

RECLAMATION

Managing Water in the West

FINDING OF NO SIGNIFICANT IMPACT (FONSI)

Dunnigan Water District, Supervisory Control and Data Acquisition Program

FONSI 13-09

Recommended by:



Paul Zedonis
Natural Resource Specialist
Northern California Area Office

Date:

9/23/13

Concurred by:



Jake Berens
Water Conservation Specialist
Northern California Area Office

Date:

9/23/13

Concurred by:



Don Reck
Supv. Natural Resource Specialist
Northern California Area Office

Date:

9/25/13

Approved by:



for Brian Person
Area Manager
Northern California Area Office

Date:

9/25/13



U.S. Department of the Interior
Bureau of Reclamation
Northern California Area Office
Mid-Pacific Region

September 2013

Introduction

In accordance with section 102(2)(c) of the National Environmental Policy Act (NEPA) of 1969, as amended, the Northern California Area Office (NCAO) of the Bureau of Reclamation has prepared an Environmental Assessment (EA) for the *Dunnigan Water District, Supervisory Control and Data Acquisition Project*, dated September 2013.

The EA has been prepared to examine the potential direct, indirect, and cumulative impacts to the affected environment associated with providing Federal grant funding to the Dunnigan Water District (District), Yolo County, California, for a Water Use Efficiency Grant as part of the Bay-Delta Restoration Program. The grant funding would be used to financially assist the District with the installation of Supervisory Control and Data Acquisition (SCADA) equipment at three District diversion sites along the Tehama-Colusa Canal and a master SCADA system at the District Office.

The purpose of the project is to automate both data acquisition and controls to allow a much greater level of control of power and water efficiency in the operation of the District pumps and delivery of the District water than presently exist. Implementation of this project would enhance control of water deliveries to decrease any excess and unnecessary water usage and deliver only water that is needed.

Findings

In accordance with the NEPA, Reclamation has found that the Proposed Project is not a major federal action that would significantly affect the quality of the human environment, and therefore an environmental impact statement is not required. Effects on several environmental resources were evaluated and found to be absent or minor. Following are the reasons why the impacts of the Proposed Action are not significant:

1. There will be no change to land use.
2. The Proposed Action will not affect biological resources. No ground disturbing activities would occur and equipment installations would occur on existing infrastructure that routinely occupied by humans. Accordingly, no direct or indirect effects to biological resources are anticipated. Additionally, the Proposed Action would result in minor improvements to water efficiency, but this is not expected to change land use practices nor any potential habitat of any sensitive species.
3. The Proposed Action will not impact Indian Trust Assets (ITA).
4. The Proposed Action will not limit access to and ceremonial uses of Indian sacred sites on Federal lands by Indian religious practitioners, or adversely affect the physical integrity of such sacred sites. There would be no impacts to Indian sacred sites as a result of the Proposed Action.

5. The Proposed Action has no potential to affect historic properties
6. No significant changes in agricultural communities or practices will result from this Proposed Project. Accordingly, there would be no impacts on low-income or minority individuals.
7. The Proposed Project will not disproportionately affect low-income or minority individuals communities within the project area.
8. There are no known past, present, and reasonably foreseeable future actions that will cumulatively result in significant impacts to the human environment when taking into consideration the actions analyzed within this EA

RECLAMATION

Managing Water in the West

Environmental Assessment

Dunnigan Water District, Supervisory Control and Data Acquisition Project

EA 13-09 - NCAO



**U.S. Department of the Interior
Bureau of Reclamation
Mid-Pacific Region
Northern California Area Office**

September 2013

Mission Statements

The mission of the Department of the Interior is to protect and provide access to our Nation's natural and cultural heritage and honor our trust responsibilities to Indian Tribes and our commitment to island communities.

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.

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Section 1 Introduction

This Environmental Assessment (EA) has been prepared by the Bureau of Reclamation to examine the potential direct, indirect, and cumulative impacts to the affected environment associated with providing Federal grant funding to the Dunnigan Water District (District), Yolo County, California, for a Water Use Efficiency Grant as part of the Bay-Delta Restoration Program. The grant funding would be used to financially assist the District with the installation of Supervisory Control and Data Acquisition (SCADA) equipment at three District diversion sites along the Tehama-Colusa Canal and a master SCADA system at the District Office.

1.1 Need for the Proposal

Presently, the District operates their distribution system with modified manual controls that result in uncontrolled spill that reduce the efficient of water use. This project is to automate both data acquisition and controls to allow a much greater level of control of power and water efficiency in the operation of the District pumps and delivery of the District water than presently exist. Implementation of this project would enhance control of water deliveries to decrease any excess and unnecessary water usage and deliver only water that is needed.

Section 2 Proposed Action and Alternatives

This EA considers two possible actions: the No Action Alternative and the Proposed Action. The No Action Alternative reflects future conditions without the Proposed Action and serves as a basis for comparison for determining potential effects to the human environment.

2.1 No Action Alternative

Reclamation would not award the District with a grant, and the District would continue to operate and maintain their water distribution system under existing conditions.

2.2 Proposed Action Alternative

Reclamation proposes to award a CALFED Water Use Efficiency grant to fund about 50 percent of the cost associated with installation of SCADA equipment to update and improve operations for the District at several locations (Figure 2-1). Specifically, this project will automate both data and controls to allow a much greater level of control of power and water efficiency in the operation of the District pumps and delivery of the District water. The projected annual water savings from implementing this action is 250 acre-feet.

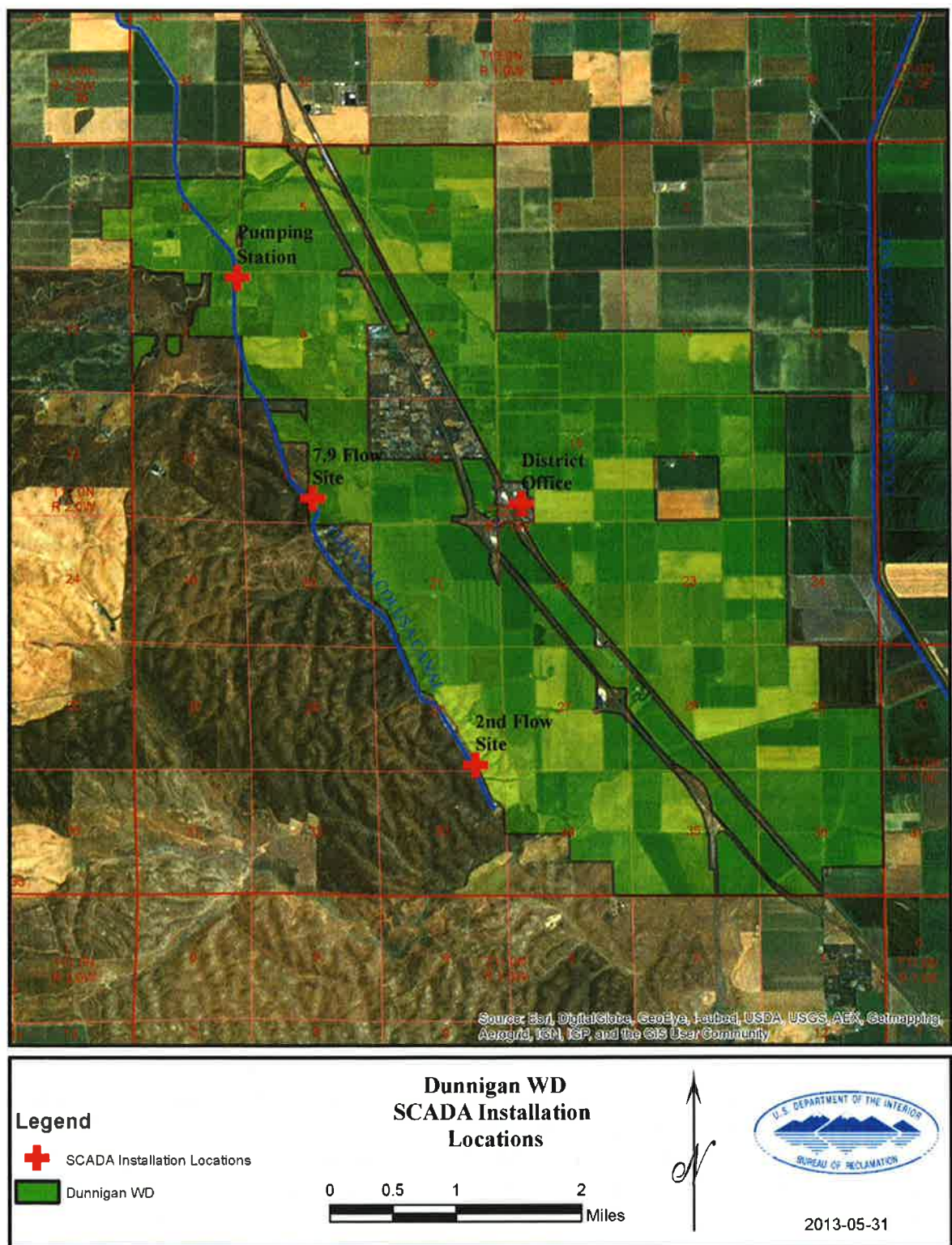


Figure 2-1. Dunnigan Water District and proposed SCADA installation locations.

The Proposed Action includes the installation of SCADA equipment at three district diversion sites along the Tehama-Colusa Canal and a master SCADA system at the District Office (Table 2-1). The system will be compatible with portable handheld data devices. Spread spectrum radio will provide real time communication of both the operational status of pumps, flows, water levels, and pressures data and the remote monitoring and control of power, pump and flow operations

Table 2-1. Installation Locations for SCADA Equipment

Site Identification	Location		
	Township, Range, Section	Coordinates	
		Latitude	Longitude
Diversion: Pump Station	T12N, R1W, S 7	38°54'36.642"N	122°0'32.233"W
Diversion: 7.9 Flow Site	T12N, R1W, S 17	38°53'4.916"N	121°59'53.328"W
Diversion: 2 nd Flow Site	T12N, R1W, S 28	38°51'13.342"N	121°58'28.497"W
District Office	T12N, R1W, S15	38°53'1.647"N	121°58'2.282"W

Installations of SCADA equipment at all three diversions (Pumping Station, 7.9 Flow Station and 2nd Flow Station) and the District Office station will use existing infrastructure to mount equipment. In addition, surface-mounted batteries will be used as the power supply for this equipment.

Specifically, SCADA panels will be attached to back of the Flow Meter Panel at each of the diversion locations, as shown in Figure 2-2. Each flow meter will be interfaced with an MIM module that allows the District to access information from the flow meter. The radio antennae would be mounted to the side of the Reclamation-owned District Office building (Figure 2-2) with a temporary mounting system. Installations would occur between September 1, 2013, and March 31, 2014.



Figure 2-2. Flow meter panels (A) where SCADA panels would be attached, and the District Office building (B) where the antennae would be attached.

Section 3 Affected Environment and Environmental Consequences

This section identifies the potentially affected environmental resources and the environmental consequences of implementing the No Action and Proposed Action Alternatives.

Impacts to the following resources were considered and found to be minor. Brief explanations for their impacts are provided below.

- Land Use: there would be no change to land use.
- Indian Sacred Sites: There are no identified Indian Sacred Sites within the action area of the Proposed Action and therefore, this project would not inhibit use or access to Indian sacred sites.
- Indian Trust Assets (ITA): The Proposed Action does not have the potential to affect ITA (See Attachment 1).
- Environmental Justice: There are no economically disadvantaged or minority populations that would be disproportionately affected by the Proposed Action.

3.1 No Action

Under the No Action Alternative, there would be no change to existing conditions and current trends of the affected environment.

3.2 Proposed Action

3.2.1 Special Status Biological Resources

Under the Proposed Action, there would be no ground disturbing activities, and therefore there would be no affect to potential habitat of sensitive species including the California tiger salamander, giant garter snake, or the Palmated Bird's beak. Additionally, the equipment would be installed on existing infrastructure that is routinely occupied by humans so that no indirect effect to these species, or others, would be anticipated.

Under the Proposed Action, there would be minor changes to water efficiency, but this is not expected to change land use practices and therefore potential habitat of these or other species.

3.3 Cumulative Impacts

There are no other known past, present, and reasonably foreseeable future actions that would cumulatively result in significant impacts to the human environment when taking into consideration the actions analyzed within this EA.

Section 4 Consultation and Coordination

4.1 Endangered Species Act (ESA) (16 USC § 1531 et seq.)

Section 7 of the ESA Act requires Federal agencies to ensure that discretionary Federal actions do not jeopardize the continued existence of special status species or result in the destruction or adverse modification of the critical habitat of these species.

Because there are no ground-disturbing or construction activities that could impact critical habitat or impacts to water resources that could impact special status species, there would be no effect to ESA-listed species. As a consequence, Reclamation has determined consultation is not necessary.

4.2 National Historic Preservation Act (NHPA) (16 USC§ 470 et seq.)

The NHPA of 1966, as amended (16 U.S.C. 470 et seq.), requires that Federal agencies give the Advisory Council on Historic Preservation an opportunity to comment on the effects of an undertaking on historical properties, properties that are eligible for inclusion in the National Register. The 36 CFR Part 800 regulations implement Section 105 of the NHPA.

Section 106 of the NHPA requires Federal agencies to consider the effects of Federal undertakings on historic properties, properties determined eligible for inclusion in the National Register. Compliance with Section 106 follows a series of steps that are designed to identify interested parties, determine the Area of Potential Effect (APE), conduct cultural resource inventories, determine if historic properties are present within the APE, and assess effects on any identified historic properties. The activities associated with the Proposed Action would include no new ground disturbance, no change in land use, or the use of existing conveyance infrastructure. Reclamation has determined that there would be no potential to affect historic properties by the Proposed Action pursuant to 36 CFR 800.3(a)(1) (See Attachment 2).

Section 5 Preparers and Reviewers

Paul Zedonis, Natural Resource Specialist, NC-312

Jake Berens, Repayment Specialist, NC-446

Don Reck, Supervisory Natural Resource Specialist, NC-300

BranDee Bruce, Architectural Historian, MP-153
Patricia Rivera, ITA Specialist, MP-400

Attachment 1 Concurrence of no effect to ITAs.



CR & ITA Review: CEC - Dunnigan Water District SCADA Grant - 07/11/13

RIVERA, PATRICIA <privera@usbr.gov>

Thu, Jul 11, 2013 at 4:08 PM

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

Cc: Kristi Seabrook <kseabrook@usbr.gov>, Mary Williams <marywilliams@usbr.gov>

Paul,

I reviewed the proposed action to award a CALFED Water Use Efficiency grant (FOA #R13AF20004) to fund about 50% of the cost of the Supervisory Control and Data Acquisition (SCADA) equipment purchase and installation to update and improve operations for the Dunnigan Water District (District), Yolo County, California.

The proposed action does not have a potential to impact Indian Trust Assets.

Patricia Rivera
Native American Affairs Program Manager
US Bureau of Reclamation
Mid-Pacific Region
2800 Sacramento, California 95825
(916) 978-5194

Attachment 2



IN REPLY
REFER TO:
MP-153
ENV-3.00

United States Department of the Interior

BUREAU OF RECLAMATION
Mid-Pacific Regional Office
2800 Cottage Way
Sacramento, California 95825-1898

VIA ELECTRONIC MAIL ONLY

September 5, 2013
MEMORANDUM

To: Paul Zedonis
Natural Resource Specialist – Northern California Area Office

From: BranDee Bruce /S/
Architectural Historian – Division of Environmental Affairs

Subject: CALFED Water Use Efficiency Grant for the Dunnigan Water District (District) Supervisory Control and Data Acquisition (SCADA) Project (13-NCAO-218, EA #13-09-NCAO)

The proposed undertaking by Reclamation to issue a CALFED Water Use Efficiency Grant to the District to install a SCADA system on their distribution system, in Yolo County, California is the type of undertaking that does not have the potential to cause effects to historic properties, should such properties be present, pursuant to the NHPA Section 106 regulations codified at 36 CFR § 800.3(a)(1). Reclamation has no further obligations under NHPA Section 106, pursuant to 36 CFR § 800.3(a)(1).

The proposed action includes automation of data controls to allow a much greater level of control of power and water efficiency in the operation of the District pumps and delivery of the water. The project will mount or install SCADA equipment at 3 District diversion sites along the Tehama Colusa Canal (Pumping Station, 7.9 Flow Station and 2nd Flow Station) on existing infrastructure and a master SCADA system at the District Office. No ground disturbance will occur.

After reviewing the materials provided for the Section 106 determination of effect for this undertaking, I concur with a statement in EA-13-09-NCAO, dated August 2013, that neither the Proposed Action nor the No Action Alternative would have significant impacts on properties listed, or eligible for listing, on the National Register of Historic Places as determined by Reclamation. This memorandum is intended to convey the completion of the NHPA Section 106 process for this undertaking. Reclamation has no further obligations under NHPA Section 106, pursuant to 36 CFR § 800.3(a)(1).

This memorandum is intended to convey the completion of the NHPA Section 106 process for this undertaking. Please retain a copy in the administrative record for this action. Should changes be made to this project, additional NHPA Section 106 review, possibly including consultation with the State Historic Preservation Officer, may be necessary. Thank you for providing the opportunity to comment.

CC: Cultural Resources Branch (MP-153), Anastasia Leigh – Regional Environmental Officer (MP-150)