3 June 2016

Nancy H. Sandburg
United States Army Corps of Engineers
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Sacramento, CA 95814

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ORDER AMENDING CLEAN WATER ACT § 401 TECHNICALLY CONDITIONED WATER QUALITY CERTIFICATION; UNITED STATES ARMY CORPS OF ENGINEERS, FOLSOM DAM MODIFICATION PROJECT (WDID#5A34CR00573A2), SACRAMENTO COUNTY

This Order amends the Folsom Dam Modification Project § 401 Water Quality Certification (5A34CR00573). The original Water Quality Certification (Certification) was issued on 18 January 2013. The original Certification was rescinded and reissued on 10 April 2013 and amended on 20 September 2013. The second amendment is hereby approved. The reissued Certification is therefore amended as described below. Please attach this document to the reissued Certification.

AMENDMENT:

The reissued Certification omitted a portion of the project description submitted in the original application. The Certification is amended to:

1. modify the Project Information Sheet shown in underline/strikeout format below;

   Project Description: The Folsom Dam Modification Project will construct a new support spillway on the Folsom Dam. The new spillway consists of an approach channel, control structure, auxiliary spillway, chute basin, and stilling basin. The control structure, auxiliary spillway, chute basin, and stilling basin are currently in construction. The project involves the construction of the approach channel which includes: (1) removing an existing rock dam; (2) constructing a cutoff wall; (3) constructing an access road; (4) constructing a spur dike; (5) constructing a temporary transload facility; ~~and~~ (6) disposing of the excavated material (sand, soil, and rock) from the spur dike construction into the dry Lake bed; (7) removing a cofferdam; (8) rock cleaning; and (9) constructing the drainage ditch. The approximately 1,100-feet long by 1,200-feet wide by 350-feet deep approach channel will extend upstream of a control structure. The project is located off Folsom Lake Crossing, 1.4 miles east of the intersection of Folsom Lake Crossing and Folsom-Auburn Road in Folsom.

Rock Dam Removal

An existing rock dam, which separates the lake and the proposed excavation areas for the existing control structure and auxiliary spillway, will be removed by ripping and blasting the existing material. As the rock dam is removed, the approximately 5-feet wide concrete slabs of the approach channel will be constructed.

Cutoff Wall Construction

A cutoff wall will serve as a temporary dam to keep water out of the approach channel construction area. The cutoff wall will span the entire width of the proposed approach channel. The cutoff wall will consist of a reinforced concrete pile wall with 85-feet long cast-in-place reinforced concrete piles to support the wall. If water enters the approach channel construction area, the project area may be dewatered.

Access Road Construction

A new access road will be constructed east of the rock dam to access the project area. Approximately 40,000 cubic yards of dredged lake soil will be placed beneath approximately 165,000 cubic yards of fill material to construct the access road. Once the access road and cutoff wall are in place, dry excavation of the approach channel will begin.

Spur Dike Construction

A new spur dike, which allows a free even flow of water to enter the approach channel, will be constructed in the lake. Approximately 600,000 cubic yards of rock will be placed into the lake to construct the elliptical shaped dike. The exterior of the spur dike will be comprised of gravel and rip-rap. Materials excavated during the construction of the approach channel may be used in the construction of the spur dike. A silt curtain, or equivalent method, will be used to control turbidity around the spur dike construction site.

Transload Facility Construction

A new 50 feet-wide by 1,500-feet long temporary transload facility will be created to move equipment in and out of the water. The facility will consist of a ramp, crane, crane pad, and a fuel station. Between 30,000 and 230,000 cubic yards of fill will be used to construct the ramp. A silt curtain, or equivalent method, will be used during construction to control turbidity. Additional construction may be required to raise and lower the height of the facility to keep it above the constantly changing elevation of the lake's surface.

Excavated Materials Disposal

Excavated materials will be disposed of at five potential on-site locations. The disposal sites include the spur dike, an in-reservoir site around the transload facility, the Mormon Island Auxiliary Dam (MIAD) disposal site, Dike 7, and Dike 8 (see Figure 1). Both on-

land and in-water disposal sites will be used for the project. Dike 8 and the spur dike will be permanent disposal sites and the Mormon Island Auxiliary Dam and Dike 7 will be temporary disposal sites.

Cofferdam Removal

The cofferdam downstream of the stilling basin will be removed in two separate operations. The first operation is the mass removal of the materials. The second operation is cleaning the previously excavated rock channel of any dirt and debris. The materials will remain on-site and used for site restoration grading, constructing site features, or disposed of on-site. Once the excavation is completed the rock cleaning will commence. The coffer dam removal will be done in dry conditions.

Rock Cleaning

The existing section of rock between the stilling basin and the river will be cleaned by mechanical means and hand tools to avoid using water for cleaning to eliminate the potential of construction water entering the American River. An excavator and vacuum trucks and/or trailers will be used to support cleaning the remaining dirt and debris off of the rock channel. If water is required to clean the rock, the water will be collected to prevent it from entering the American River. The rock wash water will be captured and disposed at an appropriate off-site facility. All of the spoils generated through the cleaning will be hauled off to existing disposal sites within the Project Area.

Drainage Ditch Construction

A drainage ditch from the stilling basin to the river will be constructed to reconnect the stilling basing to the river. The construction of the drainage ditch will require drilling and blasting through rock. To minimize any potential of rock falling into the river, blasts will be designed so that the blasts are as small as possible. In addition, blast mats will be utilized to contain any airborne material and prevent if from falling into the river. After it is blasted, it will be excavated and loaded into haul trucks for disposal on the project site. The ditch will be cleaned using the same operations and processes as the rest of the spillway channel.

Throughout the duration of the cofferdam removal and subsequent channel cleaning, the stilling basin will be utilized as a water retention basin for any stormwater collected on the Project.

Other project activities such as the removal of the coffer dam, rock cleaning, and construction of the batch plant will not impact waters of the United States.

The project will permanently impact 109.5 acres and temporarily impact 100.5 acres of waters of the United States.

2. add Figure 2 as show below.

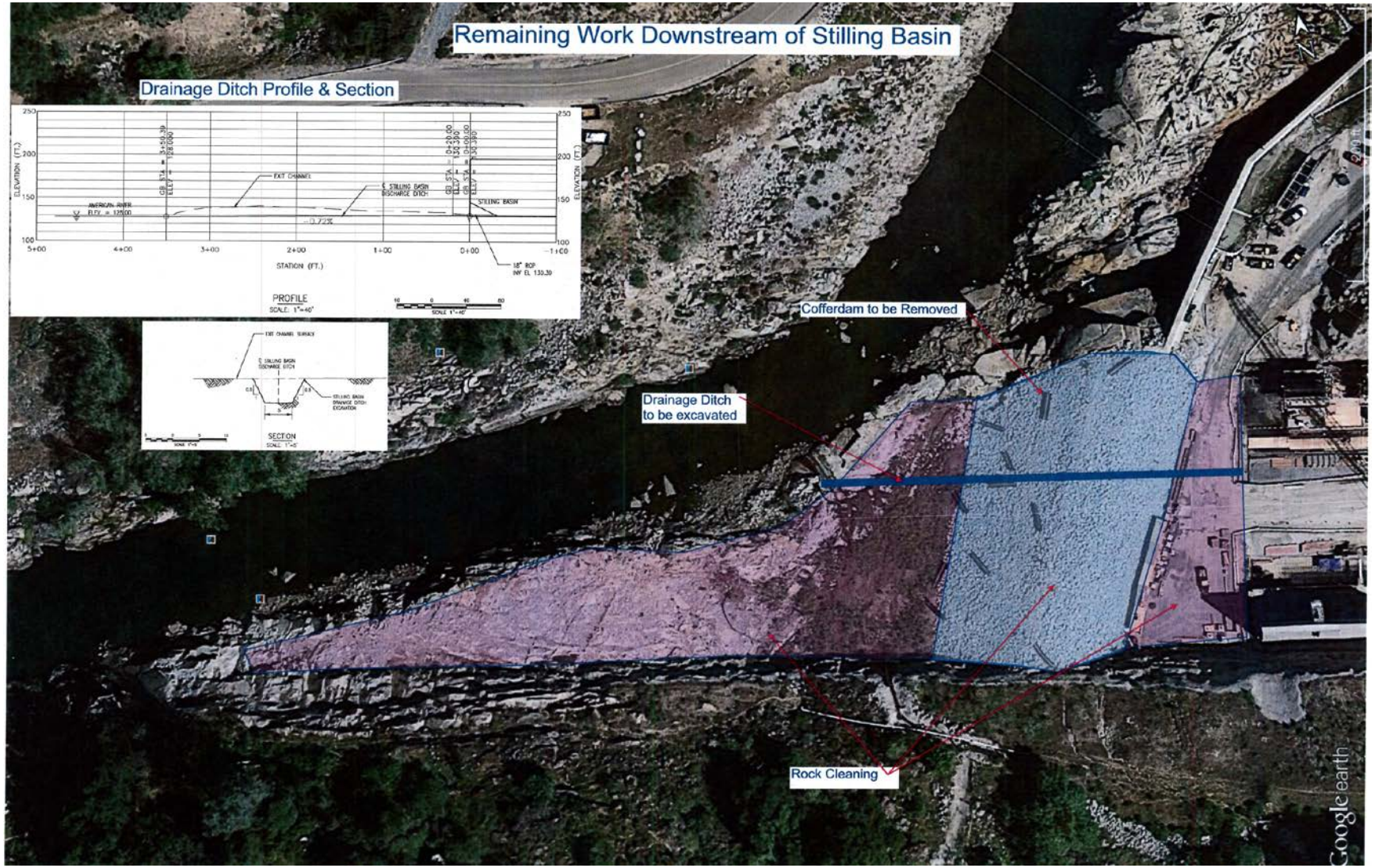

Figure 2- Project Site Map – Downstream Stilling Basin

APPLICATION FEE RECEIVED:

No fees are required for this amendment. Total fees of $59,000.00 for the original Certification were submitted to the Central Valley Regional Water Quality Control Board as required by §3833(b)(3)(A) and by § 2200(a)(3) of the California Code of Regulations.

CENTRAL VALLEY WATER BOARD CONTACT:

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WATER QUALITY CERTIFICATION:

I hereby issue an Order amending the existing Clean Water Act, Section 401 Technically Conditioned Water Quality Certification for the Folsom Dam Modification Project (WDID#5A34CR00573A2). All other conditions and provisions of the reissued Water Quality Certification and any previously approved amendments remain in full force and effect, except as modified based on the conditions of this Order. Failure to comply with the terms and conditions of the original Water Quality Certification, previously approved amendments, or of this Order may result in suspension or revocation of the Water Quality Certification.

Original Signed By Adam Laputz for:

Pamela C. Creedon
Executive Officer

cc: Distribution List, page 6

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