

RECLAMATION

Managing Water in the West

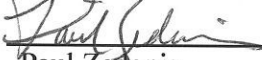
Categorical Exclusion Checklist (CEC)

City of Shasta Lake – Water Treatment Plant – Retaining Wall Replacement Project – Shasta County, California

NCAO-CEC-17-09

Prepared by: See Attachment 1 Date: January 15, 2017
Megan Simon
Northern California Area Office Designee
for Tribal Trust Assets/Natural Resources
Specialist

Concurrence by: See Attachment 2 Date: March 31, 2017
Lex Palmer
Historian
Mid-Pacific Regional Office

Concurrence by:  Date: April 3, 2017
Paul Zedonis
Environmental and Natural Resources
Supervisory Natural Resource Specialist/
Division Manager
Northern California Area Office

Approved by:  Date: 4/3/17
Don Bader
Area Manager
Northern California Area Office



U.S. Department of the Interior
Bureau of Reclamation
Mid Pacific Region

April 2017

Proposed Action

Reclamation will approve the City of Shasta Lake's (City) request to install and maintain a replacement retaining wall that supports a paved parking lot adjacent to the main building of its existing water treatment plant in Shasta County, California. The water treatment plant is located on Reclamation land, southeast of the junction of Lake Boulevard and Shasta Dam Boulevard, approximately 600 feet south of Shasta Lake and 900 feet east of the Shasta Dam Visitor Center (Figure 1). The new retaining wall will replace the existing retaining and will be constructed in approximately the same footprint (Figure 2-A). The Project Area is surrounded by wooded land consisting of black, blue and canyon live oaks, foothill pines and dense shrubs including white-leaf manzanita, buckrush and Western redbud.

The purpose of the action is to replace the existing, failing retaining wall which supports a paved parking area associated with the main building of the water treatment plant. (Both the parking lot and main building are located on higher ground that was not graded to the depth of the access road for the facility during construction.) The current retaining wall is approximately 30 years old and has been repaired several times since its construction.

A backhoe will be used to remove the old retaining wall, and the gravel/boulder mix in the parking area immediately behind the old retaining wall, and dig the excavation for the footings of the new retaining wall. Construction is anticipated to start in May 2017 and last no more than 20 working days. Any excess soil generated during construction activities will be removed by the contractor performing the work and transported off-site for proper disposal in a permitted facility, as applicable. The area between the asphalt parking lot and the retaining wall will be backfilled with the gravel and boulder mix once the retaining wall has been installed and set. The contractor will prepare a best management plan schedule for site controls. Work will be conducted outside of the wet season.

A plan of the Project Area is depicted in Figure 2. Photographs of the action area are provided as Figure 3. The Water Treatment Plant is located in Township 22 North, Range 5 West, Section 15 of the Mount Diablo Baseline & Meridian.

Reclamation engineers reviewed the City's Project plans, prepared by a Professional Engineer, in January of 2017 and agreed that the proposed facility will not compromise existing infrastructure or interfere with current operations at the water treatment facility.

Exclusion Categories

Bureau of Reclamation Categorical Exclusion – 516 DM 14.5, D.1. Maintenance, rehabilitation, and replacement of existing facilities which may involve a minor change in size, location, and/or operation.

Extraordinary Circumstances

Below is an evaluation of the extraordinary circumstances as required in 43 CFR 46.215.

1. This action would have a significant effect on the quality of the human environment (40 CFR 1502.3). No ☒ Uncertain ☐ Yes ☐

- | | | | | | | |
|---|----|-------------------------------------|-----------|--------------------------|-----|--------------------------|
| 2. This action would have highly controversial environmental effects or involve unresolved conflicts concerning alternative uses of available resources (NEPA Section 102(2)(E) and 43 CFR 46.215(c)). | No | <input checked="" type="checkbox"/> | Uncertain | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| 3. This action would have significant impacts on public health or safety (43 CFR 46.215(a)). | No | <input checked="" type="checkbox"/> | Uncertain | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| 4. This action would have significant impacts on such natural resources and unique geographical characteristics as historic or cultural resources; parks, recreation, and refuge lands; wilderness areas; wild or scenic rivers; national natural landmarks; sole or principal drinking water aquifers; prime farmlands; wetlands (EO 11990); flood plains (EO 11988); national monuments; migratory birds; and other ecologically significant or critical areas (43 CFR 46.215 (b)). | No | <input checked="" type="checkbox"/> | Uncertain | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| 5. This action would have highly uncertain and potentially significant environmental effects or involve unique or unknown environmental risks (43 CFR 46.215(d)). | No | <input checked="" type="checkbox"/> | Uncertain | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| 6. This action would establish a precedent for future action or represent a decision in principle about future actions with potentially significant environmental effects (43 CFR 46.215 (e)). | No | <input checked="" type="checkbox"/> | Uncertain | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| 7. This action would have a direct relationship to other actions with individually insignificant but cumulatively significant environmental effects (43 CFR 46.215 (f)). | No | <input checked="" type="checkbox"/> | Uncertain | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| 8. This action would have significant impacts on properties listed, or eligible for listing, on the National Register of Historic Places as determined by Reclamation (LND 02-01; and 43 CFR 46.215 (g)). | No | <input checked="" type="checkbox"/> | Uncertain | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| 9. This action would have significant impacts on species listed, or proposed to be listed, on the List of Endangered or Threatened Species, or have significant impacts on designated critical habitat for these species (43 CFR 46.215 (h)). | No | <input checked="" type="checkbox"/> | Uncertain | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| 10. This action would violate a Federal, Tribal, State, or local law or requirement imposed for protection of the | No | <input checked="" type="checkbox"/> | Uncertain | <input type="checkbox"/> | Yes | <input type="checkbox"/> |

environment (43 CFR 46.215 (i)).

11. This action would affect ITAs (512 DM 2, Policy Memorandum dated December 15, 1993). No ☒ Uncertain ☐ Yes ☐
12. This action would have a disproportionately high and adverse effect on low income or minority populations (EO 12898; and 43 CFR 46.215 (j)). No ☒ Uncertain ☐ Yes ☐
13. This action would limit access to, and ceremonial use of, Indian sacred sites on Federal lands by Indian religious practitioners or significantly adversely affect the physical integrity of such sacred sites (EO 13007; 43 CFR 46.215 (k); and 512 DM 3). No ☒ Uncertain ☐ Yes ☐
14. This action would contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area or actions that may promote the introduction, growth, or expansion of the range of such species (Federal Noxious Weed Control Act; EO 13112; and 43 CFR 46.215 (l)). No ☒ Uncertain ☐ Yes ☐

NEPA Action Recommended

☒ CEC – This action is covered by the exclusion category and no extraordinary circumstances exist. The action is excluded from further documentation in an EA or EIS.

☐ Further environmental review is required, and the following document should be prepared.

☐ EA

☐ EIS

Environmental commitments, explanations, and/or remarks:

Regional Historian concurred with Item 8 (email attached). ITA Designee concurred with Item 11 (email attached).

Reclamation reviewed the US Fish & Wildlife Service's Environmental Conservation Online System (ECOS) database, via the Information for Planning and Conservation (IPaC) application, to determine the potential for species Federally-listed as Threatened or Endangered, or Candidate species for listing, under the Federal Endangered Species Act or their habitats to occur at the site. The IPaC reported generated for the site returned a list of 13 Federally-listed or Candidate species, none of which were reported as having Critical Habitat in the project area: the California red-legged frog (*Rana draytonii*), Conservancy fairy shrimp (*Branchinecta conservatio*), vernal pool fairy shrimp (*Branchinecta lynchi*), vernal pool tadpole shrimp (*Lepidurus packardii*), Delta smelt (*Hypomesus transpacificus*), Longfin smelt (*Spirinchus thaleichthys*), fisher (*Martes*

pennanti), gray wolf (*Canis lupus*), Northern spotted owl (*Strix occidentalis caurina*), yellow-billed cuckoo (*Coccyzus americanus*), Valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*), Hoover's spurge (*Chamaesyce hooveri*) and slender orcutt grass (*Orcuttia tenuis*). Reclamation also queried the California Native Diversity Database (CNDDDB) for Federally-listed and Candidate species. The CNDDDB query produced reportings of additional Federally-protected species in Shasta County: Central Valley steelhead (*Oncorhynchus mykiss irideus*), Central Valley spring and winter-run salmon (*Oncorhynchus tshawytscha*), bull trout (*Salvelinus confluentus*), Shasta crayfish (*Pacifastacus fortis*), California wolverine (*Gulo gulo*) and Sierra Nevada red fox (*Vulpes vulpes necator*).

Reclamation used the Biogeographic Information and Observation System (BIOS) map viewer complement to the CNDDDB to refine the information obtained from the CNDDDB and IPaC report. The BIOS query produced no reported occurrences of any Federally-listed species within a mile of the project site. Habitat requirements of the majority of the listed species involve wetlands, waterways, vernal pools or poorly-drained features that function as vernal pools, which are absent from the site, including habitat for: California red-legged frog, Conservancy fairy shrimp, vernal pool fairy shrimp, vernal pool tadpole shrimp, Delta smelt, longfin smelt, Central Valley steelhead, bull trout, Central Valley spring and winter-run salmon, Shasta crayfish, Hoover's spurge and slender orcutt grass.

No elderberry trees or shrubs were reported on-site. Therefore, habitat for the Valley elderberry longhorn beetle is assumed absent. Project activities would not remove or disturb trees with nests. Therefore, no impacts to migratory birds are anticipated. Likewise, activities would not alter contiguous forest cover. Therefore, species dependent on continuous forest habitat (Northern spotted owl and fisher) would not be impacted by project activities. The construction and staging areas were previously disturbed and developed. Any noise or other disturbance of potential habitat for other avian and terrestrial species (gray wolf, California wolverine, Sierra Nevada red fox) in the surrounding area is considered short term and temporary.

Reclamation concluded that the area to be used for this action does not provide habitat for any species Federally-listed as Threatened or Endangered.



Figure 1. Vicinity Map courtesy Quercus Consultants, Inc. 2015.

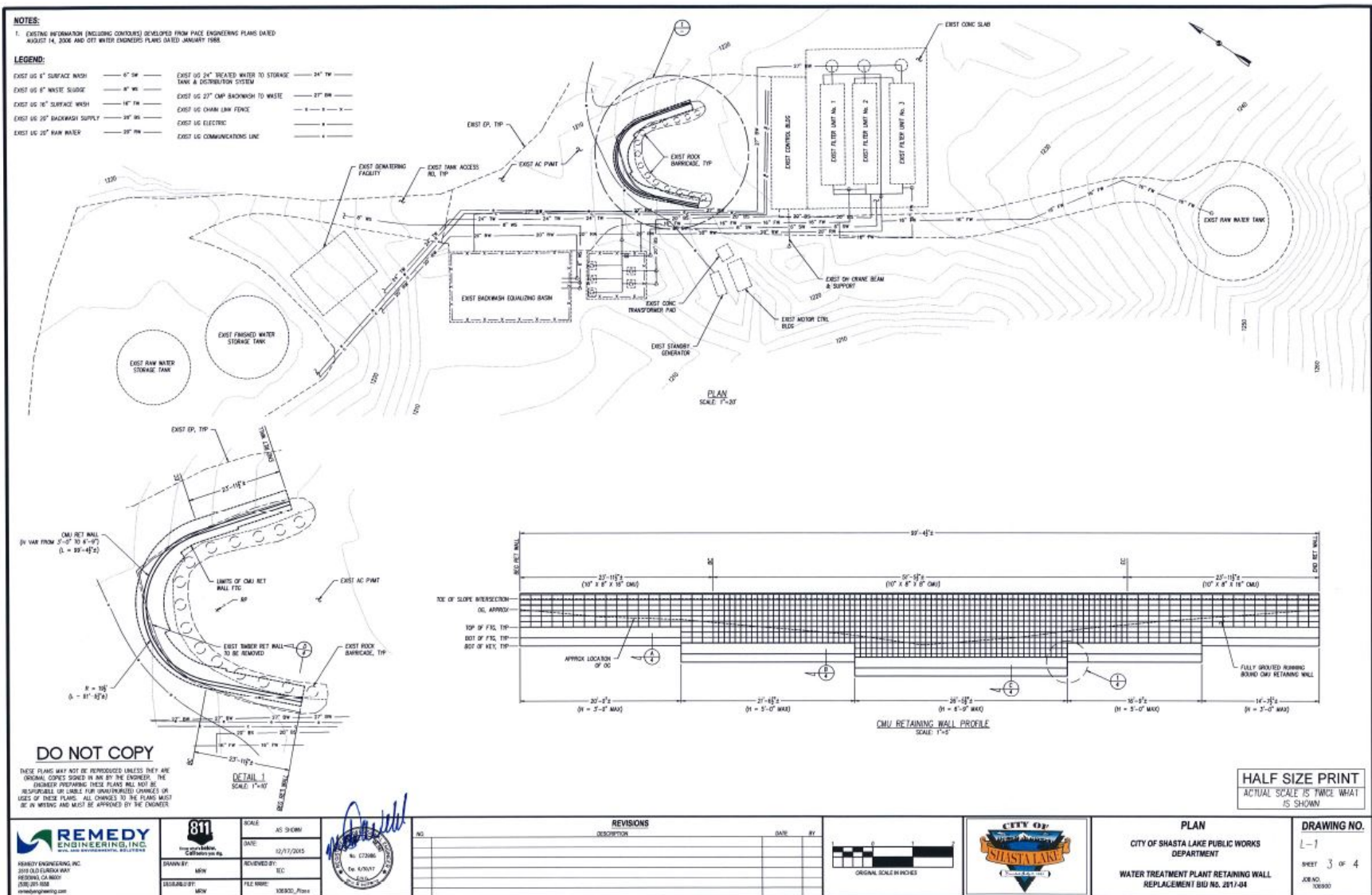


Figure 2A. Plan view depicting proposed facilities and elevations, courtesy City of Shasta Lake Public Works.

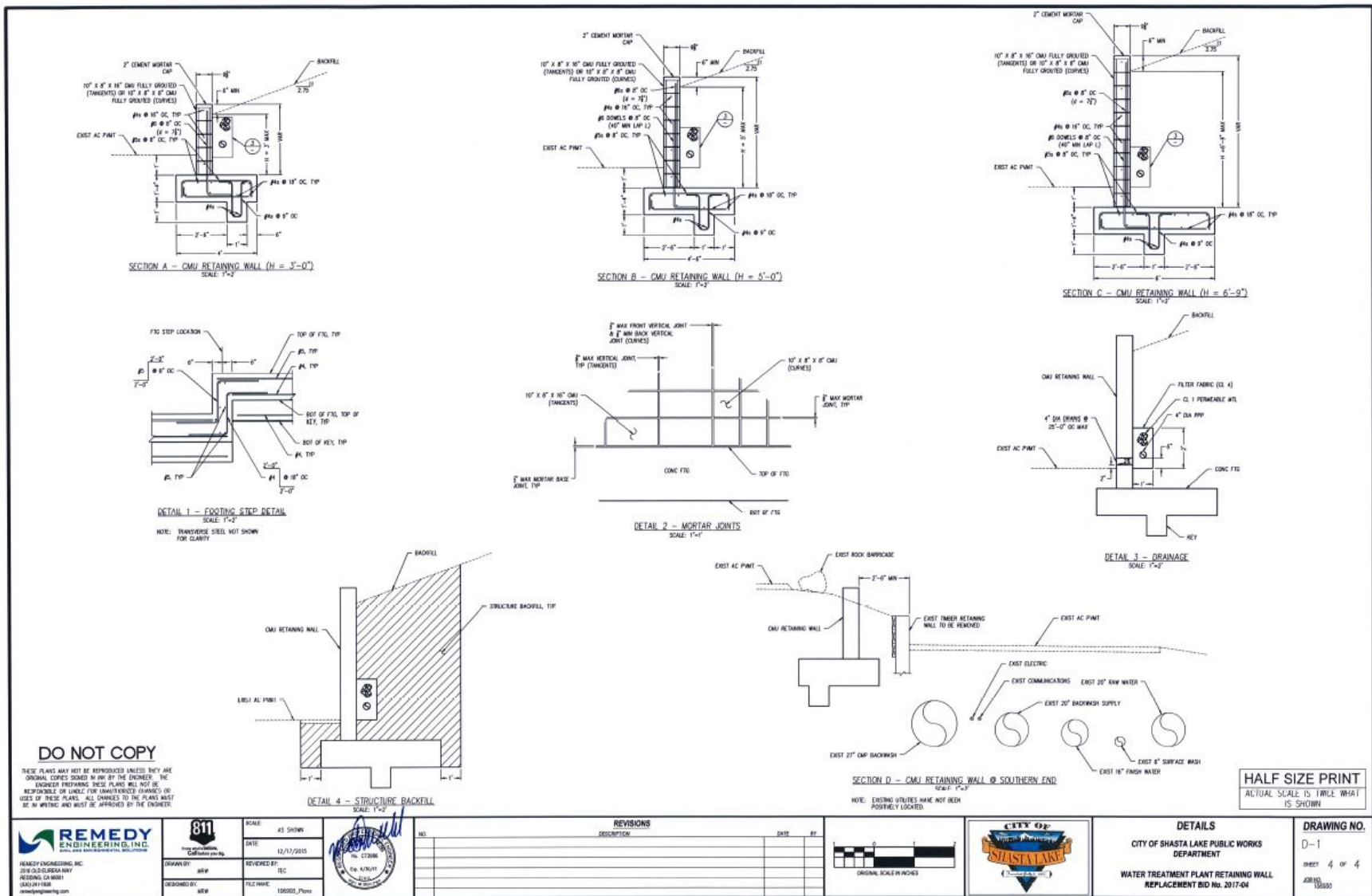


Figure 3B. Plan details, courtesy City of Shasta Lake Public Works.



Figure 4A. Photograph of the existing retaining wall to south and failures.



Figure 3B. Photograph of the parking lot surface behind the retaining wall to north and gravel and boulder mix to be removed prior to installation of the new retaining wall.

Attachment 1. Indian Trust Assets Review

ITA Review - Fisherman's Pt Water Treatment Facility - Replacement Retaining Wall

Simon, Megan <msimon@usbr.gov>
To: "Zedonis, Paul" <pzedonis@usbr.gov>

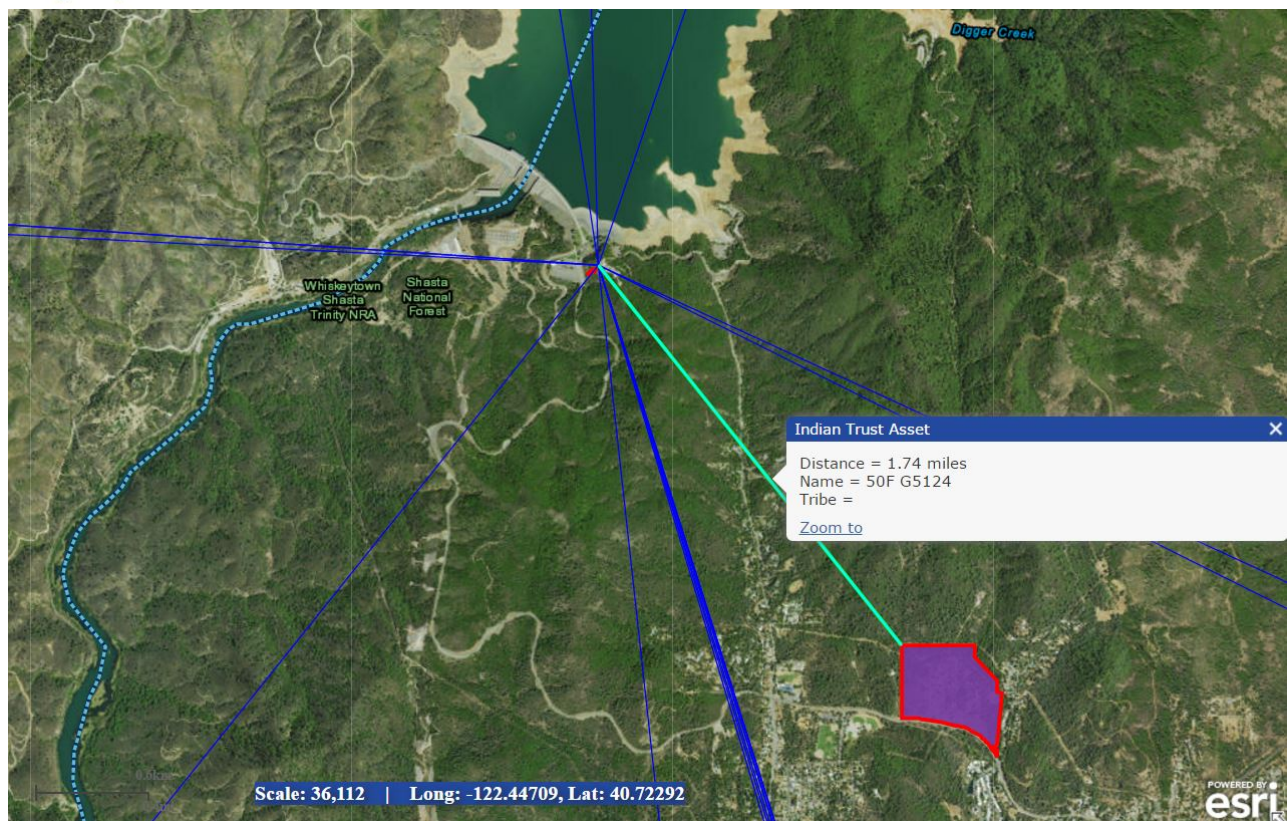
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I have examined the referenced proposal and have determined that the facility is at least 1.7 miles from the closest Indian Trust Asset.

I have determined that there is no likelihood that this action will adversely impact Indian Trust Assets.

Megan K. Simon

Natural Resources Specialist
U.S. Bureau of Reclamation
Northern California Area Office
16349 Shasta Dam Blvd.
Shasta Lake, CA 96019
(530) 276-2045
msimon@usbr.gov



Attachment 2. Cultural Resources Review

CULTURAL RESOURCES COMPLIANCE
Division of Environmental Affairs
Cultural Resources Branch (MP-153)

MP-153 Tracking Number: 15-NCAO-246.001

Project Name: City of Lake Shasta Residuals Dewatering Water Treatment Facility Project,
Shasta County, California (15-NCAO-246.001)

NEPA Contact: Megan Simon, Natural Resource Specialist

MP 153 Cultural Resources Reviewer: Lex Palmer, Historian

Date: March 31, 2017

The Bureau of Reclamation (Reclamation) re-initiated consultation under Title 54 USC § 306108, commonly known as Section 106 of the NHPA, and its implementing regulations found at 36 CFR Part 800, for new actions associated with the City of Lake Shasta Residuals Dewatering Water Treatment Facility Project located on Reclamation lands in Shasta County, California. In addition to the project activities on which Reclamation previously consulted with the State Historic Preservation Officer, the City also proposed to remove an existing modern timber retaining wall and replace it with a horseshoe-shaped concrete masonry unit retaining wall.

Based on historic properties identification efforts conducted by Quercus Consultants, Inc., Reclamation consulted with, and received concurrence from, the State Historic Preservation Officer (SHPO) on a finding of no historic properties affected pursuant to 36 CFR §800.4(d)(1). Consultation correspondence between Reclamation and the SHPO has been provided with this cultural resources compliance document for inclusion in the administrative record for this action.

This document serves as notification that Section 106 compliance has been completed for this undertaking. Please note that if project activities subsequently change, additional NHPA Section 106 review, including further consultation with the SHPO, may be required.

Attachment:

Letter: SHPO to Reclamation dated March 30, 2017

Attachment 2, Cont.

**OFFICE OF HISTORIC PRESERVATION
DEPARTMENT OF PARKS AND RECREATION**

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calshpo@parks.ca.gov
www.ohp.parks.ca.gov



March 30, 2017

In reply refer to: BUR_2015_1026_001

Ms. Anastasia T. Leigh, Regional Environmental Officer
U.S. Bureau of Reclamation, Mid-Pacific Regional Office
2800 Cottage Way, Sacramento, CA 95825-1898

Subject: Section 106 Consultation for the Proposed City of Lake Shasta (City) Residuals
Dewatering Water Treatment Facility Project, Shasta County, California
(15-NCAO-246.001)

Dear Ms. Leigh:

The Office of Historic Preservation (OHP) received on March 06, 2017 your letter initiating consultation on the above referenced undertaking under Section 106 of the NHPA (as amended), and its implementing regulations found at 36 CFR Part 800. The City has received Community Development Block Grant funding through the California Housing and Community Development Department to install a dewatering facility at the City of Lake Shasta Water Treatment Plant, which is located on Reclamation-owned lands. Reclamation has previously consulted for a finding of no historic properties affected for approving the construction activities, receiving OHP concurrence (October 20, 2015 and November 24, 2015: Enclosure 2). Changes in proposed project activities have occurred since then.

Reclamation determined that authorizing the additional proposed activities is an undertaking as defined in 36 CFR § 800.16(y). As the new work involves a type of activity that has a potential to cause effects to historic properties under 36 CFR § 800.3(a), Reclamation is reentering consultation and making notification for a no historic properties affected finding for the new work. Documents included with the submittal are:

- *Enclosure 1: Figure 1: Project Location Map; Figure 2: Location Map and Retaining Wall Replacement Plans, Existing Wall; Figure 3: New Wall Detail*
- *Enclosure 2: NHPA Section 106 Correspondence*
- *Enclosure 3: Archaeological Survey Report City of Shasta Lake Water Treatment Plant Dewatering Centrifuge Project, Project Number 15-NCAO-246 Shasta County, California (By: Quercus Consultants, Inc., Redding, CA; September 2015) [Prepared For: City of Shasta Lake, Shasta Lake, CA 96019]*

The original project description includes all project-related construction activities involved in building a new structure to house new centrifugal solids dewatering equipment, and the placement of associated underground utilities at the existing City of Lake Shasta Water Treatment Plant. In addition to completing that work scope, the City now also proposes to remove an existing modern timber retaining wall and replace it with a horseshoe-shaped concrete masonry unit retaining wall (Enclosure 1: Figures 2 and 3). The new wall will be 196 feet long, 10 inches wide, and vary from 3 to 6 feet 9 inches high. Footing excavations

Attachment 2, Cont.

Ms. Anastasia T. Leigh
March 30, 2017
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will be 2 feet 4 inches deep and the soil to be excavated appears to be fill from when the hillside was leveled to accommodate the existing water tanks.

Reclamation has determined that the area of potential effects (APE) is approximately 0.75 acres located within the boundaries of the water treatment plant. The vertical APE will reach a maximum depth of 15 feet below existing grade. Given that the proposed project will be conducted in the previously disturbed water plant area it is considered that there is a low probability to encounter intact subsurface resources during construction.

As no new activity has occurred in the APE since the 2015 historic properties identification efforts, related to this project, were conducted by Quercus Consultants, Inc., Reclamation believes that those efforts are sufficient for the additional work. No historic properties were identified in the APE during the records search or intensive pedestrian survey of 2015.

Reclamation has determined that consultation with Indian tribes is not necessary for this undertaking because the APE is within previously disturbed, engineered fill from initial construction of the water treatment facility, which occurred in 1982 and the APE is shielded by surrounding vegetation. Due to a lack of potential for direct or indirect effects to properties of religious or cultural significance, Reclamation did not pursue efforts for Native American input on potential project effects.

Reclamation reviewed the Quercus 2015 report and added a requirement that a clause be included as a condition of project implementation (pp. 15-16):

- *Although the likelihood of discovering intact buried cultural resources is considered low (i.e., the APE is exclusively within previously disturbed soils, and on a steep previously graded slope), there is a small chance that buried resources may still be encountered inadvertently during construction.*
- *In the unlikely event that archaeological discoveries (e.g., culturally modified lithic materials, structural features, or historic artifacts) are encountered during ground-disturbing activities, all such activities within a 100-foot radius of the discovery shall cease, and the following persons shall be contacted immediately:*

Laureen M. Perry
Regional Archaeologist
Bureau of Reclamation
Phone: 916-978-5028

Carla Thompson
Development Services Director
City of Shasta Lake
Phone: 530-275-7460

- *Reclamation (or its designee) shall determine the nature of the find, evaluate its significance, and, as necessary, develop preservation or mitigation measures in consultation with the State Office of Historic Preservation.*
- *If potential human remains are discovered during any project activity, the procedures identified in the Native American Graves Protection and Repatriation Act (NAGPRA) shall be closely adhered to and the following steps shall be taken:*
 - *All activities that may further disturb the potential human remains shall cease*

Attachment 2, Cont.

Ms. Anastasia T. Leigh
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immediately in the vicinity of the discovery, and the Reclamation contact listed above shall be contacted immediately. Reclamation shall take appropriate steps to secure and protect human remains and any funerary objects from further disturbance.

- *Reclamation (or its designee) shall notify the Shasta County Coroner's Office (530-225-5551) at the earliest opportunity, followed within three days by written confirmation.*
- *Human remains or associated funerary objects shall not be excavated or otherwise removed unless a permit is issued under the Archaeological Resources Protection Act and after consultation between the appropriate Native American representative(s) and Reclamation.*
- *The activity that resulted in the inadvertent discovery shall not resume until clearance is provided by Reclamation.*

Based on the information discussed above and in the enclosed report, Reclamation has reached a finding of no historic properties affected for the overall combined proposed undertaking and requests comments on the delineation of the APE and the appropriateness of the historic properties identification efforts and requests concurrence with its finding of no historic properties affected pursuant to 36 CFR § 800.4(d)(l).

After OHP staff review of the documentation, the following comments are offered:

- Pursuant to 36 CFR 800.4(a)(1), there are no objections to the APE as defined;
- Pursuant to 36 CFR 800.4(b), Reclamation has documented a reasonable and good faith effort to identify historic properties within the area of potential effects.
- I agree that Reclamation's required clause, as described above and in the Quercus Report (2015: pp. 15-16), should be included as a condition of project implementation.
- Reclamation has determined that the proposed undertaking will result in no historic properties affected. Pursuant to 36 CFR 800.4(d)(1), **I do not object.**

Please be advised that under certain circumstances, such as unanticipated discovery or a change in project description, Reclamation may have additional future responsibilities for this undertaking under 36 CFR Part 800 (as amended). Should you require further information, please contact Jeanette Schulz at Jeanette.Schulz@parks.ca.gov or desk phone (916) 445-7031.

Sincerely,



Julianne Polanco
State Historic Preservation Officer

**OFFICE OF HISTORIC PRESERVATION
DEPARTMENT OF PARKS AND RECREATION**

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November 24, 2015

In reply refer to: BUR_2015_1026_001

Ms. Anastasia T. Leigh
Regional Environmental Officer
Bureau of Reclamation
Mid-Pacific Regional Office
2800 Cottage Way
Sacramento, CA 95825-1898

Re: National Historic Preservation Act (NHPA) Section 106 Consultation for the Proposed City of Lake Shasta Residuals Dewatering Water Treatment Facility Project, Shasta County, California (15-NCAO-246)

Dear Ms. Leigh:

Thank you for your letter dated October 20, 2015, requesting my review and comment with regard to the above-referenced project. The Bureau of Reclamation (Reclamation) is consulting with me pursuant to Section 106 of the National Historic Preservation Act and its implementing regulations found at 36 CFR Part 800 (as amended 8-05-04). Reclamation proposes to authorize the construction of a dewatering facility at the City of Lake Shasta Water Treatment Plant, located on Reclamation lands. Along with your consultation letter, you also provided the following document:

- *Archaeological Survey Report, City of Shasta Lake Water Treatment Plant Dewatering Centrifuge Project, Shasta County, California* (Quercus, September 2015).

Reclamation has determined that the area of potential effects (APE) for this undertaking is approximately 0.75 acres within the boundaries of the City of Lake Shasta Water Treatment Plant and includes all project-related construction activities including construction of a new structure to house centrifugal solids dewatering equipment, and placement of associated underground utilities. The vertical APE will reach a maximum depth of 15 feet below existing grade.

Your letter and attached technical report document Reclamation's efforts to identify historic properties in the APE. These efforts included a records search, and a cultural resources survey conducted by Quercus Consultants, Inc (Consultant). No historic properties were identified through these identification efforts and, pursuant to 36 CFR 800.4(d)(1), Reclamation is seeking my concurrence with their finding that the proposed undertaking will result in no historic properties affected. After reviewing your submission I have the following comments:

- Pursuant to 36 CFR 800.4(a)(1), I have no objections to the APE as defined.
- Pursuant to 36 CFR 800.4(d)(1)(i), **I do not object with your finding of no historic properties affected for this undertaking.**

Thank you for seeking my comments and considering historic properties as part of your project planning. Be advised that under certain circumstances, such as unanticipated discovery or a change in project description, Reclamation may have additional future responsibilities for this undertaking under 36 CFR Part 800. If you have any questions, please contact Patrick Riordan of my staff at (916) 445-7017 or Patrick.Riordan@parks.ca.gov.

Sincerely,



Julianne Polanco
State Historic Preservation Officer