63.1		Intermittent	18S	43E	20			NOVA CANYON	36.34861779330	-117.33426909700	Panamint Valley Playa
569	INY	190	60.6		Intermittent	18S	42E	25			PANAMINT SPRINGS	36.34273380580	-117.37680035500	Panamint Valley Playa
570	INY	190	58.2		Intermittent	18S	42E	27			PANAMINT SPRINGS	36.33980156570	-117.41892059200	Panamint Valley Playa
571	INY	190	56.9		Intermittent	18S	42E	29			PANAMINT SPRINGS	36.33813623600	-117.44234450900	Panamint Valley Playa
572	INY	190	54.8		Intermittent	18S	41E	25			PANAMINT SPRINGS	36.33591039270	-117.47589841000	Panamint Valley Playa
573	INY	190	54.8	Darwin Wash	Intermittent	18S	41E	25			PANAMINT SPRINGS	36.33587009550	-117.47598047100	Panamint Valley Playa
574	INY	190	56.6		Intermittent	18S	40E	13			DARWIN	36.33780974570	-117.45368977800	Panamint Valley Playa
575	INY	190	45.1		Intermittent	18S	41E	22			DARWIN	36.34945662300	-117.52801567900	Panamint Valley Playa
576	INY	190	50.9		Intermittent	18S	41E	27			DARWIN	36.34410491990	-117.51766086900	Panamint Valley Playa
577	INY	190	51.6		Intermittent	18S	40E	21			DARWIN	36.34967424120	-117.64124353100	None
578	INY	190	40.3		Intermittent	18S	40E	28	0312308BLM		TALC CITY HILLS	36.34646153610	-117.64315516800	None
579	INY	190	39.5		Intermittent	18S	40E	28	0312308BLM		TALC CITY HILLS	36.33903909240	-117.64888167100	None
580	INY	190	39.5		Intermittent	18S	40E	28	0312308BLM		TALC CITY HILLS	36.33903909240	-117.64888167100	None
581	INY	190	40.2		Intermittent	18S	39E	36	0312308BLM		TALC CITY HILLS	36.34777289710	-117.64229892100	None
582	INY	190	36		Intermittent	18S	39E	36	0312108BLM		TALC CITY HILLS	36.32391491450	-117.69341695100	None
583	INY	190	32.7		Intermittent	18S	39E	28	0312108BLM		TALC CITY HILLS	36.33537342160	-117.75068153500	Owens Lake
584	INY	190	36.7		Intermittent	19S	40E	6			TALC CITY HILLS	36.31650577930	-117.68521369300	None
585	INY	190	32.6		Intermittent	18S	39E	28			CENTENNIAL CANYON	36.33564228040	-117.75269940700	Owens Lake
586	INY	190	31.2		Intermittent	18S	39E	20			CENTENNIAL CANYON	36.34779520450	-117.76965542400	Owens Lake
587	INY	190	17.2		Intermittent			0	OWENS LAKE		VERMILLION CANYON	36.35071313070	-117.91082032600	Owens Lake
588	INY	190	17		Intermittent			0	OWENS LAKE		VERMILLION CANYON	36.34864026100	-117.91309006700	Owens Lake
589	INY	190	18.1		Intermittent			0	OWENS LAKE		VERMILLION CANYON	36.35998874120	-117.90066229400	Owens Lake
590	INY	395	38.7	Braley Creek	Perennial	18S	36E	25			OLANCHA	36.33462668740	-118.02115690900	Owens Lake
591	INY	395	37.3		Perennial	19S	36E	1			OLANCHA	36.31597840980	-118.02704771800	Owens Lake
592	INY	395	36.1	Cartago Creek	Intermittent	19S	37E	7			OLANCHA	36.29860449730	-118.02000642100	Owens Lake
593	INY	395	35.9		Intermittent	19S	37E	7			OLANCHA	36.29701011950	-118.01929572500	Owens Lake
594	INY	395	34.8		Intermittent	19S	37E	18			OLANCHA	36.28357327750	-118.00716744800	Owens Lake
595	INY	178	61.3		Intermittent	24N	08E	21			SIXMILE SPRING	36.16401358030	-116.12361569500	Stewart Valley Depression
596	INY	178	59.8		Intermittent	24N	08E	29			STEWART VALLEY	36.15640917720	-116.14919472900	Stewart Valley Depression
597	INY	178	59.2		Intermittent	24N	08E	30			STEWART VALLEY	36.15131799890	-116.15855717700	Stewart Valley Depression

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Crossing	COUNTY	RTE	PM	Stream Name	Flow	TOWNSHIP	RANGE	SECTION	COMMENT	APN	USGS 7.5 Quad	Latitude	Longitude	WaterBody
598	INY	178	58.9		Intermittent	24N	08E	30		04802002	STEWART VALLEY	36.14865689360	-116.16146152800	Stewart Valley Depression
599	INY	178	58.4		Intermittent	24N	08E	31			STEWART VALLEY	36.14193925810	-116.16576027100	Stewart Valley Depression
600	INY	178	58.2		Intermittent	24N	08E	31			STEWART VALLEY	36.13892546600	-116.16769813900	Stewart Valley Depression
601	INY	178	58.7		Intermittent	24N	08E	31			STEWART VALLEY	36.14528645240	-116.16362792100	Stewart Valley Depression
602	INY	178	58		Intermittent	24N	07E	36			STEWART VALLEY	36.13698834940	-116.16892800300	Stewart Valley Depression
603	INY	127	29		Intermittent	23N	06E	3			EAGLE MTN	36.16479630590	-116.32365951600	Amargosa River
604	INY	127	28.1		Intermittent	23N	06E	3		04330003	EAGLE MTN	36.15235310650	-116.31869490900	Amargosa River
605	INY	127	30.4		Intermittent	24N	06E	28			EAGLE MTN	36.18321850210	-116.33495292500	Amargosa River
606	INY	127	30.5		Intermittent	24N	06E	28			EAGLE MTN	36.18380424510	-116.33566168300	Amargosa River
607	INY	127	31.9		Intermittent	24N	06E	29			EAGLE MTN	36.18978865980	-116.35742517800	Amargosa River
608	INY	127	32.2		Intermittent	24N	06E	29			EAGLE MTN	36.19142012650	-116.36364461800	Amargosa River
609	INY	127	31.5	Amargosa River	Intermittent	24N	06E	29			EAGLE MTN	36.18913526420	-116.35061705000	Amargosa River
610	INY	127	29.3	Amargosa River	Intermittent	24N	06E	34			EAGLE MTN	36.16957732580	-116.32581176400	Amargosa River
611	INY	127	26		Intermittent	23N	06E	14			EAGLE MTN	36.12585553250	-116.30443876700	Amargosa River
612	INY	127	27.6		Intermittent	23N	06E	10			EAGLE MTN	36.14598455560	-116.31641089700	Amargosa River
613	INY	127	27.3		Intermittent	23N	06E	10			EAGLE MTN	36.14184000570	-116.31294961700	Amargosa River
614	INY	127	33.5		Intermittent	24N	06E	19			WEST OF EAGLE MTN	36.20513140750	-116.37826886700	Amargosa River
615	INY	127	34.2		Intermittent	24N	05E	24			WEST OF EAGLE MTN	36.20974971420	-116.38713659200	Amargosa River
616	INY	127	37.2		Intermittent	24N	05E	10			WEST OF EAGLE MTN	36.23898938620	-116.42430898200	Amargosa River
617	INY	395	28.9		Perennial	20S	37E	9			HAIWEE RESERVOIRS	36.20311798950	-117.97905886400	North Haiwee Reservoir
618	INY	395	29.1		Perennial	20S	37E	9			HAIWEE RESERVOIRS	36.20510343680	-117.97914083600	North Haiwee Reservoir
619	INY	395	29.2		Perennial	20S	37E	9			HAIWEE RESERVOIRS	36.20626039770	-117.97919263800	North Haiwee Reservoir
620	INY	395	29.1		Perennial	20S	37E	9			HAIWEE RESERVOIRS	36.20568167150	-117.97917311700	North Haiwee Reservoir
621	INY	395	29.7		Perennial	20S	37E	9			HAIWEE RESERVOIRS	36.21355484470	-117.97949122400	North Haiwee Reservoir
622	INY	395	23.8		Perennial	21S	37E	10		03702017	HAIWEE RESERVOIRS	36.12885251020	-117.97256447900	Playa
623	INY	395	23.9		Perennial	21S	37E	3		03702017	HAIWEE RESERVOIRS	36.13088194770	-117.97279667500	Playa
624	INY	395	24.1		Perennial	21S	37E	3		03702017	HAIWEE RESERVOIRS	36.13146088890	-117.97286009200	Playa
625	INY	395	24.6		Perennial	21S	37E	3		03702017	HAIWEE RESERVOIRS	36.13304616860	-117.97303534500	Playa
626	INY	395	24.7		Perennial	21S	37E	3		03702017	HAIWEE RESERVOIRS	36.14226193910	-117.97407833400	South Haiwee Reservoir
627	INY	395	24.6		Perennial	21S	37E	3		03702017	HAIWEE RESERVOIRS	36.14116019640	-117.97395725500	South Haiwee Reservoir
628	INY	395	25.6		Perennial	20S	37E	33		03324025	HAIWEE RESERVOIRS	36.15529750190	-117.97554676400	South Haiwee Reservoir
629	INY	395	25.8		Perennial	20S	37E	33		03324025	HAIWEE RESERVOIRS	36.15806003090	-117.97586105300	South Haiwee Reservoir
630	INY	395	25.1		Perennial	20S	37E	33		03324025	HAIWEE RESERVOIRS	36.14786154670	-117.97471371700	South Haiwee Reservoir
631	INY	395	25		Perennial	20S	37E	33		03324025	HAIWEE RESERVOIRS	36.14659965210	-117.97457556200	South Haiwee Reservoir
632	INY	395	25.2		Perennial	20S	37E	33		03324025	HAIWEE RESERVOIRS	36.14881967650	-117.97481861500	South Haiwee Reservoir
633	INY	395	25.9		Perennial	20S	37E	28		03324025	HAIWEE RESERVOIRS	36.15945822220	-117.97617158800	South Haiwee Reservoir
634	INY	395	26		Perennial	20S	37E	28		03324025	HAIWEE RESERVOIRS	36.16123844140	-117.97662486700	South Haiwee Reservoir
635	INY	395	26		Perennial	20S	37E	28		03324025	HAIWEE RESERVOIRS	36.16074881300	-117.97650565200	South Haiwee Reservoir
636	INY	395	31.4		Perennial	19S	37E	32			HAIWEE RESERVOIRS	36.23782006050	-117.98474960000	None
637	INY	395	31.9		Perennial	19S	37E	32			HAIWEE RESERVOIRS	36.24442922060	-117.98792343700	None
638	INY	395	28.4		Perennial	20S	37E	16			HAIWEE RESERVOIRS	36.19600159620	-117.97871836300	North Haiwee Reservoir
639	INY	395	28.3		Perennial	20S	37E	16			HAIWEE RESERVOIRS	36.19400765930	-117.97863300400	North Haiwee Reservoir
640	INY	395	28.5		Perennial	20S	37E	16			HAIWEE RESERVOIRS	36.19685720570	-117.97875618200	North Haiwee Reservoir
641	INY	395	28.8		Perennial	20S	37E	16			HAIWEE RESERVOIRS	36.20075095100	-117.97895669700	North Haiwee Reservoir
642	INY	395	28.5		Perennial	20S	37E	16			HAIWEE RESERVOIRS	36.19746865290	-117.97878320800	North Haiwee Reservoir
643	INY	395	27.9		Perennial	20S	37E	16			HAIWEE RESERVOIRS	36.18816310550	-117.97883185800	North Haiwee Reservoir

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Crossing	COUNTY	RTE	PM	Stream Name	Flow	TOWNSHIP	RANGE	SECTION	COMMENT	APN	USGS 7.5 Quad	Latitude	Longitude	WaterBody
644	INY	395	30.9		Perennial	19S	37E	33			HAIWEE RESERVOIRS	36.23180607930	-117.98184472700	None
645	INY	395	31.1		Perennial	19S	37E	33			HAIWEE RESERVOIRS	36.23357346490	-117.98281763800	None
646	INY	395	31.3		Canal/Ditch	19S	37E	33			HAIWEE RESERVOIRS	36.23652230530	-117.98412630100	North Haiwee Reservoir
647	INY	395	23.6		Perennial	21S	37E	10			HAIWEE RESERVOIRS	36.12645813520	-117.97307238500	Playa
648	INY	395	23.8		Perennial	21S	37E	10			HAIWEE RESERVOIRS	36.12865566050	-117.973332360100	Playa
649	INY	395	26.2		Perennial	20S	37E	28			HAIWEE RESERVOIRS	36.16292472920	-117.97704509100	South Haiwee Reservoir
650	INY	395	26.5	Hogback Creek	Perennial	20S	37E	28			HAIWEE RESERVOIRS	36.16773193100	-117.97748969400	South Haiwee Reservoir
651	INY	395	26.6		Perennial	20S	37E	28			HAIWEE RESERVOIRS	36.16932286480	-117.97756851600	South Haiwee Reservoir
652	INY	395	26.7		Perennial	20S	37E	28			HAIWEE RESERVOIRS	36.17067160250	-117.97762718000	South Haiwee Reservoir
653	INY	395	30.8		Perennial	20S	37E	4			HAIWEE RESERVOIRS	36.22965121050	-117.98080817400	None
654	INY	395	30.2	Summit Creek	Perennial	20S	37E	4			HAIWEE RESERVOIRS	36.22179703040	-117.98030922200	North Haiwee Reservoir
655	INY	395	30.4		Perennial	20S	37E	4			HAIWEE RESERVOIRS	36.22500847000	-117.98044497800	North Haiwee Reservoir
656	INY	395	27.6		Perennial	20S	37E	21			HAIWEE RESERVOIRS	36.18317631700	-117.97863682300	South Haiwee Reservoir
657	INY	395	27.2		Perennial	20S	37E	21			HAIWEE RESERVOIRS	36.17786776210	-117.97839811800	South Haiwee Reservoir
658	INY	395	27.2		Perennial	20S	37E	21			HAIWEE RESERVOIRS	36.17827029050	-117.97841491700	South Haiwee Reservoir
659	INY	395	27.2		Perennial	20S	37E	21			HAIWEE RESERVOIRS	36.17839129280	-117.97842024400	South Haiwee Reservoir
660	INY	395	26.9		Perennial	20S	37E	21			HAIWEE RESERVOIRS	36.17354889480	-117.97775103400	South Haiwee Reservoir
661	INY	395	27.2		Perennial	20S	37E	21			HAIWEE RESERVOIRS	36.17827355070	-117.97796839900	South Haiwee Reservoir
662	INY	395	27.8		Perennial	20S	37E	21			HAIWEE RESERVOIRS	36.18628757020	-117.97877044700	South Haiwee Reservoir
663	INY	395	24.3		Perennial	21S	37E	3			HAIWEE RESERVOIRS	36.13627234460	-117.97416995000	Playa
664	INY	395	24.4		Perennial	21S	37E	3			HAIWEE RESERVOIRS	36.13816670490	-117.97438952800	Playa
665	INY	178	52.3		Intermittent	23N	07E	35			TWELVEMILE SPRING	36.05652924750	-116.18972211300	Amargosa River
666	INY	178	52.3		Intermittent	23N	07E	35			TWELVEMILE SPRING	36.05543914280	-116.18987876400	Amargosa River
667	INY	178	51.9		Intermittent	23N	07E	35			TWELVEMILE SPRING	36.05067539120	-116.19057212300	Amargosa River
668	INY	178	51.6		Intermittent	23N	07E	35			TWELVEMILE SPRING	36.04650735330	-116.19117941900	Amargosa River
669	INY	178	51.9		Intermittent	23N	07E	35			TWELVEMILE SPRING	36.04990517270	-116.19068399000	Amargosa River
670	INY	178	55.9		Intermittent	23N	07E	12	04332003		TWELVEMILE SPRING	36.10878948960	-116.18198262900	Amargosa River
671	INY	178	56.7		Intermittent	23N	07E	12	04332003		TWELVEMILE SPRING	36.11925174930	-116.17954313300	Amargosa River
672	INY	178	50.9		Intermittent	22N	07E	14	04610015		TWELVEMILE SPRING	36.00176610740	-116.19781917000	Amargosa River
673	INY	178	50.9		Intermittent	22N	07E	2			TWELVEMILE SPRING	36.03595427260	-116.19276001200	Amargosa River
674	INY	178	51.2		Intermittent	22N	07E	2			TWELVEMILE SPRING	36.04001482490	-116.19213422900	Amargosa River
675	INY	178	55		Intermittent	23N	07E	13			TWELVEMILE SPRING	36.09447689000	-116.18409372700	Amargosa River
676	INY	178	54.7		Intermittent	23N	07E	13			TWELVEMILE SPRING	36.09149888780	-116.18454555900	Amargosa River
677	INY	178	55.3		Intermittent	23N	07E	13			TWELVEMILE SPRING	36.09889490050	-116.18344089400	Amargosa River
678	INY	178	55.7		Intermittent	23N	07E	12			TWELVEMILE SPRING	36.10513047040	-116.18252750100	Amargosa River
679	INY	178	56.4		Intermittent	23N	07E	12			TWELVEMILE SPRING	36.11482098590	-116.18101969700	Amargosa River
680	INY	178	49		Intermittent	22N	07E	14			TWELVEMILE SPRING	36.00788091610	-116.19687295700	Amargosa River
681	INY	178	49.8		Intermittent	22N	07E	11			TWELVEMILE SPRING	36.02033314550	-116.19504698100	Amargosa River
682	INY	178	54.3		Intermittent	23N	07E	24			TWELVEMILE SPRING	36.08030114460	-116.18620734000	Amargosa River
683	INY	178	52.8		Intermittent	23N	07E	26			TWELVEMILE SPRING	36.06338956140	-116.18867825600	Amargosa River
684	INY	178	52.6		Intermittent	23N	07E	26			TWELVEMILE SPRING	36.06033386420	-116.18912717900	Amargosa River
685	INY	178	53.3		Intermittent	23N	07E	26			TWELVEMILE SPRING	36.07057029570	-116.18764532300	Amargosa River
686	INY	127	25.7		Intermittent	23N	06E	23	04331003	EAST OF DEADMAN PASS	TWELVEMILE SPRING	36.12182840630	-116.30319337300	Amargosa River
687	INY	127	24.7		Intermittent	23N	06E	26	04331003	EAST OF DEADMAN PASS	TWELVEMILE SPRING	36.10702180510	-116.29885442900	Amargosa River
688	INY	127	20		Intermittent	22N	06E	1	04605081M	EAST OF DEADMAN PASS	TWELVEMILE SPRING	36.04159758020	-116.29417271100	Amargosa River
689	INY	127	20.3		Intermittent	22.5N	06E	36	04602001	EAST OF DEADMAN PASS	TWELVEMILE SPRING	36.04512144170	-116.29452352000	Amargosa River

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Crossing	COUNTY	RTE	PM	Stream Name	Flow	TOWNSHIP	RANGE	SECTION	COMMENT	AFN	USGS 7.5 Quad	Latitude	Longitude	WaterBody
690	INY	127 22.1			Intermittent	22.5N	06E	26		046020BLM	EAST OF DEADMAN PASS	36.07159781110	-116.29857615600	Amargosa River
691	INY	127 24			Intermittent	23N	06E	26			EAST OF DEADMAN PASS	36.09778273290	-116.29746397400	Amargosa River
692	INY	127 21.5			Intermittent	22.5N	06E	26			EAST OF DEADMAN PASS	36.06304220430	-116.29720347500	Amargosa River
693	INY	127 16.9			Intermittent	22N	06E	13			EAST OF DEADMAN PASS	36.00228483800	-116.27825202200	Amargosa River
694	INY	127 19			Intermittent	22N	06E	12			EAST OF DEADMAN PASS	36.02762543660	-116.29335999400	Amargosa River
695	INY	127 20.4			Intermittent	22.5N	06E	36			EAST OF DEADMAN PASS	36.04754266220	-116.29444640500	Amargosa River
696	INY	127 19.6			Intermittent	22N	06E	1			EAST OF DEADMAN PASS	36.03577151010	-116.29267514300	Amargosa River
697	INY	127 23.2		Amargosa River	Intermittent	23N	06E	36			EAST OF DEADMAN PASS	36.08759686430	-116.29522408500	Amargosa River
698	INY	127 22.7		Amargosa River	Intermittent	22.5N	06E	23			EAST OF DEADMAN PASS	36.07839215760	-116.29494910400	Amargosa River
699	INY	395 R23.4			Perennial	21S	37E	10		03702017	COSO JUNCTION	36.12270697380	-117.97190193100	Playa
700	INY	395 R21.3			Perennial	21S	37E	22		03704040	COSO JUNCTION	36.09337920690	-117.96289992000	Playa
701	INY	395 R21.4			Perennial	21S	37E	22		03704040	COSO JUNCTION	36.09566311940	-117.96392295500	Playa
702	INY	395 R21.6			Perennial	21S	37E	22		03704006	COSO JUNCTION	36.09796593100	-117.96491633300	Playa
703	INY	395 R21.7			Perennial	21S	37E	22		03704006	COSO JUNCTION	36.09926249530	-117.96546381200	Playa
704	INY	395 R21.8			Perennial	21S	37E	22		03704006	COSO JUNCTION	36.10057426340	-117.96604105600	Playa
705	INY	395 R22			Perennial	21S	37E	15		03702003	COSO JUNCTION	36.10362330770	-117.96737412700	Playa
706	INY	395 23.5			Perennial	21S	37E	10			COSO JUNCTION	36.12445979830	-117.97284171800	Playa
707	INY	395 R23.2			Perennial	21S	37E	10			COSO JUNCTION	36.12077436800	-117.97245160900	Playa
708	INY	395 R23.1		Haiwee Creek	Perennial	21S	37E	10			COSO JUNCTION	36.11856301870	-117.97220991800	Playa
709	INY	395 R20.2			Perennial	21S	37E	26			COSO JUNCTION	36.07852643060	-117.95762532000	Playa
710	INY	395 R20.1			Perennial	21S	37E	26			COSO JUNCTION	36.08437407730	-117.96028634000	Playa
711	INY	395 R20.6			Perennial	21S	37E	26			COSO JUNCTION	36.08616800530	-117.96086633100	Playa
712	INY	395 R20.8			Perennial	21S	37E	26			COSO JUNCTION	36.10855322460	-117.97035364700	Playa
713	INY	395 R22.4			Perennial	21S	37E	15			COSO JUNCTION	36.05352691560	-117.95049969700	None
714	INY	395 R18.4			Perennial	22S	37E	2			COSO JUNCTION	36.06757432010	-117.95414565900	Playa
715	INY	395 R19.4			Perennial	21S	37E	35			COSO JUNCTION	36.09296581010	-117.96356307000	Playa
716	INY	395 R21.2			Perennial	21S	37E	23			COSO JUNCTION	36.08798894560	-117.96062994800	Playa
717	INY	395 R20.9			Perennial	21S	37E	23			COSO JUNCTION	36.08902358040	-117.96184529200	Playa
718	INY	395 R21			Perennial	21S	37E	23			COSO JUNCTION	36.08844830830	-117.96160687700	Playa
719	INY	395 R20.9			Perennial	21S	37E	23			COSO JUNCTION	36.08783838640	-117.96057059200	Playa
720	INY	395 R20.9			Perennial	21S	37E	23			COSO JUNCTION	36.01769788890	-117.93906078400	Playa
721	INY	395 R15.9			Perennial	22S	37E	13			COSO JUNCTION	36.02774574880	-117.94224583200	Playa
722	INY	395 R16.6			Perennial	22S	37E	13			COSO JUNCTION	36.02148211960	-117.94027277100	Playa
723	INY	395 R16.1			Perennial	22S	37E	13			COSO JUNCTION	36.03116072710	-117.94253679500	Playa
724	INY	395 R16.8			Perennial	22S	37E	12			COSO JUNCTION	36.03036473690	-117.94228820400	Playa
725	INY	395 R16.8			Perennial	22S	37E	12			COSO JUNCTION	36.02984642480	-117.94291348700	Playa
726	INY	395 R16.7			Perennial	22S	37E	12			COSO JUNCTION	36.03769875230	-117.94461243900	Playa
727	INY	395 R17.3			Perennial	22S	37E	11			COSO JUNCTION	36.04135071990	-117.94659992400	Playa
728	INY	395 R17.6			Perennial	22S	37E	11			COSO JUNCTION	35.91771051860	-116.26885936400	Amargosa River
729	INY	127 10.9			Intermittent	21N	07E	18		04619003	SHOSHONE	35.97900791100	-116.27066707200	Amargosa River
730	INY	127 15.1			Perennial	22N	07E	30		04612025	SHOSHONE	35.97133287700	-116.26183646600	Amargosa River
731	INY	178 43.4			Intermittent	22N	07E	31		04612025	SHOSHONE	35.97132150230	-116.26135591500	Amargosa River
732	INY	178 43.4			Intermittent	22N	07E	31		04612025	SHOSHONE	35.97134206030	-116.26222022900	Amargosa River
733	INY	178 43.4		Amargosa River	Intermittent	22N	07E	31		04612025	SHOSHONE	35.9872245290	-116.33280690500	Amargosa River
734	INY	178 39.3			Intermittent	22N	06E	21		04606001	SHOSHONE	35.98939138770	-116.33245164400	Amargosa River
735	INY	178 39.5			Intermittent	22N	06E	21		04606001	SHOSHONE			Amargosa River

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Crossing	COUNTY	RTE	PM	Stream Name	Flow	TOWNSHIP	RANGE	SECTION	COMMENT	APN	USGS 7.5 Quad	Latitude	Longitude	WaterBody
736	INV	178	39.2		Intermittent	22N	06E	28		04606001	SHOSHONE	35.98539321020	-116.33374398500	Amargosa River
737	INV	178	38.1		Intermittent	22N	06E	28		04606001	SHOSHONE	35.97412455370	-116.34605168300	Amargosa River
738	INV	178	37.1		Intermittent	22N	06E	32		04606001	SHOSHONE	35.96698666840	-116.36219023900	Amargosa River
739	INV	178	37		Intermittent	22N	06E	32		04606001	SHOSHONE	35.96650797390	-116.36326242600	Amargosa River
740	INV	178	36.3		Intermittent	22N	06E	31		04606001	SHOSHONE	35.96250155620	-116.37445167100	Amargosa River
741	INV	127	16.2		Intermittent	22N	07E	19		04612031	SHOSHONE	35.99319430380	-116.27358779900	Amargosa River
742	INV	178	40.3		Intermittent	22N	06E	22		04606002	SHOSHONE	35.99431158320	-116.31979393700	Amargosa River
743	INV	178	42.5		Intermittent	22N	06E	24		04606002	SHOSHONE	35.99706610220	-116.28256983300	Amargosa River
744	INV	178	41.7		Intermittent	22N	06E	23		04606002	SHOSHONE	35.99600919770	-116.29665789000	Amargosa River
745	INV	127	9.7		Intermittent	21N	07E	19		04622001	SHOSHONE	35.90212995380	-116.25984877800	Amargosa River
746	INV	178	39.7		Intermittent	22N	06E	22			SHOSHONE	35.99158600530	-116.33009747900	Amargosa River
747	INV	127	8.1		Intermittent	21N	07E	31			SHOSHONE	35.88146210770	-116.26128574400	Amargosa River
748	INV	127	7.4		Intermittent	21N	07E	31			SHOSHONE	35.87540276340	-116.27262528900	Amargosa River
749	INV	127	8.2		Intermittent	21N	07E	31			SHOSHONE	35.88200194220	-116.26046153800	Amargosa River
750	INV	178	38		Intermittent	22N	06E	29			SHOSHONE	35.97317079420	-116.34832505700	Amargosa River
751	INV	178	43.7		Intermittent	22N	07E	32			SHOSHONE	35.97168890970	-116.25759176700	Amargosa River
752	INV	178	36.8		Intermittent	22N	06E	32			SHOSHONE	35.96552389230	-116.36588441900	Amargosa River
753	INV	127	11.6		Intermittent	21N	07E	18			SHOSHONE	35.92824640950	-116.26802521000	Amargosa River
754	INV	127	11.1		Intermittent	21N	07E	18			SHOSHONE	35.92059131860	-116.26717068700	Amargosa River
755	INV	178	42.1		Intermittent	22N	06E	24			SHOSHONE	35.99605744070	-116.28981043300	Amargosa River
756	INV	127	15.7		Intermittent	22N	07E	19			SHOSHONE	35.98655907700	-116.27189326500	Amargosa River
757	INV	127	8.6		Perennial	21N	07E	29			SHOSHONE	35.88636414100	-116.25726501000	Amargosa River
758	INV	127	10.5		Intermittent	21N	07E	19			SHOSHONE	35.912242127060	-116.26623689500	Amargosa River
759	INV	127	8.8		Intermittent	21N	07E	30			SHOSHONE	35.89026203500	-116.25752376900	Amargosa River
760	INV	127	9.1		Intermittent	21N	07E	30			SHOSHONE	35.89393805050	-116.25786106700	Amargosa River
761	INV	178	36.2		Intermittent	22N	06E	31		04606001	SALSBERY PEAK	35.96129735780	-116.37695395000	Amargosa River
762	INV	178	36		Intermittent	22N	06E	31			SALSBERY PEAK	35.96129735780	-116.38045583100	Amargosa River
763	INV	178	36		Intermittent	22N	06E	31			SALSBERY PEAK	35.96129735780	-116.37986128500	Amargosa River
764	INV	178	32.3		Intermittent	21N	05E	10			SALSBERY PEAK	35.92953684350	-116.42526944100	Amargosa River
765	INV	178	31.8		Intermittent	21N	05E	15			SALSBERY PEAK	35.92434891110	-116.43017569400	Amargosa River
766	INV	178	31.1		Intermittent	21N	05E	16			SALSBERY PEAK	35.91733549690	-116.43804619200	Amargosa River
767	INV	395	8.8		Intermittent	23S	38E	19			LITTLE LAKE	35.92106589250	-117.90715758500	None
768	INV	395	11.6		Intermittent	23S	38E	6			LITTLE LAKE	35.95915002320	-117.91312775900	Little Lake
769	INV	395	9.3		Intermittent	23S	38E	18			LITTLE LAKE	35.92757853200	-117.90824218200	Intermittent Pond
770	INV	395	87.4		Intermittent	23S	38E	29			LITTLE LAKE	35.90054777770	-117.89963369900	None
771	INV	395	88.1		Intermittent	23S	38E	29			LITTLE LAKE	35.91041964030	-117.90345975000	None
772	SBD	127	40.2		Intermittent	19.5N	06E	34			IBEX PASS	35.77960747770	-116.32597772600	Amargosa River
773	SBD	127	40.4		Intermittent	19.5N	06E	34			IBEX PASS	35.78316511520	-116.32780980300	Amargosa River
774	INV	127	2.6		Intermittent	20N	06E	15		0462608LM	IBEX PASS	35.82755822730	-116.32100570500	Amargosa River
775	INV	127	2		Intermittent	20N	06E	22			IBEX PASS	35.81956147910	-116.32607948100	Amargosa River
776	INV	127	1.4		Intermittent	20N	06E	21			IBEX PASS	35.81256837820	-116.33244982400	Amargosa River
777	INV	127	6.8		Intermittent	21N	06E	36			IBEX PASS	35.87325566410	-116.28198964300	Amargosa River
778	INV	127	6.8		Intermittent	21N	06E	36			IBEX PASS	35.87292699420	-116.28275794400	Amargosa River
779	INV	127	6.6		Intermittent	21N	06E	36			IBEX PASS	35.87197110800	-116.28508876800	Amargosa River
780	INV	127	5.9		Intermittent	20N	06E	2			IBEX PASS	35.86816925370	-116.29716024000	Amargosa River
781	INV	127	5.8		Intermittent	20N	06E	2			IBEX PASS	35.86773750790	-116.29927992200	Amargosa River

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Crossing	COUNTY	RTE	PM	Stream Name	Flow	TOWNSHIP	RANGE	SECTION	COMMENT	APN	USGS 7.5 Quad	Latitude	Longitude	WaterBody
782	INY	127 6			Intermittent	20N	06E	2			IBEX PASS	35.86848658540	-116.29556650900	Amargosa River
783	INY	127 3.8			Intermittent	20N	06E	10			IBEX PASS	35.84418615040	-116.31782615500	Amargosa River
784	INY	127 4.3			Intermittent	20N	06E	10			IBEX PASS	35.85151376180	-116.31424914400	Amargosa River
785	INY	127 3.4			Intermittent	20N	06E	15			IBEX PASS	35.83814417080	-116.31898519400	Amargosa River
786	INY	127 0.9			Intermittent	20N	06E	28			IBEX PASS	35.80664062200	-116.33565402800	Amargosa River
787	INY	395 R1.3			Intermittent	24S	38E	28			PEARSONVILLE	35.81657013160	-117.87400412100	None
788	INY	395 R4.1R			Intermittent	24S	38E	9			PEARSONVILLE	35.85711930520	-117.87565837200	None
789	INY	395 R5.4L			Intermittent	24S	38E	5			NINEMILE CANYON	35.87347087100	-117.88823643200	None
790	SBD	127 32.5			Intermittent	18N	06E	12			SADDLE PEAK HILLS	35.67200770960	-116.29872333100	Amargosa River
791	SBD	127 32.4			Intermittent	18N	06E	12			SADDLE PEAK HILLS	35.67083474110	-116.29847852500	Amargosa River
792	SBD	127 31.9		Amargosa River	Intermittent	18N	06E	12			SADDLE PEAK HILLS	35.66451154000	-116.29708361700	Amargosa River
793	SBD	127 32.8			Intermittent	18N	06E	1			SADDLE PEAK HILLS	35.67707966020	-116.29978188000	Amargosa River
794	SBD	127 32.6			Intermittent	18N	06E	1			SADDLE PEAK HILLS	35.67386757620	-116.29911149700	Amargosa River
795	SBD	127 33.7			Intermittent	19N	06E	35			SADDLE PEAK HILLS	35.68983291410	-116.30243474500	Amargosa River
796	SBD	127 33.6			Intermittent	19N	06E	35			SADDLE PEAK HILLS	35.68744692260	-116.30192998300	Amargosa River
797	SBD	127 29.9		Salt Creek	Intermittent	18N	06E	24			SADDLE PEAK HILLS	35.63607689390	-116.29118285100	Amargosa River
798	SBD	178 14.6			Intermittent	26S	43E	7			WESTEND	35.68002938220	-117.39520661700	Amargosa River
799	SBD	178 R10.6			Intermittent	26S	42E	27			WESTEND	35.65558584070	-117.45472792800	Searles Lake
800	SBD	178 R11			Intermittent	26S	42E	27			WESTEND	35.65542494340	-117.44884936800	Searles Lake
801	SBD	178 R11.4			Intermittent	26S	42E	27			WESTEND	35.65788428260	-117.44082812100	Searles Lake
802	SBD	178 8.9			Intermittent	26S	42E	29			WESTEND	35.64903223380	-117.48331416100	Searles Lake
803	SBD	178 13.1			Intermittent	26S	42E	24			WESTEND	35.67017971880	-117.41718996400	Searles Lake
804	SBD	178 R12.2			Intermittent	26S	42E	23			WESTEND	35.66276178890	-117.42941062100	Searles Lake
805	SBD	178 R12.4			Intermittent	26S	42E	23			WESTEND	35.66484054820	-117.42769740300	Searles Lake
806	SBD	178 R11.9			Intermittent	26S	42E	23			WESTEND	35.66103286680	-117.43300761300	Searles Lake
807	SBD	178 10			Intermittent	26S	42E	28			WESTEND	35.65278535160	-117.46549441600	Searles Lake
808	SBD	178 9.8			Intermittent	26S	42E	28			WESTEND	35.65181913030	-117.46705248600	Searles Lake
809	SBD	178 9.5			Intermittent	26S	42E	28			WESTEND	35.65000582640	-117.47232907500	Searles Lake
810	SBD	178 7.5			Intermittent	26S	41E	25			LONE BUTTE	35.64732895250	-117.50734617700	Searles Lake
811	SBD	178 7.1			Intermittent	26S	41E	25			LONE BUTTE	35.64652432090	-117.51497881100	Searles Lake
812	SBD	178 6.9			Intermittent	26S	41E	25			LONE BUTTE	35.64612703860	-117.51848019500	Searles Lake
813	SBD	178 5.7			Intermittent	26S	41E	27			LONE BUTTE	35.64366277680	-117.54047982200	Searles Lake
814	SBD	178 5.5			Intermittent	26S	41E	27			LONE BUTTE	35.64326487770	-117.54323874900	Searles Lake
815	SBD	178 7.9			Intermittent	26S	42E	30			LONE BUTTE	35.64777229840	-117.50169830500	Searles Lake
816	SBD	178 6.3			Intermittent	26S	41E	26			LONE BUTTE	35.64495206660	-117.52883131700	Searles Lake
817	SBD	178 6.7			Intermittent	26S	41E	26			LONE BUTTE	35.64574921610	-117.52196864200	Searles Lake
818	SBD	178 4.8			Intermittent	26S	41E	34			LONE BUTTE	35.64083001740	-117.55504983700	Searles Lake
819	SBD	178 4.1			Intermittent	26S	41E	33			LONE BUTTE	35.63771776620	-117.56764179500	Searles Lake
820	SBD	178 4.4			Intermittent	26S	41E	33			LONE BUTTE	35.63944979780	-117.56150828800	Searles Lake
821	SBD	127 27.8			Intermittent	18N	07E	30			SHEEP CREEK SPRING	35.61671992330	-116.27019226200	Amargosa River
822	SBD	127 R28.6			Intermittent	18N	07E	30			SHEEP CREEK SPRING	35.62134604780	-116.28177390500	Amargosa River
823	SBD	127 27.4			Intermittent	18N	07E	29			SHEEP CREEK SPRING	35.61410159230	-116.26385423700	Amargosa River
824	SBD	127 2.2			Intermittent	27S	41E	6			SPANGLER HILLS WEST	35.62311629740	-117.59627443600	Searles Lake
825	SBD	127 8.8			Intermittent	15N	08E	22			NORTH OF BAKER	35.37749887290	-116.12203786100	Silver Lake
826	SBD	127 17.2			Intermittent	16N	08E	7			SILURIAN VALLEY	35.49172056890	-116.16913435800	Silurian Lake
827	SBD	127 17.2			Intermittent	16N	08E	7			SILURIAN VALLEY	35.49261234810	-116.16930033800	Silurian Lake

Crossing	COUNTY	RTE	PM	Stream Name	Flow	TOWNSHIP	RANGE	SECTION	COMMENT	APN	USGS 7.5 Quad	Latitude	Longitude	WaterBody
828	SBD	127 17	17		Intermittent	16N	08E	7			SILURIAN VALLEY	35.48914718950	-116.16865539700	Silurian Lake
829	SBD	127 17.4	17.4		Intermittent	16N	08E	7			SILURIAN VALLEY	35.49634045740	-116.17016513800	Silurian Lake
830	SBD	127 16.7	16.7		Intermittent	16N	08E	7			SILURIAN VALLEY	35.48420949670	-116.16715709100	Silurian Lake
831	SBD	127 17.6	17.6		Intermittent	16N	08E	6			SILURIAN VALLEY	35.49936009070	-116.17100825200	Silurian Lake
832	SBD	127 17.6	17.6		Intermittent	16N	08E	6			SILURIAN VALLEY	35.49866525780	-116.17080680800	Silurian Lake
833	SBD	127 15.9	15.9		Intermittent	16N	08E	18			SILURIAN VALLEY	35.47238794620	-116.16624487300	Silurian Lake
834	SBD	127 16.5	16.5		Intermittent	16N	08E	18			SILURIAN VALLEY	35.48121523290	-116.16716796300	Silurian Lake
835	SBD	127 16.2	16.2		Intermittent	16N	08E	18			SILURIAN VALLEY	35.47760358630	-116.16654879600	Silurian Lake
836	SBD	127 12.5	12.5		Intermittent	16N	08E	32			SILURIAN VALLEY	35.42751025900	-116.14532726100	Dry Sand Lake
837	SBD	127 13	13		Intermittent	16N	08E	32			SILURIAN VALLEY	35.43310969090	-116.14943168300	Dry Sand Lake
838	SBD	127 12.6	12.6		Intermittent	16N	08E	32			SILURIAN VALLEY	35.42884521060	-116.14630818400	Dry Sand Lake
839	SBD	127 12.8	12.8		Intermittent	16N	08E	32			SILURIAN VALLEY	35.43061106020	-116.14760157200	Dry Sand Lake
840	SBD	127 13.1	13.1		Intermittent	16N	08E	32			SILURIAN VALLEY	35.43520143930	-116.15096377400	Dry Sand Lake
841	SBD	127 13.3	13.3		Intermittent	16N	08E	32			SILURIAN VALLEY	35.43684795840	-116.15216556700	Dry Sand Lake
842	SBD	127 13.4	13.4		Intermittent	16N	08E	32			SILURIAN VALLEY	35.43810686200	-116.15308189300	Dry Sand Lake
843	SBD	127 11.6	11.6		Intermittent	15N	08E	4			SILURIAN VALLEY	35.41643779260	-116.13715870300	Dry Sand Lake
844	SBD	127 11.9	11.9		Intermittent	15N	08E	4			SILURIAN VALLEY	35.41936698720	-116.13932760400	Dry Sand Lake
845	SBD	127 11.8	11.8		Intermittent	15N	08E	4			SILURIAN VALLEY	35.41782285430	-116.13818401900	Dry Sand Lake
846	SBD	127 11.9	11.9		Intermittent	15N	08E	4			SILURIAN VALLEY	35.41912687850	-116.13914978000	Dry Sand Lake
847	SBD	127 12	12		Intermittent	15N	08E	4			SILURIAN VALLEY	35.42116472190	-116.14065900700	Dry Sand Lake
848	SBD	127 11.5	11.5		Intermittent	15N	08E	4			SILURIAN VALLEY	35.41453915750	-116.13575979800	Dry Sand Lake
849	SBD	127 12.3	12.3		Intermittent	15N	08E	4			SILURIAN VALLEY	35.42466651360	-116.14323735500	Dry Sand Lake
850	SBD	127 12.1	12.1		Intermittent	15N	08E	4			SILURIAN VALLEY	35.42234753040	-116.14153310300	Dry Sand Lake
851	SBD	127 11.3	11.3		Intermittent	15N	08E	4			SILURIAN VALLEY	35.41157522790	-116.13357914800	Dry Sand Lake
852	SBD	127 11.4	11.4		Intermittent	15N	08E	4			SILURIAN VALLEY	35.41367191540	-116.13512094900	Dry Sand Lake
853	SBD	127 15	15		Intermittent	16N	08E	19			SILURIAN VALLEY	35.45953102520	-116.16505218000	Dry Sand Lake
854	SBD	127 14.8	14.8		Intermittent	16N	08E	19			SILURIAN VALLEY	35.45749898390	-116.16398022400	Dry Sand Lake
855	SBD	127 14.6	14.6		Intermittent	16N	08E	19			SILURIAN VALLEY	35.45489523590	-116.16261763500	Dry Sand Lake
856	SBD	127 15	15	Salt Creek	Intermittent	16N	08E	19			SILURIAN VALLEY	35.46050092440	-116.16554213200	Dry Sand Lake
857	SBD	127 15.5	15.5		Intermittent	16N	08E	19			SILURIAN VALLEY	35.46715797050	-116.16612113500	Silurian Lake
858	SBD	127 13.8	13.8		Intermittent	16N	08E	29			SILURIAN VALLEY	35.44355046400	-116.15650862200	Dry Sand Lake
859	SBD	127 13.9	13.9		Intermittent	16N	08E	29			SILURIAN VALLEY	35.44575023100	-116.15771313600	Dry Sand Lake
860	SBD	127 13.6	13.6		Intermittent	16N	08E	29			SILURIAN VALLEY	35.44130092920	-116.15527685600	Dry Sand Lake
861	SBD	127 13.5	13.5		Intermittent	16N	08E	29			SILURIAN VALLEY	35.44003113320	-116.15448252400	Dry Sand Lake
862	SBD	127 14.1	14.1		Intermittent	16N	08E	30			SILURIAN VALLEY	35.44739101840	-116.15861157300	Dry Sand Lake
863	SBD	127 14.2	14.2		Intermittent	16N	08E	30			SILURIAN VALLEY	35.44956462050	-116.15978368200	Dry Sand Lake
864	SBD	127 14.5	14.5		Intermittent	16N	08E	30			SILURIAN VALLEY	35.45341720180	-116.16184480700	Dry Sand Lake
865	SBD	127 14.4	14.4		Intermittent	16N	08E	30			SILURIAN VALLEY	35.45127725820	-116.16070665000	Dry Sand Lake
866	SBD	127 10.1	10.1		Intermittent	15N	08E	10			SILURIAN VALLEY	35.39539578910	-116.12763927700	Dry Sand Lake
867	SBD	127 10.9	10.9		Intermittent	15N	08E	9			SILURIAN VALLEY	35.40746604350	-116.13055745600	Dry Sand Lake
868	SBD	127 11	11		Intermittent	15N	08E	9			SILURIAN VALLEY	35.40873094990	-116.13148760600	Dry Sand Lake
869	SBD	127 10.7	10.7		Intermittent	15N	08E	9			SILURIAN VALLEY	35.40477743820	-116.12870039300	Dry Sand Lake
870	SBD	127 10.3	10.3		Intermittent	15N	08E	9			SILURIAN VALLEY	35.39826332030	-116.12787820000	Dry Sand Lake
871	SBD	127 10.5	10.5		Intermittent	15N	08E	9			SILURIAN VALLEY	35.40171270200	-116.12817147400	Dry Sand Lake
872	SBD	127 10.4	10.4		Intermittent	15N	08E	9			SILURIAN VALLEY	35.39992912270	-116.12801871800	Dry Sand Lake
873	SBD	127 4.8	4.8		Intermittent	14N	08E	1			BAKER	35.33255859970	-116.08149985100	Silver Lake

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Crossing	COUNTY	RTE	PM	Stream Name	Flow	TOWNSHIP	RANGE	SECTION	COMMENT	APN	USGS 7.5 Quad	Latitude	Longitude	WaterBody
874	SBD	127	8.2		Intermittent	15N	08E	22			BAKER	35.37046116510	-116.11559960300	Silver Lake
875	SBD	127	7.8		Intermittent	15N	08E	22			BAKER	35.36681799140	-116.11094131400	Silver Lake
876	SBD	127	7.3		Intermittent	15N	08E	26			BAKER	35.36116874320	-116.10383284000	Silver Lake
877	SBD	127	7.4		Intermittent	15N	08E	26			BAKER	35.36242483560	-116.10539923600	Silver Lake
878	SBD	127	6.4		Intermittent	15N	08E	26			BAKER	35.35281079070	-116.093337831200	Silver Lake
879	SBD	127	5.5		Intermittent	15N	08E	36			BAKER	35.34228694130	-116.08325290700	Silver Lake
880	SBD	127	5.3		Intermittent	15N	08E	36			BAKER	35.33928542460	-116.08270659300	Silver Lake
881	SBD	127	5.1		Intermittent	15N	08E	36			BAKER	35.33692187490	-116.08228580900	Silver Lake
882	SBD	127	2.2		Intermittent	14N	08E	13			BAKER	35.29604549600	-116.08275580200	Silver Lake
883	SBD	127	0.2		Intermittent	14N	08E	25			BAKER	35.26887392590	-116.07501628500	Silver Lake
884	SBD	127	3.2		Intermittent	14N	08E	12			BAKER	35.31020453630	-116.08402798100	Silver Lake
885	INY	168	R19.8	Owens River	Perennial	09S	34E	9			BIG PINE	37.17844531540	-118.26514493300	Tinemaha Reservoir
886	INY	6	3.7	Owens River	Perennial	06S	33E	28			LAWS	37.39860652380	-118.35605265200	Tinemaha Reservoir
887	MNO	395	96	West Walker River	Perennial	06N	23E	9			CHRIS FLAT	38.37997768740	-119.45023835700	Topaz Lake
888	MNO	108	12.9	West Walker River	Perennial	06N	23E	17		0611011	FALES HOT SPRINGS	38.36592184920	-119.48185930900	Topaz Lake



DISTRICT 9 ENVIRONMENTAL
 1602 AGREEMENT **1602-2012-0061-R6**
 MAINTENANCE NOTIFICATION
 NOTIFICATION REQUEST FORM (NRF)

<input type="checkbox"/> ORIGINAL REQUEST
<input type="checkbox"/> REVISION NO.
Date of Request

Name of Requestor:	Phone Number:
Cost Center (EA):	Cell Number/ Pager:
Maintenance Region:	E-Mail:
Project Start Date:	Project End Date:

Location of Work (County/Route/Postmile):
Name of Stream:
Nearest landmark, crossroad or other identifier:
Latitude/Longitude (in Degrees and Minutes):

Maintenance Activities	
<u>Type of Work</u>	<u>Routine Work Requiring Variance</u>
<input type="checkbox"/> Sediment Removal (Amount of material to remove below obvious flow line <input type="checkbox"/> (cubic yards) <input type="checkbox"/> Sediment will be removed with Vactor <input type="checkbox"/> Equipment can work off bank <input type="checkbox"/> Equipment must work from within stream channel <input type="checkbox"/> Hand removal of vegetation <input type="checkbox"/> Tree Thinning <input type="checkbox"/> Tree Removal (By Hand) <input type="checkbox"/> Vegetation removal will include removal of roots <input type="checkbox"/> Herbicide to stump <input type="checkbox"/> Minor Bridge work (cleaning, painting etc.) <input type="checkbox"/> Repair of damaged RSP <input type="checkbox"/> Work will occur in live channel <input type="checkbox"/> Other: restore and stabilize dry wash	<input type="checkbox"/> Work will occur outside RMA Dates <input type="checkbox"/> Access to be created down to waterway <input type="checkbox"/> Other: <p style="text-align: center;"><u>Equipment</u></p> <input type="checkbox"/> Chainsaw/Clippers <input type="checkbox"/> Backhoe/ grade-all <input type="checkbox"/> Excavator <input type="checkbox"/> Vactor <input type="checkbox"/> Other: Bobcat loader.

Description of Proposed Maintenance Work

Section 2: Biological Information

Area Biologist:
Phone:
E-Mail:

Field Review Conducted By:
Date(s) of Biological Field Review:
 Need CESA/FESA Consultation/ Species:
 Known Sensitive Resources:
 Restrictions on Work:
Habitat Classification:

Routine Work
 Urgent – minimum 2 day notice (describe urgency below)
 Emergency – work to begin immediately (describe emergency below)

Section 3: DFG Approval

In accordance with Provisions 1 and 2 of the Agreement between the California Department of Fish and Wildlife (DFW) and the California Department of Transportation (Caltrans) for Routine Maintenance in waterways within/adjacent to State Right of Way for the purposes of protecting and maintaining the state highway system. Caltrans hereby notifies DFW of its intent to perform routine maintenance work within a waterway covered in the Agreement.

DFG Contact Information
Name:
Phone Number:
E-Mail:

Date Submitted to DFW by Caltrans:
Date DFW Responded to Caltrans:

Notice of Concurrence
 Work can begin as scheduled
 Work can begin immediately

Notice of concurrence with conditions (See DFG comments below)
 Work can begin as scheduled
 Work can begin immediately

Notice of non-concurrence with comments (See DFG Comments below)

Heidi Sickler
Senior Environmental
Scientist
Caltrans Liaison
DFW/Inland Deserts
407 West Line Street
Bishop, CA 93514

PERMITS

United States Army Corps of Engineers

Non-Reporting Nationwide No. NW3 (404)

For each single and complete project, no more than 10 generation units (e.g., wind turbines or hydrokinetic devices) are authorized.

This NWP does not authorize activities in coral reefs. Structures in an anchorage area established by the U.S. Coast Guard must comply with the requirements in 33 CFR part 322.5(1)(2). Structures may not be placed in established danger zones or restricted areas as designated in 33 CFR part 334, Federal navigation channels, shipping safety fairways or traffic separation schemes established by the U.S. Coast Guard (see 33 CFR part 322.5(1)(1)), or EPA or Corps designated open water dredged material disposal areas.

Upon completion of the pilot project, the generation units, transmission lines, and other structures or fills associated with the pilot project must be removed to the maximum extent practicable unless they are authorized by a separate Department of the Army authorization, such as another NWP, an individual permit, or a regional general permit. Completion of the pilot project will be identified as the date of expiration of the Federal Energy Regulatory Commission (FERC) license, or the expiration date of the NWP authorization if no FERC license is issued.

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing construction (see 33 CFR part 322.5(1)(3) and 33 CFR part 322.5(1)(4) (Section 31.) (Sections 10 and 404)

Note 1: Utility lines connecting a collection facility to a distribution system are generally considered to be linear projects and each separate line body is eligible for treatment as a separate single and complete line. Utility lines may be authorized by NWP 12 or another Department of the Army authorization.

*Mono
Culvert
Replacement*

Note 2: An activity that is authorized by a locally or federally maintained U.S. Army Corps of Engineers project requires separate approval from the Chief of Engineers under 33 U.S.C. 408.

Note 3: If the pilot project, including any transmission lines, is placed in navigable waters of the United States (i.e., section 10 waters) within the coastal United States, the Great Lakes, and United States territories, copies of the pre-construction notification and NWP verification will be sent by the Corps to the National Oceanic and Atmospheric Administration, National Ocean Service, for charting the generation units and associated transmission line(s) to protect navigation.

Note 4: For any activity that involves the construction of a wind energy generating structure, solar tower, or overhead transmission line, a copy of the PCN and NWP verification will be provided to the Department of Defense Siting Clearinghouse, which will evaluate potential effects on military activities.

C. Nationwide Permit General Conditions

For all Districts

Note: To qualify for NWP authorization, the prospective permittee must comply with the following general conditions, as applicable, in addition to any regional or case-specific conditions imposed by the division engineer or district engineer. Prospective permittees should contact the appropriate Corps district office to determine if regional conditions have been imposed on an NWP. Prospective permittees should also contact the appropriate Corps district office to determine the status of Clean Water Act Section 401 water quality certification and/or Coastal Zone Management Act consistency for an NWP. Every person who may wish to obtain permit authorization under one or more NWPs, or who is currently relying on an existing or prior permit authorization under one or more NWPs, has been and is on notice that all of the

limited to roads, parking lots, and stormwater management facilities within the land-based renewable energy generation facility.

The discharge must not cause the loss of greater than 1/2-acre of non-tidal waters of the United States, including the loss of no more than 300 linear feet of stream bed, unless for intermittent and ephemeral stream beds the district engineer waives the 300 linear foot limit by making a written determination concluding that the discharge will result in minimal adverse effects. This permit does not authorize discharges into non-tidal wetlands adjacent to tidal waters.

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity. (See general condition 31.) (Sections 10 and 404)

Note 1: Utility lines constructed to transfer the energy from the land-based renewable generation facility to a distribution system, regional grid, or other facility are generally considered to be linear projects and each separate and distant crossing of a waterbody is eligible for treatment as a separate single and complete linear project. Those utility lines may be authorized by NWP 12 or another Department of the Army authorization. If the only activities associated with the construction, expansion, or modification of a land-based renewable energy generation facility that require Department of the Army authorization are discharges of dredged or fill material into waters of the United States to construct, maintain, repair, and/or remove utility lines, then NWP 12 shall be used if those activities meet the terms and conditions of NWP 12, including any applicable regional conditions and any case-specific conditions imposed by the district engineer.

Note 2: For any activity that involves the construction of a wind energy generating structure, solar tower, or overhead transmission line, a copy of the PCN and NWP verification will be provided to the Department of Defense Siting Clearinghouse, which will evaluate potential effects on military activities.

52. Water-Based Renewable Energy Generation Pilot Projects. Structures and work in navigable waters of the United States and discharges of dredged or fill material into waters of the United States for the construction, expansion, modification, or removal of water-based wind or hydrokinetic renewable energy generation pilot projects and their attendant features. Attendant features may include, but are not limited to, land-based collection and distribution facilities, control facilities, roads, parking lots, and stormwater management facilities.

For the purposes of this NWP, the term "pilot project" means an experimental project where the renewable energy generation units will be monitored to collect information on their performance and environmental effects at the project site.

The discharge must not cause the loss of greater than 1/2-acre of waters of the United States, including the loss of no more than 300 linear feet of stream bed, unless for intermittent and ephemeral stream beds the district engineer waives the 300 linear foot limit by making a written determination concluding that the discharge will result in minimal adverse effects. The placement of a transmission line on the bed of a navigable water of the United States from the renewable energy generation unit(s) to a land-based collection and distribution facility is considered a structure under Section 10 of the Rivers and Harbors Act of 1899 (see 33 CFR 322.2(b)), and the placement of the transmission line on the bed of a navigable water of the United States is not a loss of waters of the United States for the purposes of applying the 1/2-acre or 300 linear foot limits.

provisions of 33 CFR §§ 330.1 through 330.6 apply to every NWP authorization. Note especially 33 CFR § 330.5 relating to the modification, suspension, or revocation of any NWP authorization.

1. Navigation. (a) No activity may cause more than a minimal adverse effect on navigation.

(b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.

(c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

2. Aquatic Life Movements. No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species.

3. Spawning Areas. Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

4. Migratory Bird Breeding Areas. Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

5. Shellfish Beds. No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWPs 4 and 48, or is a shellfish seeding or habitat restoration activity authorized by NWP 27.

6. Suitable Material. No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act).

7. Water Supply Intakes. No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

8. Adverse Effects From Impoundments. If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.

9. Management of Water Flows. To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization and storm water management activities, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

10. Fills Within 100-Year Floodplains. The activity must comply with applicable FEMA-approved state or local floodplain management requirements.

11. Equipment. Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.

12. Soil Erosion and Sediment Controls. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow.

13. Removal of Temporary Fills. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.

14. Proper Maintenance. Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.

15. Single and Complete Project. The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.

16. Wild and Scenic Rivers. No activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status. Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or study river (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service).

17. Tribal Rights. No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

18. Endangered Species. (a) No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify the critical habitat of such species. No activity is authorized under any NWP which "may affect" a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed.

(b) Federal agencies should follow their own procedures for complying with the requirements of the ESA. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will review the documentation and determine whether it is sufficient to address ESA compliance for the NWP activity, or whether additional ESA consultation is necessary.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species or designated critical habitat, the pre-construction notification must include the name(s) of the endangered or threatened species that might be affected by the proposed work or that utilize the designated critical habitat that might be affected by the proposed work. The district engineer will determine whether the proposed activity "may affect" or will have "no effect" to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps' determination within 45 days of receipt of a complete pre-construction notification. In cases where the non-Federal applicant has identified listed species or critical habitat that might be affected or is in the vicinity of the project, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification the proposed activities will have "no effect" on listed species or critical habitat, or until Section 7 consultation has been completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(d) As a result of formal or informal consultation with the FWS or NMFS the district engineer may add species-specific regional endangered species conditions to the NWPs.

(e) Authorization of an activity by a NWP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the U.S. FWS or the NMFS, The Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word "harm" in the definition of "take" means an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.

(f) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the U.S. FWS and NMFS or their world wide web pages at <http://www.fws.gov/> or <http://www.fws.gov/ipac> and <http://www.noaa.gov/fisheries.html> respectively.

19. Migratory Birds and Bald and Golden Eagles. The permittee is responsible for obtaining any “take” permits required under the U.S. Fish and Wildlife Service’s regulations governing compliance with the Migratory Bird Treaty Act or the Bald and Golden Eagle Protection Act. The permittee should contact the appropriate local office of the U.S. Fish and Wildlife Service to determine if such “take” permits are required for a particular activity.

20. Historic Properties. (a) In cases where the district engineer determines that the activity may affect properties listed, or eligible for listing, in the National Register of Historic Places, the activity is not authorized, until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied.

(b) Federal permittees should follow their own procedures for complying with the requirements of Section 106 of the National Historic Preservation Act. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will review the documentation and determine whether it is sufficient to address section 106 compliance for the NWP activity, or whether additional section 106 consultation is necessary.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if the authorized activity may have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such activities, the pre-construction notification must state which historic properties may be affected by the proposed work or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of or potential for the presence of historic resources can be sought from the State Historic Preservation Officer or Tribal Historic Preservation Officer, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing pre-construction notifications, district engineers will comply with the current procedures for addressing the requirements of Section 106 of the National Historic Preservation Act. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts, which may include background research, consultation, oral history interviews, sample field investigation, and field survey. Based on the information submitted and these efforts, the district engineer shall determine whether the proposed activity has the potential to cause an effect on the historic properties. Where the non-Federal applicant has identified historic properties on which the activity may have the potential to cause effects and so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects or that consultation under Section 106 of the NHPA has been completed.

(d) The district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA Section 106 consultation is required. Section 106 consultation is not required when the Corps determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR §800.3(a)). If NHPA

section 106 consultation is required and will occur, the district engineer will notify the non-Federal applicant that he or she cannot begin work until Section 106 consultation is completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(e) Prospective permittees should be aware that section 110k of the NHPA (16 U.S.C. 470h-2(k)) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

21. Discovery of Previously Unknown Remains and Artifacts. If you discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, you must immediately notify the district engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

22. Designated Critical Resource Waters. Critical resource waters include, NOAA-managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The district engineer may designate, after notice and opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The district engineer may also designate additional critical resource waters after notice and opportunity for public comment.

(a) Discharges of dredged or fill material into waters of the United States are not authorized by NWPs 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, and 52 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters.

(b) For NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, and 38, notification is required in accordance with general condition 31, for any activity proposed in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only after it is determined that the impacts to the critical resource waters will be no more than minimal.

23. Mitigation. The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that adverse effects on the aquatic environment are minimal:

(a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).

(b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the adverse effects to the aquatic environment are minimal.

(c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse effects of the proposed activity are minimal, and provides a project-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in minimal adverse effects on the aquatic environment. Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332.

(1) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in minimal adverse effects on the aquatic environment.

(2) Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, wetland restoration should be the first compensatory mitigation option considered.

(3) If permittee-responsible mitigation is the proposed option, the prospective permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be used by the district engineer to make the decision on the NWP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) – (14) must be approved by the district engineer before the permittee begins work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)).

(4) If mitigation bank or in-lieu fee program credits are the proposed option, the mitigation plan only needs to address the baseline conditions at the impact site and the number of credits to be provided.

(5) Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements) may be addressed through conditions added to the NWP authorization, instead of components of a compensatory mitigation plan.

(d) For losses of streams or other open waters that require pre-construction notification, the district engineer may require compensatory mitigation, such as stream rehabilitation, enhancement, or preservation, to ensure that the activity results in minimal adverse effects on the aquatic environment.

(e) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWPs. For example, if an NWP has an acreage limit of 1/2-acre, it cannot be used to authorize any project resulting in the loss of greater than 1/2-acre of waters of

the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that a project already meeting the established acreage limits also satisfies the minimal impact requirement associated with the NWP.

(f) Compensatory mitigation plans for projects in or near streams or other open waters will normally include a requirement for the restoration or establishment, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, riparian areas may be the only compensatory mitigation required. Riparian areas should consist of native species. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. If it is not possible to establish a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or establishing a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses.

(g) Permittees may propose the use of mitigation banks, in-lieu fee programs, or separate permittee-responsible mitigation. For activities resulting in the loss of marine or estuarine resources, permittee-responsible compensatory mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine credits available for sale or transfer to the permittee. For permittee-responsible mitigation, the special conditions of the NWP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management.

(h) Where certain functions and services of waters of the United States are permanently adversely affected, such as the conversion of a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse effects of the project to the minimal level.

24. Safety of Impoundment Structures. To ensure that all impoundment structures are safely designed, the district engineer may require non-Federal applicants to demonstrate that the structures comply with established state dam safety criteria or have been designed by qualified persons. The district engineer may also require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications made to ensure safety.

25. Water Quality. Where States and authorized Tribes, or EPA where applicable, have not previously certified compliance of an NWP with CWA Section 401, individual 401 Water Quality Certification must be obtained or waived (see 33 CFR 330.4(c)). The district engineer or State or Tribe may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality.

26. Coastal Zone Management. In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). The district engineer or a State may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

27. Regional and Case-By-Case Conditions. The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

28. Use of Multiple Nationwide Permits. The use of more than one NWP for a single and complete project is prohibited, except when the acreage loss of waters of the United States authorized by the NWPs does not exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1/3-acre.

29. Transfer of Nationwide Permit Verifications. If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature:

“When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.”

(Transferee)

(Date)

30. Compliance Certification. Each permittee who receives an NWP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and any required compensatory mitigation. The success of any required permittee-responsible mitigation, including the achievement of ecological performance standards, will be addressed separately by the district engineer. The Corps will provide the permittee the certification document with the NWP verification letter. The certification document will include:

(a) A statement that the authorized work was done in accordance with the NWP authorization, including any general, regional, or activity-specific conditions;

(b) A statement that the implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must include the documentation required by 33 CFR 332.3(1)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and

(c) The signature of the permittee certifying the completion of the work and mitigation.

31. Pre-Construction Notification. (a) Timing. Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a pre-construction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete. The request must specify the information needed to make the PCN complete. As a general rule, district engineers will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity until either:

(1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or

(2) 45 calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 18 that listed species or critical habitat might be affected or in the vicinity of the project, or to notify the Corps pursuant to general condition 20 that the activity may have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or Section 106 of the National Historic Preservation (see 33 CFR 330.4(g)) has been completed. Also, work cannot begin under NWPs 21, 49, or 50 until the permittee has received written approval from the Corps. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee may not begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) Contents of Pre-Construction Notification: The PCN must be in writing and include the following information:

(1) Name, address and telephone numbers of the prospective permittee;

(2) Location of the proposed project;

(3) A description of the proposed project; the project's purpose; direct and indirect adverse environmental effects the project would cause, including the anticipated amount of loss of water of the United States expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. The description should be sufficiently detailed to allow the district engineer to determine that the adverse effects of the project will be minimal and to determine the need for compensatory mitigation. Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the project and when provided results in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed activity (e.g., a conceptual plan), but do not need to be detailed engineering plans);

(4) The PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many waters of the United States. Furthermore, the 45 day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate;

(5) If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied, or explaining why the adverse effects are minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan.

(6) If any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, for non-Federal applicants the PCN must include the name(s) of those endangered or threatened species that might be affected by the proposed work or utilize the designated critical habitat that may be affected by the proposed work. Federal applicants must provide documentation demonstrating compliance with the Endangered Species Act; and

(7) For an activity that may affect a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, for non-Federal applicants the PCN must state which historic property may be affected by the proposed work or include a vicinity map indicating the location of the historic property. Federal applicants must provide documentation demonstrating compliance with Section 106 of the National Historic Preservation Act.

(c) Form of Pre-Construction Notification: The standard individual permit application form (Form ENG 4345) may be used, but the completed application form must clearly indicate that it is a PCN and must include all of the information required in paragraphs (b)(1) through (7) of this general condition. A letter containing the required information may also be used.

(d) Agency Coordination: (1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWPs and the need for mitigation to reduce the project's adverse environmental effects to a minimal level.

(2) For all NWP activities that require pre-construction notification and result in the loss of greater than 1/2-acre of waters of the United States, for NWP 21, 29, 39, 40, 42, 43, 44, 50, 51, and 52 activities that require pre-construction notification and will result in the loss of greater than 300 linear feet of stream bed, and for all NWP 48 activities that require pre-construction notification, the district engineer will immediately provide (e.g., via e-mail, facsimile transmission, overnight mail, or other expeditious manner) a copy of the complete PCN to the appropriate Federal or state offices (U.S. FWS, state natural resource or water quality agency, EPA, State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Office (THPO), and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will have 10 calendar days from the date the material is transmitted to telephone or fax the district engineer notice that they intend to provide substantive, site-specific comments. The comments must explain why the agency believes the adverse effects will be more than minimal. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district engineer will fully consider agency comments received within the specified time frame concerning the proposed activity's compliance with the terms and conditions of the NWPs, including the need for mitigation to ensure the net adverse environmental effects to the aquatic environment of the proposed activity are minimal. The district engineer will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5.

(3) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by Section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act.

(4) Applicants are encouraged to provide the Corps with either electronic files or multiple copies of pre-construction notifications to expedite agency coordination.

D. District Engineer's Decision

1. In reviewing the PCN for the proposed activity, the district engineer will determine whether the activity authorized by the NWP will result in more than minimal individual or cumulative adverse environmental effects or may be contrary to the public interest. For a linear project, this determination will include an evaluation of the individual crossings to determine whether they individually satisfy the terms and conditions of the NWP(s), as well as the cumulative effects caused by all of the crossings authorized by NWP. If an applicant requests a waiver of the 300 linear foot limit on impacts to intermittent or ephemeral streams or of an otherwise applicable limit, as provided for in NWPs 13, 21, 29, 36, 39, 40, 42, 43, 44, 50, 51 or 52, the district engineer will only grant the waiver upon a written determination that the NWP activity will result in minimal adverse effects. When making minimal effects determinations the district engineer will consider the direct and indirect effects caused by the NWP activity. The district engineer will also consider site specific factors, such as the environmental setting in the

vicinity of the NWP activity, the type of resource that will be affected by the NWP activity, the functions provided by the aquatic resources that will be affected by the NWP activity, the degree or magnitude to which the aquatic resources perform those functions, the extent that aquatic resource functions will be lost as a result of the NWP activity (e.g., partial or complete loss), the duration of the adverse effects (temporary or permanent), the importance of the aquatic resource functions to the region (e.g., watershed or ecoregion), and mitigation required by the district engineer. If an appropriate functional assessment method is available and practicable to use, that assessment method may be used by the district engineer to assist in the minimal adverse effects determination. The district engineer may add case-specific special conditions to the NWP authorization to address site-specific environmental concerns.

2. If the proposed activity requires a PCN and will result in a loss of greater than 1/10-acre of wetlands, the prospective permittee should submit a mitigation proposal with the PCN. Applicants may also propose compensatory mitigation for projects with smaller impacts. The district engineer will consider any proposed compensatory mitigation the applicant has included in the proposal in determining whether the net adverse environmental effects to the aquatic environment of the proposed activity are minimal. The compensatory mitigation proposal may be either conceptual or detailed. If the district engineer determines that the activity complies with the terms and conditions of the NWP and that the adverse effects on the aquatic environment are minimal, after considering mitigation, the district engineer will notify the permittee and include any activity-specific conditions in the NWP verification the district engineer deems necessary. Conditions for compensatory mitigation requirements must comply with the appropriate provisions at 33 CFR 332.3(k). The district engineer must approve the final mitigation plan before the permittee commences work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation. If the prospective permittee elects to submit a compensatory mitigation plan with the PCN, the district engineer will expeditiously review the proposed compensatory mitigation plan. The district engineer must review the proposed compensatory mitigation plan within 45 calendar days of receiving a complete PCN and determine whether the proposed mitigation would ensure no more than minimal adverse effects on the aquatic environment. If the net adverse effects of the project on the aquatic environment (after consideration of the compensatory mitigation proposal) are determined by the district engineer to be minimal, the district engineer will provide a timely written response to the applicant. The response will state that the project can proceed under the terms and conditions of the NWP, including any activity-specific conditions added to the NWP authorization by the district engineer.

3. If the district engineer determines that the adverse effects of the proposed work are more than minimal, then the district engineer will notify the applicant either: (a) that the project does not qualify for authorization under the NWP and instruct the applicant on the procedures to seek authorization under an individual permit; (b) that the project is authorized under the NWP subject to the applicant's submission of a mitigation plan that would reduce the adverse effects on the aquatic environment to the minimal level; or (c) that the project is authorized under the NWP with specific modifications or conditions. Where the district engineer determines that mitigation is required to ensure no more than minimal adverse effects occur to the aquatic environment, the activity will be authorized within the 45-day PCN period, with activity-specific

conditions that state the mitigation requirements. The authorization will include the necessary conceptual or detailed mitigation or a requirement that the applicant submit a mitigation plan that would reduce the adverse effects on the aquatic environment to the minimal level. When mitigation is required, no work in waters of the United States may occur until the district engineer has approved a specific mitigation plan or has determined that prior approval of a final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation.

E. Further Information

1. District Engineers have authority to determine if an activity complies with the terms and conditions of an NWP.
2. NWPs do not obviate the need to obtain other federal, state, or local permits, approvals, or authorizations required by law.
3. NWPs do not grant any property rights or exclusive privileges.
4. NWPs do not authorize any injury to the property or rights of others.
5. NWPs do not authorize interference with any existing or proposed Federal project.

F. Definitions

Best management practices (BMPs): Policies, practices, procedures, or structures implemented to mitigate the adverse environmental effects on surface water quality resulting from development. BMPs are categorized as structural or non-structural.

Compensatory mitigation: The restoration (re-establishment or rehabilitation), establishment (creation), enhancement, and/or in certain circumstances preservation of aquatic resources for the purposes of offsetting unavoidable adverse impacts which remain after all appropriate and practicable avoidance and minimization has been achieved.

Currently serviceable: Useable as is or with some maintenance, but not so degraded as to essentially require reconstruction.

Direct effects: Effects that are caused by the activity and occur at the same time and place.

Discharge: The term "discharge" means any discharge of dredged or fill material.

Enhancement: The manipulation of the physical, chemical, or biological characteristics of an aquatic resource to heighten, intensify, or improve a specific aquatic resource function(s). Enhancement results in the gain of selected aquatic resource function(s), but may also lead to a decline in other aquatic resource function(s). Enhancement does not result in a gain in aquatic resource area.

Ephemeral stream: An ephemeral stream has flowing water only during, and for a short duration after, precipitation events in a typical year. Ephemeral stream beds are located above the water table year-round. Groundwater is not a source of water for the stream. Runoff from rainfall is the primary source of water for stream flow.

Establishment (creation): The manipulation of the physical, chemical, or biological characteristics present to develop an aquatic resource that did not previously exist at an upland site. Establishment results in a gain in aquatic resource area.

High Tide Line: The line of intersection of the land with the water's surface at the maximum height reached by a rising tide. The high tide line may be determined, in the absence of actual data, by a line of oil or scum along shore objects, a more or less continuous deposit of fine shell or debris on the foreshore or berm, other physical markings or characteristics, vegetation lines, tidal gages, or other suitable means that delineate the general height reached by a rising tide. The line encompasses spring high tides and other high tides that occur with periodic frequency but does not include storm surges in which there is a departure from the normal or predicted reach of the tide due to the piling up of water against a coast by strong winds such as those accompanying a hurricane or other intense storm.

Historic Property: Any prehistoric or historic district, site (including archaeological site), building, structure, or other object included in, or eligible for inclusion in, the National Register of Historic Places maintained by the Secretary of the Interior. This term includes artifacts, records, and remains that are related to and located within such properties. The term includes properties of traditional religious and cultural importance to an Indian tribe or Native Hawaiian organization and that meet the National Register criteria (36 CFR part 60).

Independent utility: A test to determine what constitutes a single and complete non-linear project in the Corps regulatory program. A project is considered to have independent utility if it would be constructed absent the construction of other projects in the project area. Portions of a multi-phase project that depend upon other phases of the project do not have independent utility. Phases of a project that would be constructed even if the other phases were not built can be considered as separate single and complete projects with independent utility.

Indirect effects: Effects that are caused by the activity and are later in time or farther removed in distance, but are still reasonably foreseeable.

Intermittent stream: An intermittent stream has flowing water during certain times of the year, when groundwater provides water for stream flow. During dry periods, intermittent streams may not have flowing water. Runoff from rainfall is a supplemental source of water for stream flow.

Loss of waters of the United States: Waters of the United States that are permanently adversely affected by filling, flooding, excavation, or drainage because of the regulated activity. Permanent adverse effects include permanent discharges of dredged or fill material that change an aquatic area to dry land, increase the bottom elevation of a waterbody, or change the use of a waterbody. The acreage of loss of waters of the United States is a threshold measurement of the impact to jurisdictional waters for determining whether a project may qualify for an NWP; it is not a net threshold that is calculated after considering compensatory mitigation that may be used to offset losses of aquatic functions and services. The loss of stream bed includes the linear feet of stream bed that is filled or excavated. Waters of the United States temporarily filled, flooded, excavated, or drained, but restored to pre-construction contours and elevations after construction, are not included in the measurement of loss of waters of the United States. Impacts resulting from activities eligible for exemptions under Section 404(f) of the Clean Water Act are not considered when calculating the loss of waters of the United States.

Non-tidal wetland: A non-tidal wetland is a wetland that is not subject to the ebb and flow of tidal waters. The definition of a wetland can be found at 33 CFR 328.3(b). Non-tidal wetlands contiguous to tidal waters are located landward of the high tide line (i.e., spring high tide line).

Open water: For purposes of the NWPs, an open water is any area that in a year with normal patterns of precipitation has water flowing or standing above ground to the extent that an ordinary high water mark can be determined. Aquatic vegetation within the area of standing or flowing water is either non-emergent, sparse, or absent. Vegetated shallows are considered to be open waters. Examples of "open waters" include rivers, streams, lakes, and ponds.

Ordinary High Water Mark: An ordinary high water mark is a line on the shore established by the fluctuations of water and indicated by physical characteristics, or by other appropriate means that consider the characteristics of the surrounding areas (see 33 CFR 328.3(e)).

Perennial stream: A perennial stream has flowing water year-round during a typical year. The water table is located above the stream bed for most of the year. Groundwater is the primary

source of water for stream flow. Runoff from rainfall is a supplemental source of water for stream flow.

Practicable: Available and capable of being done after taking into consideration cost, existing technology, and logistics in light of overall project purposes.

Pre-construction notification: A request submitted by the project proponent to the Corps for confirmation that a particular activity is authorized by nationwide permit. The request may be a permit application, letter, or similar document that includes information about the proposed work and its anticipated environmental effects. Pre-construction notification may be required by the terms and conditions of a nationwide permit, or by regional conditions. A pre-construction notification may be voluntarily submitted in cases where pre-construction notification is not required and the project proponent wants confirmation that the activity is authorized by nationwide permit.

Preservation: The removal of a threat to, or preventing the decline of, aquatic resources by an action in or near those aquatic resources. This term includes activities commonly associated with the protection and maintenance of aquatic resources through the implementation of appropriate legal and physical mechanisms. Preservation does not result in a gain of aquatic resource area or functions.

Re-establishment: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former aquatic resource. Re-establishment results in rebuilding a former aquatic resource and results in a gain in aquatic resource area and functions.

Rehabilitation: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of repairing natural/historic functions to a degraded aquatic resource. Rehabilitation results in a gain in aquatic resource function, but does not result in a gain in aquatic resource area.

Restoration: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former or degraded aquatic resource. For the purpose of tracking net gains in aquatic resource area, restoration is divided into two categories: re-establishment and rehabilitation.

Riffle and pool complex: Riffle and pool complexes are special aquatic sites under the 404(b)(1) Guidelines. Riffle and pool complexes sometimes characterize steep gradient sections of streams. Such stream sections are recognizable by their hydraulic characteristics. The rapid movement of water over a coarse substrate in riffles results in a rough flow, a turbulent surface, and high dissolved oxygen levels in the water. Pools are deeper areas associated with riffles. A slower stream velocity, a streaming flow, a smooth surface, and a finer substrate characterize pools.

Riparian areas: Riparian areas are lands adjacent to streams, lakes, and estuarine-marine shorelines. Riparian areas are transitional between terrestrial and aquatic ecosystems, through which surface and subsurface hydrology connects riverine, lacustrine, estuarine, and marine waters with their adjacent wetlands, non-wetland waters, or uplands. Riparian areas provide a variety of ecological functions and services and help improve or maintain local water quality. (See general condition 23.)

Shellfish seeding: The placement of shellfish seed and/or suitable substrate to increase shellfish production. Shellfish seed consists of immature individual shellfish or individual shellfish attached to shells or shell fragments (i.e., spat on shell). Suitable substrate may consist

of shellfish shells, shell fragments, or other appropriate materials placed into waters for shellfish habitat.

Single and complete linear project: A linear project is a project constructed for the purpose of getting people, goods, or services from a point of origin to a terminal point, which often involves multiple crossings of one or more waterbodies at separate and distant locations. The term “single and complete project” is defined as that portion of the total linear project proposed or accomplished by one owner/developer or partnership or other association of owners/developers that includes all crossings of a single water of the United States (i.e., a single waterbody) at a specific location. For linear projects crossing a single or multiple waterbodies several times at separate and distant locations, each crossing is considered a single and complete project for purposes of NWP authorization. However, individual channels in a braided stream or river, or individual arms of a large, irregularly shaped wetland or lake, etc., are not separate waterbodies, and crossings of such features cannot be considered separately.

Single and complete non-linear project: For non-linear projects, the term “single and complete project” is defined at 33 CFR 330.2(i) as the total project proposed or accomplished by one owner/developer or partnership or other association of owners/developers. A single and complete non-linear project must have independent utility (see definition of “independent utility”). Single and complete non-linear projects may not be “piecemealed” to avoid the limits in an NWP authorization.

Stormwater management: Stormwater management is the mechanism for controlling stormwater runoff for the purposes of reducing downstream erosion, water quality degradation, and flooding and mitigating the adverse effects of changes in land use on the aquatic environment.

Stormwater management facilities: Stormwater management facilities are those facilities, including but not limited to, stormwater retention and detention ponds and best management practices, which retain water for a period of time to control runoff and/or improve the quality (i.e., by reducing the concentration of nutrients, sediments, hazardous substances and other pollutants) of stormwater runoff.

Stream bed: The substrate of the stream channel between the ordinary high water marks. The substrate may be bedrock or inorganic particles that range in size from clay to boulders. Wetlands contiguous to the stream bed, but outside of the ordinary high water marks, are not considered part of the stream bed.

Stream channelization: The manipulation of a stream’s course, condition, capacity, or location that causes more than minimal interruption of normal stream processes. A channelized stream remains a water of the United States.

Structure: An object that is arranged in a definite pattern of organization. Examples of structures include, without limitation, any pier, boat dock, boat ramp, wharf, dolphin, weir, boom, breakwater, bulkhead, revetment, riprap, jetty, artificial island, artificial reef, permanent mooring structure, power transmission line, permanently moored floating vessel, piling, aid to navigation, or any other manmade obstacle or obstruction.

Tidal wetland: A tidal wetland is a wetland (i.e., water of the United States) that is inundated by tidal waters. The definitions of a wetland and tidal waters can be found at 33 CFR 328.3(b) and 33 CFR 328.3(f), respectively. Tidal waters rise and fall in a predictable and measurable rhythm or cycle due to the gravitational pulls of the moon and sun. Tidal waters end where the rise and fall of the water surface can no longer be practically measured in a predictable

rhythm due to masking by other waters, wind, or other effects. Tidal wetlands are located channelward of the high tide line, which is defined at 33 CFR 328.3(d).

Vegetated shallows: Vegetated shallows are special aquatic sites under the 404(b)(1) Guidelines. They are areas that are permanently inundated and under normal circumstances have rooted aquatic vegetation, such as seagrasses in marine and estuarine systems and a variety of vascular rooted plants in freshwater systems.

Waterbody: For purposes of the NWPs, a waterbody is a jurisdictional water of the United States. If a jurisdictional wetland is adjacent – meaning bordering, contiguous, or neighboring – to a waterbody determined to be a water of the United States under 33 CFR 328.3(a)(1)-(6), that waterbody and its adjacent wetlands are considered together as a single aquatic unit (see 33 CFR 328.4(c)(2)). Examples of “waterbodies” include streams, rivers, lakes, ponds, and wetlands.

Conway
Summit &
South

Los Angeles District Final Regional Conditions for the 2012 NWP

- *1. For all activities in waters of the U.S. that are suitable habitat for federally-listed fish species, the permittee shall design all road crossings to ensure that the passage and/or spawning of fish is not hindered. In these areas, the permittee shall employ bridge designs that span the stream or river, including pier- or pile-supported spans, or designs that use a bottomless arch culvert with a natural stream bed, unless determined to be impracticable by the Corps.
2. Nationwide Permits (NWP) 3, 7, 12-15, 17-19, 21, 23, 25, 29, 35, 36, or 39-46, 48-52 cannot be used to authorize structures, work, and/or the discharge of dredged or fill material that would result in the "loss" of wetlands, mudflats, vegetated shallows or riffle and pool complexes as defined at 40 CFR Part 230.40-45. The definition of "loss" for this regional condition is the same as the definition of "loss of waters of the United States" used for the Nationwide Permit Program. Furthermore, this regional condition applies only within the State of Arizona and within the Mojave and Sonoran (Colorado) desert regions of California. The desert regions in California are limited to four USGS Hydrologic Unit Code (HUC) accounting units (Lower Colorado -150301, Northern Mojave-180902, Southern Mojave-181001, and Salton Sea-181002).
- *3. When a pre-construction notification (PCN) is required, the appropriate U.S. Army Corps of Engineers (Corps) District shall be notified in accordance with General Condition 31 using either the South Pacific Division PCN Checklist or a signed application form (ENG Form 4345) with an attachment providing information on compliance with all of the General and Regional Conditions. The PCN Checklist and application form are available at: <http://www.spl.usace.army.mil/regulatory>. In addition, the PCN shall include:
 - a. A written statement describing how the activity has been designed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States;
 - b. Drawings, including plan and cross-section views, clearly depicting the location, size and dimensions of the proposed activity as well as the location of delineated waters of the U.S. on the site. The drawings shall contain a title block, legend and scale, amount (in cubic yards) and area (in acres) of fill in Corps jurisdiction, including both permanent and temporary fills/structures. The ordinary high water mark or, if tidal waters, the mean high water mark and high tide line, should be shown (in feet), based on National Geodetic Vertical Datum (NGVD) or other appropriate referenced elevation. All drawings for projects located within the boundaries of the Los Angeles District shall comply with the most current version of the *Map and Drawing Standards for the Los Angeles District Regulatory Division* (available on the Los Angeles District Regulatory Division website at: www.spl.usace.army.mil/regulatory/); and

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- c. Numbered and dated pre-project color photographs showing a representative sample of waters proposed to be impacted on the project site, and all waters proposed to be avoided on and immediately adjacent to the project site. The compass angle and position of each photograph shall be documented on the plan-view drawing required in subpart b of this regional condition.
4. Submission of a PCN pursuant to General Condition 31 and Regional Condition 3 shall be required for all regulated activities in the following locations:
 - a. All perennial waterbodies and special aquatic sites within the State of Arizona and within the Mojave and Sonoran (Colorado) desert regions of California, excluding the Colorado River in Arizona from Davis Dam to River Mile 261 (northern boundary of the Fort Mojave Indian Tribe Reservation). The desert region in California is limited to four USGS HUC accounting units (Lower Colorado -150301, Northern Mojave-180902, Southern Mojave-181001, and Salton Sea-181002).
 - *b. All areas designated as Essential Fish Habitat (EFH) by the Pacific Fishery Management Council (i.e., all tidally influenced areas - Federal Register dated March 12, 2007 (72 FR 11092)), in which case the PCN shall include an EFH assessment and extent of proposed impacts to EFH. Examples of EFH habitat assessments can be found at: <http://www.swr.noaa.gov/efh.htm>.
 - c. All watersheds in the Santa Monica Mountains in Los Angeles and Ventura counties bounded by Calleguas Creek on the west, by Highway 101 on the north and east, and by Sunset Boulevard and Pacific Ocean on the south.
 - d. The Santa Clara River watershed in Los Angeles and Ventura counties, including but not limited to Aliso Canyon, Agua Dulce Canyon, Sand Canyon, Bouquet Canyon, Mint Canyon, South Fork of the Santa Clara River, San Francisquito Canyon, Castaic Creek, Piru Creek, Sespe Creek and the main-stem of the Santa Clara River.
5. Individual Permits shall be required for all discharges of fill material in jurisdictional vernal pools, with the exception that discharges for the purpose of restoration, enhancement, management or scientific study of vernal pools may be authorized under NWP 5, 6, and 27 with the submission of a PCN in accordance with General Condition 31 and Regional Condition 3.
6. Individual Permits shall be required in Murrieta Creek and Temecula Creek watersheds in Riverside County for new permanent fills in perennial and intermittent watercourses otherwise authorized under NWP 29, 39, 42 and 43, and in ephemeral watercourses for these NWP 14 for projects that impact greater than 0.1 acre of waters of the United States. In addition, when NWP 14 is used in conjunction with residential, commercial, or industrial developments the 0.1 acre limit would also apply.
7. Individual Permits (Standard Individual Permit or 404 Letter of Permission) shall be required

in San Luis Obispo Creek and Santa Rosa Creek in San Luis Obispo County for bank stabilization projects, and in Gaviota Creek, Mission Creek and Carpinteria Creek in Santa Barbara County for bank stabilization projects and grade control structures.

8. In conjunction with the Los Angeles District's Special Area Management Plans (SAMPs) for the San Diego Creek Watershed and San Juan Creek/Western San Mateo Creek Watersheds in Orange County, California, the Corps' Division Engineer, through his discretionary authority has revoked the use of the following 26 selected NWP's within these SAMP watersheds: 03, 07, 12, 13, 14, 16, 17, 18, 19, 21, 25, 27, 29, 31, 33, 39, 40, 41, 42, 43, 44, 46, 49, 50, 51 and 52. Consequently, these NWP's are no longer available in those watersheds to authorize impacts to waters of the United States from discharges of dredged or fill material under the Corps' Clean Water Act section 404 authority.
- *9. Any requests to waive the 300 linear foot limitation for intermittent and ephemeral streams for NWP's 29, 39, 40 and 42, 43, 44, 51 and 52 or to waive the 500 linear foot limitation along the bank for NWP 13, must include the following:
 - a. A narrative description of the stream. This should include known information on: volume and duration of flow; the approximate length, width, and depth of the waterbody and characters observed associated with an Ordinary High Water Mark (e.g. bed and bank, wrack line, or scour marks); a description of the adjacent vegetation community and a statement regarding the wetland status of the associated vegetation community (i.e. wetland, non-wetland); surrounding land use; water quality; issues related to cumulative impacts in the watershed, and; any other relevant information.
 - b. An analysis of the proposed impacts to the waterbody in accordance with General Condition 31 and Regional Condition 3;
 - c. Measures taken to avoid and minimize losses, including other methods of constructing the proposed project; and
 - d. A compensatory mitigation plan describing how the unavoidable losses are proposed to be compensated, in accordance with 33 CFR Part 332.
- *10. The permittee shall complete the construction of any compensatory mitigation required by special condition(s) of the NWP verification before or concurrent with commencement of construction of the authorized activity, except when specifically determined to be impracticable by the Corps. When mitigation involves use of a mitigation bank or in-lieu fee program, the permittee shall submit proof of payment to the Corps prior to commencement of construction of the authorized activity.

*regional conditions developed jointly with the Corps' San Francisco and Sacramento Districts

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1.* When pre-construction notification (PCN) is required, the permittee shall notify the U.S. Army Corps of Engineers, Sacramento District (Corps) in accordance with General Condition 31 using either the South Pacific Division Preconstruction Notification (PCN) Checklist or a signed application form (ENG Form 4345) with an attachment providing information on compliance with all of the General and Regional Conditions. In addition, the PCN shall include:

a. A written statement describing how the activity has been designed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States;

b. Drawings, including plan and cross-section views, clearly depicting the location, size and dimensions of the proposed activity, as well as the location of delineated waters of the U.S. on the site. The drawings shall contain a title block, legend and scale, amount (in cubic yards) and area (in acres) of fill in Corps jurisdiction, including both permanent and temporary fills/structures. The ordinary high water mark or, if tidal waters, the mean high water mark and high tide line, should be shown (in feet), based on National Geodetic Vertical Datum (NGVD) or other appropriate referenced elevation. All drawings for activities located within the boundaries of the Los Angeles District shall comply with the September 15, 2010 Special Public Notice: *Map and Drawing Standards for the Los Angeles District Regulatory Division*, (available on the Los Angeles District Regulatory Division website at: www.spl.usace.army.mil/regulatory/); and

c. Numbered and dated pre-project color photographs showing a representative sample of waters proposed to be impacted on the site, and all waters of the U.S. proposed to be avoided on and immediately adjacent to the activities site. The compass angle and position of each photograph shall be identified on the plan-view drawing(s) required in subpart b of this Regional Condition.

2. For all Nationwide Permits (NWP), the permittee shall submit a PCN in accordance with General Condition 31 and Regional Condition 1, in the following circumstances:

a. For all activities that would result in the discharge of fill material into any vernal pool;

b. For any activity in the Primary and Secondary Zones of the Legal Delta, the Sacramento River, the San Joaquin River, and the immediate tributaries of these waters;

c. For all crossings of perennial waters and intermittent waters;

d. For all activities proposed within 100 feet of the point of discharge of a known natural spring source, which is any location where ground water emanates from a point in the ground excluding seeps or other discharges which lack a defined channel; and

e.* For all activities located in areas designated as Essential Fish Habitat (EFH) by the Pacific Fishery Management Council (i.e., all tidally influenced areas - Federal Register dated March 12, 2007 (72 FR 11092)), in which case the PCN shall include an EFH assessment and extent of proposed impacts to EFH. Examples of EFH habitat assessments can be found at: <http://www.swr.noaa.gov/efh.htm>.

3. The permittee shall record the NWP verification with the Registrar of Deeds or other appropriate official charged with the responsibility for maintaining records of title to or interest in real property for areas (1) designated to be preserved as part of compensatory mitigation for authorized impacts, including any associated covenants or restrictions, or (2) where boat ramps or docks, marinas, piers, and permanently moored vessels will be constructed or placed in or adjacent to navigable waters. The recordation shall also include a map showing the surveyed location of the preserved area or authorized structure.

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4. For all waters of the U.S. proposed to be avoided on a site, unless determined to be impracticable by the Corps, the permittee shall:

- a. Establish and maintain, in perpetuity, a preserve containing all avoided waters of the U.S. to ensure that the functions of the aquatic environment are protected;
- b. Place all avoided waters of the U.S. and any upland buffers into a separate parcel prior to discharging dredge or fill material into waters of the U.S., and
- c. Establish permanent legal protection for all preserve parcels, following Corps approval of the legal instrument;

If the Corps determines that it is impracticable to require permanent preservation of the avoided waters, additional mitigation may be required in order to compensate for indirect impacts to the waters of the U.S.

5. For all temporary fills, the PCN shall include a description of the proposed temporary fill, including the type and amount of material to be placed, the area proposed to be impacted, and the proposed plan for restoration of the temporary fill area to pre-activities contours and conditions, including a plan for the re-vegetation of the temporary fill area, if necessary. In addition, the PCN shall include the reason(s) why avoidance of temporary impacts is not practicable.

In addition, for all activities resulting in temporary fill within waters of the U.S., the permittee shall:

- a. Utilize material consisting of clean and washed gravel. For temporary fills within waters of the U.S. supporting anadromous fisheries, spawning quality gravel shall be used, where practicable, as determined by the Corps, after consultation with appropriate Federal and state fish and wildlife agencies;
- b. Place a horizontal marker (e.g. fabric, certified weed free straw, etc.) to delineate the existing ground elevation of the waters temporarily filled during construction; and
- c. Remove all temporary fill within 30 days following completion of construction activities.

6. In addition to the requirements of General Condition 2, unless determined to be impracticable by the Corps, the following criteria shall apply to all road crossings:

a.* For all activities in waters of the U.S. that are suitable habitat for Federally-listed fish species, the permittee shall design all road crossings to ensure that the passage and/or spawning of fish is not hindered. In these areas, the permittee shall employ bridge designs that span the stream or river, including pier- or pile-supported spans, or designs that use a bottomless arch culvert with a natural stream bed;

b. Road crossings shall be designed to ensure that no more than minor impacts would occur to fish and wildlife passage or expected high flows, following the criteria listed in Regional Condition 6(a). Culverted crossings that do not utilize a bottomless arch culvert with a natural stream bed may be authorized for waters that do not contain suitable habitat for Federally listed fish species, if it can be demonstrated and is specifically determined by the Corps, that such crossing will result in no more than minor impacts to fish and wildlife passage or expected high flows;

c. No construction activities shall occur within standing or flowing waters. For ephemeral or intermittent streams, this may be accomplished through construction during the dry season. In perennial

* Regional Condition developed jointly between Sacramento District, Los Angeles District, and San Francisco District.

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streams, this may be accomplished through dewatering of the work area. Any proposed dewatering plans must be approved, in writing, by the Corps prior to commencement of construction activities; and

d. All bank stabilization activities associated with a road crossing shall comply with Regional Condition 19.

In no case shall stream crossings result in a reduction in the pre-construction bankfull width or depth of perennial streams or negatively alter the flood control capacity of perennial streams.

7.* For activities in which the Corps designates another Federal agency as the lead for compliance with Section 7 of the Endangered Species Act (ESA) of 1973 as amended, pursuant to 50 CFR Part 402.07, Section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act (EFH), pursuant to 50 CFR 600.920(b) and/or Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended, pursuant to 36 CFR 800.2(a)(2), the lead Federal agency shall provide all relevant documentation to the Corps demonstrating any previous consultation efforts, as it pertains to the Corps Regulatory permit area (for Section 7 and EFH compliance) and the Corps Regulatory area of potential effect (APE) (for Section 106 compliance). For activities requiring a PCN, this information shall be submitted with the PCN. If the Corps does not designate another Federal agency as the lead for ESA, EFH and/or NHPA, the Corps will initiate consultation for compliance, as appropriate.

8. For all NWP's which require a PCN, the permittee shall submit the following additional information with the compliance certificate required under General Condition 30:

a. As-built drawings of the work conducted on the project site and any on-site and/or off-site compensatory mitigation, preservation, and/or avoidance area(s). The as-builts shall include a plan-view drawing of the location of the authorized work footprint (as shown on the permit drawings), with an overlay of the work as constructed in the same scale as the permit drawings. The drawing shall show all areas of ground disturbance, wetland impacts, structures, and the boundaries of any on-site and/or off-site mitigation or avoidance areas. Please note that any deviations from the work as authorized, which result in additional impacts to waters of the U.S., must be coordinated with the appropriate Corps office prior to impacts; and

b. Numbered and dated post-construction color photographs of the work conducted within a representative sample of the impacted waters of the U.S., and within all avoided waters of the U.S. on and immediately adjacent to the proposed activities area. The compass angle and position of all photographs shall be similar to the pre-construction color photographs required in Regional Condition 1(c) and shall be identified on the plan-view drawing(s) required in subpart a of this Regional Condition.

9. For all activities requiring permittee responsible mitigation, the permittee shall develop and submit to the Corps for review and approval, a final comprehensive mitigation and monitoring plan for all permittee responsible mitigation prior to commencement of construction activities within waters of the U.S. The plan shall include the mitigation location and design drawings, vegetation plans, including target species to be planted, and final success criteria, presented in the format of the *Sacramento District's Habitat Mitigation and Monitoring Proposal Guidelines*, dated December 30, 2004, and in compliance with the requirements of 33 CFR 332.

10.* The permittee shall complete the construction of any compensatory mitigation required by special condition(s) of the NWP verification before or concurrent with commencement of construction of the authorized activity, except when specifically determined to be impracticable by the Corps. When mitigation involves use of a mitigation bank or in-lieu fee program, the permittee shall submit proof of payment to the Corps prior to commencement of construction of the authorized activity.

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11. The permittee is responsible for all authorized work and ensuring that all contractors and workers are made aware and adhere to the terms and conditions of the permit authorization. The permittee shall ensure that a copy of the permit authorization and associated drawings are available and visible for quick reference at the site until all construction activities are completed.
12. The permittee shall clearly identify the limits of disturbance in the field with highly visible markers (e.g. construction fencing, flagging, silt barriers, etc.) prior to commencement of construction activities within waters of the U.S. The permittee shall maintain such identification properly until construction is completed and the soils have been stabilized. The permittee is prohibited from any activity (e.g. equipment usage or materials storage) that impacts waters of the U.S. outside of the permit limits (as shown on the permit drawings).
13. For all activities in which a PCN is required, the permittee shall notify the appropriate district office of the start date for the authorized work within 10 days prior to initiation of construction activities.
14. The permittee shall allow Corps representatives to inspect the authorized activity and any mitigation areas at any time deemed necessary to determine compliance with the terms and conditions of the NWP verification. The permittee will be notified in advance of an inspection.
15. For all activities located in the Mather Core Recovery Area in Sacramento County, as identified in the U.S. Fish and Wildlife Service's *Recovery Plan for Vernal Pool Ecosystems of California and Southern Oregon* dated December 15, 2005, NWPs 14, 18, 23, 29, 39, 40, 42, 43 and 44 are revoked from use in vernal pools that may contain habitat for Federally-listed threatened and/or endangered vernal pool species.
16. For activities located in the Primary or Secondary Zone of the Legal Delta, NWPs 29 and 39 are revoked.
17. For all activities within the Secondary Zone of the Legal Delta, the permittee shall conduct compensatory mitigation for unavoidable impacts within the Secondary Zone of the Legal Delta.
18. For NWP 12: Permittees shall ensure the construction of utility lines does not result in the draining of any water of the U.S., including wetlands. This may be accomplished through the use of clay blocks, bentonite, or other suitable material (as approved by the Corps) to seal the trench. For utility line trenches, during construction, the permittee shall remove and stockpile, separately, the top 6 – 12 inches of topsoil. Following installation of the utility line(s), the permittee shall replace the stockpiled topsoil on top and seed the area with native vegetation. The permittee shall submit a PCN for utility line activities in the following circumstances:
 - a. The utility line crossing would result in a discharge of dredged and/or fill material into perennial waters, intermittent waters, wetlands, mudflats, vegetated shallows, riffle and pool complexes, sanctuaries and refuges or coral reefs;
 - b. The utility line activity would result in a discharge of dredged and/or fill material into greater than 100 linear feet of ephemeral waters of the U.S.;
 - c. The utility line installation would include the construction of a temporary or permanent access road, substation or foundation within waters of the U.S.; or

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d. The proposed activity would not involve the restoration of all utility line trenches to pre-project contours and conditions within 30 days following completion of construction activities.

19. For NWP 13 and 14: All bank stabilization activities shall involve either the sole use of native vegetation or other bioengineered design techniques (e.g. willow plantings, root wads, large woody debris, etc.), or a combination of hard-armoring (e.g. rip-rap) and native vegetation or bioengineered design techniques, unless specifically determined to be impracticable by the Corps. The permittee shall submit a PCN for any bank stabilization activity that involves hard-armoring or the placement of any non-vegetated or non-bioengineered technique below the ordinary high water mark or, if tidal waters, the high tide line of waters of the U.S. The request to utilize non-vegetated techniques must include information on why the sole use of vegetated techniques is not practicable.

20. For NWP 23: The permittee shall submit a PCN for all activities proposed for this NWP, in accordance with General Condition 31 and Regional Condition 1. The PCN shall include a copy of the signed Categorical Exclusion document and final agency determinations regarding compliance with ESA, EFH and NHPA, in accordance with General Conditions 18 and 20 and Regional Condition 7.

21. For NWP 27: The permittee shall submit a PCN for aquatic habitat restoration, establishment, and enhancement activities in the following circumstances:

a. The restoration, establishment or enhancement activity would result in a discharge of dredged and/or fill material into perennial waters, intermittent waters, wetlands, mudflats, vegetated shallows, riffle and pool complexes, sanctuaries and refuges or coral reefs; or

b. The restoration, establishment or enhancement activity would result in a discharge of dredged and/or fill material into greater than 100 linear feet of ephemeral waters of the U.S.

22. For NWPs 29 and 39: The channelization or relocation of intermittent or perennial drainages is not authorized, except when, as determined by the Corps, the relocation would result in a net increase in functions of the aquatic ecosystem within the watershed.

23.* Any requests to waive the 300 linear foot limitation for intermittent and ephemeral streams for NWPs 21, 29, 39, 40, 42, 43, 44, 50, 51 and 52, or to waive the 500 linear foot limitation along the bank for NWP 13, must include the following:

a. A narrative description of the stream. This should include known information on: volume and duration of flow; the approximate length, width, and depth of the waterbody and characteristics observed associated with an Ordinary High Water Mark (e.g. bed and bank, wrack line or scour marks); a description of the adjacent vegetation community and a statement regarding the wetland status of the adjacent areas (i.e. wetland, non-wetland); surrounding land use; water quality; issues related to cumulative impacts in the watershed, and; any other relevant information;

b. An analysis of the proposed impacts to the waterbody, in accordance with General Condition 31 and Regional Condition 1;

c. Measures taken to avoid and minimize losses to waters of the U.S., including other methods of constructing the proposed activity(s); and

d. A compensatory mitigation plan describing how the unavoidable losses are proposed to be offset, in accordance with 33 CFR 332.

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24. For NWP 29, 39, 40, 42, and 43: The permittee shall establish and maintain upland vegetated buffers in perpetuity, unless specifically determined to be impracticable by the Corps, next to all preserved open waters, streams and wetlands including created, restored, enhanced or preserved waters of the U.S., consistent with General Condition 23(f). Except in unusual circumstances, as determined by the Corps, vegetated buffers shall be at least 50 feet in width.

25. For NWP 46: The discharge shall not cause the loss of greater than 0.5 acres of waters of the United States or the loss of more than 300 linear feet of ditch, unless specifically waived in writing by the Corps.

26. All NWPs except 3, 6, 20, 27, 32, and 38 are revoked for activities in histosols, fens, bogs and peatlands and in wetlands contiguous with fens. Fens are defined as slope wetlands with a histic epipedon that are hydrologically supported by groundwater. Fens are normally saturated throughout the growing season, although they may not be during drought conditions. For NWPs 3, 6, 20, 27, 32, and 38, the permittee shall submit a PCN to the Corps in accordance with General Condition 31 and Regional Condition 1. This condition does not apply to NWPs 1, 2, 8, 9, 10, 11, 24, 28, 35 or 36, as these NWPs either apply to Section 10 only activities or do not authorize impacts to special aquatic sites.