

Study 12.1

## **HISTORIC PROPERTIES**

August 2011

### **1.0 Project Nexus**

Yuba County Water Agency's (YCWA or Licensee) continued operation and maintenance (O&M) of the existing Yuba River Development Project (Project) has a potential to affect historic properties.<sup>1</sup>

YCWA will treat all information regarding the specific locations of cultural resource sites<sup>2</sup>, which include historic properties, as "Privileged and Confidential." Without prior approval from the Federal Energy Regulatory Commission (FERC), the Global Positioning System (GPS) coordinates and maps showing the locations of such resources will not be made available to any Relicensing Participant other than FERC, State Historic Preservation Officer (SHPO), United States Department of Agriculture, Forest Service (Forest Service) for sites on National Forest System (NFS) land, and tribal chairs or designated tribal representatives of the participating tribes.

### **2.0 Resource Management Goals of Agencies with Jurisdiction Over the Resource to be Studied**

Under Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended, federal agencies must take into account the effects of their undertakings on historic properties and afford the Advisory Council on Historic Preservation (ACHP) a reasonable opportunity to comment on such undertakings. As provided in 18 CFR § 5.5(e), on January 4, 2011, FERC, the lead federal agency for the licensing, designated YCWA as FERC's non-federal representative for purposes of initiating consultation under Section 106 of the NHPA and the implementing regulations at 36 CFR § 800.2(c)(4).

YCWA believes only one agency has jurisdiction over Historic Properties that could potentially be affected by Project-related activities, the United States Department of Agriculture, Forest Service on National Forest System (NFS) lands. In accordance with 36 CFR § 800.2(c)(3), "A representative of a local government with jurisdiction over the area in which the effects of an undertaking may occur is entitled to participate as a consulting party."

Additionally, direction for the management of the Plumas National Forest (PNF) is embodied in the PNF Land and Resource Management Plan (LMP) (USDA Forest Service, PNF 1988) as

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<sup>1</sup> As defined under 36 CFR 800.16(l), historic properties are prehistoric or historic sites, buildings, structures, objects, districts, or locations of traditional use or beliefs that are included in, or eligible for inclusion in, the National Register of Historic Places (NRHP). Historic properties are identified through a process of evaluation against specific criteria. For most cultural resources evaluated for listing on the NRHP, these criteria are found at 36 CFR 60.4.

<sup>2</sup> This study plan utilizes the term cultural sites to identify any prehistoric or historic district, site, building, structure, object, or Traditional Cultural Properties, regardless of its inclusion in or eligibility for inclusion in the National Register of Historic Places (NRHP).

amended by the Herger-Feinstein Quincy Library Group Record of Decision (USDA Forest Service, Pacific Southwest Region 1999) and the Sierra Nevada Forest Plan Amendment Record of Decision (SNFPA ROD) (USDA Forest Service, Pacific Southwest Region 2004).

Similarly, direction for management of the Tahoe National Forest (TNF) is embodied in the TNF Land and Resource Management Plan (LMP) (USDA Forest Service, TNF 1990) as amended by the Herger-Feinstein Quincy Library Group Record of Decision (USDA Forest Service, Pacific Southwest Region 1999) and the Sierra Nevada Forest Plan Amendment Record of Decision (SNFPA ROD) (USDA Forest Service, Pacific Southwest Region 2004).

Each of these land managing plans takes into account the effects of ground-disturbing activities on historic properties.

### **3.0 Study Goals and Objectives**

The goal of the study is to assist FERC in meeting its compliance requirements under Section 106 of the NHPA, as amended, by determining if licensing of the Project will have an adverse effect on historic properties.

The objective of this study is to identify and assess Project effects on historic properties and potential historic properties that may be affected by Project O&M, and determining which of these resources requires NRHP-eligibility evaluations.

### **4.0 Existing Information and Need for Additional Information**

Licensee's Pre-Application Document (YCWA 2010) described existing, relevant, and reasonably available information regarding cultural resources. This information is summarized below.

#### **4.1 Background Research**

To gather existing, relevant, and reasonably available information regarding cultural resources in the project vicinity, records searches were performed at State of California repositories in May and June 2009 at the North Central Information Center (NCIC) of the California Historical Resources Information System (CHRIS) at California State University, Sacramento (CSU, Sacramento) and the Northeast Information Center (NEIC) at California State University, Chico (CSU, Chico).

The review of 96 previous cultural resources investigations and archival information indicates that lands in the FERC Project Boundary and within 0.25 mile of that boundary have been the subject of cultural resource investigations for over 40 years. YCWA estimates that the FERC Project Boundary contains 7,800 acres, of which approximately 4,700 acres (approximately 60%) are within the normal maximum water surface elevation of New Bullards Bar Reservoir. Based on existing and reasonably available information, all but about 2,200 acres of the area

within the FERC Project Boundary were previously surveyed for cultural resources. However, most of those studies are more than 10 years old and/or do not meet current professional standards for fieldwork. Table 4.1-1 lists all of the previous cultural resources investigations identified within the Project Data Gathering Area (e.g., the FERC Project Boundary and 0.25-mile study area surrounding the FERC Project Boundary).

**Table 4.1-1. Previous cultural resources investigations within the Project Data Gathering Area.**

Author	Date	Title	NCIC/NEIC Report No.	County	Quadrangle
Amesbury, Tom	1998	Milk Ranch Timber Harvest Plan	NCIC-8412	Yuba	Challenge
Andrews, Steven	2001	YWCA Fire Salvage Timber Harvest Plan	NCIC-639	Yuba	Challenge
Banka, William	2001	Pendola Ranch Timber Harvest Plan	NCIC-8297	Yuba	Camptonville
Beeson, Allison	1998	Middlebrook Timber Harvest Plan	NCIC-789	Yuba	French Corral
Bevill, Russell and Heath Browning	2006	Strawberry Etals Heritage Resource Inventory, Feather River Ranger District, Plumas National Forest, Plumas, Sierra, and Yuba Counties, California	NCIC-7537	Yuba	Strawberry Valley
Bjorkman, Philip	1992	McClellan Middle Fork Timber Harvest Plan	NCIC-7598	Nevada, Yuba	Camptonville
Boardman, Stan	1997	Chute Ravine Timber Harvest Plan	NCIC-7859	Yuba	Challenge, French Corral
Boudreaux, Daniel	2006	An Archaeological Survey Report for the Bullard Timber Harvesting Plan, Yuba County, California	NCIC-8591	Yuba	Challenge
Bystry, Carl	1994	Henry Timber Harvest Plan	NCIC-873	Yuba	Challenge
Carr, Rick	2004	An Archaeological Survey Report for the Amendment Area on Section 27 Timber Harvesting Plan, Yuba County, California	NCIC-7146	Yuba	Challenge
Cifelli, Chris	1977	Burnt Bridge Trail	NCIC-881	Yuba	Challenge
Compas, Lynn	2004	Cultural Resource Inventory for Pacific Gas and Electric's Proposed Colgate-Smartville #1 60 kV Transmission System Replacement Project, Yuba County, California	NCIC-7099	Yuba	French Corral, Oregon House, Smartville
Compas, Lynn and April Van Wyke	2007	Cultural Resources Inventory and National Register of Historic Places Evaluation of the Narrows Substation Transformer Bank Installation, Narrows Hydroelectric System (FERC No. 1403), Nevada County, California	NCIC-8665	Nevada	Smartville
Davidson, Dario	1995	Lowman Timber Harvest Plan	NEIC-3769	Sierra, Yuba	Pike and Camptonville
Davidson, Dario	1995	Lowman Timber Harvest Plan	NCIC-8450	Yuba	Camptonville
Davidson, Dario	1999	Bope Timber Harvest Plan	NEIC-2733	Sierra	Pike and Camptonville
Davidson, Dario	2002	Tanoak Timber Harvest Plan	NCIC-8456	Yuba	Strawberry Valley
Davidson, Dario	2002	59er Timber Harvest Plan	NCIC-8318	Yuba	Camptonville
Day, Donna	1983	Archaeological Reconnaissance Report - Short Form - Milk Ranch Mining Claim	NCIC-8441	Yuba	Challenge
Day, Donna	1984	Archaeological Reconnaissance of the Race Track Mining Claim	NCIC-8388	Yuba	Strawberry Valley
Day, Donna	1985	Cultural Resources Inventory Report for the Oregon Hill Timber Compartment	NCIC-8468	Yuba	Challenge
Day, Hollis	1997	Bean Ranch Timber Harvest Plan	NCIC-8566	Yuba	Clipper Mills
Day, Hollis	1998	New Bullards Bar Timber Harvest Plan	NCIC-827	Yuba	Camptonville
Deal, Krista	1980	Archaeological Reconnaissance Report, Elbow Timber Sale	NCIC-5608	Yuba	Camptonville
Dwyer, Erin and Elena Nilsson	2004	Heritage Resource Inventory of the Slapjack DFPZ, Plumas National Forest, California	NCIC-9297	Yuba	Challenge, Clipper Mills, Strawberry Valley
Ferrier, Douglas	1995	Landsburg/Kerr Timber Harvest Plan	NEIC-4865	Sierra	Camptonville
Fogerty, J.	2002	Heritage Resources Inventory for the Lower Slate Defensible Fuel Profile Zone	NCIC-8406	Yuba	Strawberry Valley
Frey, Richard	1991	Greenville Timber Harvest Plan	NCIC-876	Yuba	Challenge
Furlong, Steven	2005	An Archaeological Survey Report for the Steber Timber Harvesting Plan, Nevada County, California	NCIC-6653	Yuba	Challenge

**Table 4.1-1. (continued)**

Author	Date	Title	NCIC/NEIC Report No.	County	Quadrangle
Furlong, Steve	2007	An Archaeological Survey Report for the Thompson Timber Harvesting Plan, Yuba County, California	NCIC-8733	Yuba	Challenge
Gillett, Lucky	1994	Ruth Timber Harvest Plan	NCIC-921	Yuba	French Corral
Gillett, Lucky	1994	Slapjack Timber Harvest Plan	NCIC-8562	Yuba	Challenge
Gillett, Lucky	1995	Soroptomist Timber Harvest Plan	NCIC-8458	Yuba	Camptonville, Challenge
Gillett, Lucky	2000	Vierra II Timber Harvest Plan	NCIC-7882	Yuba	Challenge
Gillett, Lucky	2000	Celestial Valley Ditch Timber Harvest Plan	NCIC-8308	Yuba	Camptonville
O'Halloran, Molly	1992	Cultural Resource Inventory of the Oregon Insect Young Growth Special Salvage Timber Sale, Sierra County, Downieville Ranger District, Tahoe National Forest, Report Number 05-17-1005	NEIC-1388	Sierra, Yuba	Goodyear's Bar, Camptonville, Pike, Strawberry Valley
Helm, Wayne	1999	Little Oregon Creek/Fountain House Emergency Timber Salvage	NCIC-7096	Yuba	Challenge
Henrie, LeAnn	1995	Cultural Resource Inventory for the Bullards Bar Underburn, Yuba County, Downieville Ranger District, Tahoe National Forest	NCIC-7632	Yuba	Challenge
Humphreys, Stephen	1967	The Archaeology of the New Bullard's Bar Reservoir, Yuba County, California	NCIC-517	Yuba	Camptonville
Jensen, Erik	2003	An Archaeological Survey Report for the Section 27 Timber Harvesting Plan, Yuba County, California	NCIC-7145	Yuba	Challenge
Jensen, Erik	2006	An Archaeological Survey Report for the Section 28 CHY 80 Amendment, Yuba, California	NCIC-6928	Yuba	Challenge
Johnson, James	1992	Burnt Ridge Timber Harvest Plan	NCIC-7888	Yuba	Challenge
Johnson, James	1994	Hauck/Dunston Timber Harvest Plan	NCIC-8555	Yuba	Challenge
Johnson, James	1995	Paredes Timber Harvest Plan	NCIC-8575	Yuba	Camptonville, Challenge
Johnson, James	1999	4-H Camp Timber Harvest Plan	NCIC-8551	Yuba	Challenge
Johnson, Jerald and Dorothea Theodoratus; Storm, Donald	1978; 1974	Cultural Resources of the Marysville Lake, California Project (Parks Bar Site), Yuba and Nevada Counties, California; An Archaeological Site Survey of Selected Portions of the Proposed Marysville Dam Project, Yuba River, California	NCIC-48	Yuba, Nevada	French Corral, Oregon House, Smartville
Jones, Terry	1982	The North Yuba Survey: A Prehistoric Archaeological Survey of 14,000 acres in the Northern Sierra Nevada; also Archaeological Survey of the Hawkfly and the North Yuba Timber Compartments and the Pride Timber Sale	NCIC-804	Yuba, Sierra	Camptonville, Challenge, Clipper Mills, Strawberry Valley
Jones and Stokes	2003	Cultural Resources Inventory and Evaluation Report for the Yuba-Feather Supplemental Flood Control Project, Yuba County, California	NCIC-6014	Yuba	Challenge
Keenan, Kelly	2001	UC Field Station Vegetation Management Plan	NCIC-2756	Yuba	Oregon House, Smartville
Keye, William	1993	Toll House Timber Harvest Plan	NCIC-8311	Yuba	Camptonville
Kostick, Greg	1996	Vierra Timber Harvest Plan	NCIC-7097	Yuba	Challenge
Kostick, Greg	2000	Hewton Timber Harvest Plan	NCIC-7630	Yuba	Challenge
Kostick, Greg	2000	Patterson Timber Harvest Plan	NCIC-7636	Yuba	Challenge
Leach-Palm, Laura et al.	2008	Cultural Resources Inventory of Caltrans District 3 Rural Conventional Highways in Butte, Colusa, El Dorado, Glenn, Nevada, Placer, Sacramento, Sierra, Sutter, Yolo, and Yuba Counties	NCIC-9326	Yuba, Nevada, Sierra	Camptonville
Leonhard, Scott	1996	Celestial Valley Timber Harvest Plan	NCIC-8320	Yuba	Camptonville
Leonhard, Scott	1997	Bullards Bar Timber Harvest Plan	NCIC-650	Yuba	Challenge, French Corral
Leonhard, Scott	1998	Pendola Timber Harvest Plan	NCIC-7093	Yuba	Challenge
Leonhard, Scott	2001	Shappert Timber Harvest Plan	NCIC-8335	Yuba	Camptonville
Levy, David	1992	Lacey-Kelly Timber Harvest Plan	NCIC-841	Yuba	Challenge
Long, Kelly	2005	An Archaeological Survey Report for the Fuel Reduction on Private Lands in the Forest Service Slapjack DFPZ - Middlebrook, A Proposition 40 Project, Yuba County, California	NCIC-6973	Yuba	French Corral
Maniery, James and Mary Maniery	1997	Cultural Resources Inventory of the Soper-Wheeler Land Exchange, Plumas National Forest, California	NCIC-642	Yuba	Challenge, Clipper Mills, French Corral, Strawberry Valley

**Table 4.1-1. (continued)**

Author	Date	Title	NCIC/NEIC Report No.	County	Quadrangle
McCall, Dan	2001	Whitehead Timber Harvest Plan	NCIC-7858	Yuba	Challenge, Clipper Mills
McKillop, Ryan	1998	Empire Creek Timber Harvest Plan	NCIC-7112	Yuba	Clipper Mills
McMorris, Christopher	2004	Caltrans Historic Bridges Inventory Update: Metal Truss, Movable, and Steel Arch Bridges	NCIC-6675	Yuba	Camptonville
Meals, Hank	1979	Camptonville Station Parking Lot Expansion	NCIC-8302	Yuba	Camptonville
Newcomb, Alan	1996	Mumm Timber Harvest Plan	NCIC-834	Yuba	Camptonville
Newcomb, Alan	1997	Robert Mumm Timber Harvest Plan	NCIC-2038	Yuba	Camptonville
Origer, Thomas	1985	A Report on the Archaeological Reconnaissance of Pacific Gas and Electric Company's Camptonville Timber Sale Project, Yuba County, California	NCIC-456	Yuba	Camptonville
Peak, Melinda	1988	Cultural Resources Assessment of the Colgate Tunnel Timber Sale Area, Yuba County, California	NCIC-8233	Yuba	Challenge, French Corral
Rieger, Larry	1992	Browning Timber Harvest Plan	NCIC-651	Yuba	Camptonville
Rieger, Larry	1994	Colgate-Challenge T/L Timber Harvest Plan	NCIC-8558	Yuba	French Corral
Rogers, Terry	1998	Ingersoll-Dobbins Timber Harvest Plan	NCIC-7852	Yuba	French Corral
Rogers, Terry	1999	Grizzly Gulch Timber Harvest Plan	NEIC-2727	Sierra	Camptonville
Smith , Douglas	1997	Pendola Ranch Timber Harvest Plan - Additional Harvest Acres	NCIC-1129	Yuba	Camptonville
Smith , Douglas	1999	Pendola Ranch Timber Harvest Plan - Additional Harvest Acres	NCIC-1130	Yuba	Camptonville
Stevens, Dennis	1995	Cultural Resource Inventory of the Bullards Bar Water System Replacement, Yuba County, Downieville Ranger District, Tahoe National Forest, Report Number 05-17-1145	NCIC-7646	Yuba	Challenge
Stevens, Dennis	1993	Cultural Resources Inventory of the Oregon Creek Analysis Area, Yuba and Sierra Counties, Downieville Ranger District, Tahoe National Forest	NCIC-8446	Yuba	Camptonville
Stevens, Dennis	1994	Cultural Resources Inventory of the Oregon Creek Analysis Area, Yuba and Sierra Counties, Downieville Ranger District, Tahoe National Forest (Addendum 1)	NCIC-8447	Yuba	Camptonville
Stevens, Dennis	1997	Jaybird Timber Sale	NCIC-8403	Yuba	Camptonville, Strawberry Valley
Stevens, Dennis	1997	Schoolhouse, Dark Day and Hornswoggle Campgrounds Rebuild Archaeological Report	NCIC-8439	Yuba	Camptonville
Stevens, Dennis	1997	Moran Road Turnaround and Dark Day Parking Lot Expansion Archaeological Report	NCIC-8459	Yuba	Camptonville, Challenge
Stevens, Dennis	1982	Mosquito Timber Sale Archaeological Reconnaissance Report	NCIC-8460	Yuba	Camptonville, Challenge
Stevens, Dennis	1988	Skyline Compartment Timber Sale	NCIC-8457	Yuba	Camptonville, Challenge
Storm, Donald	1980	Cultural Resource Investigation of the Ingersoll Subdivision Tracts 200, 222, and 224, near Dobbins, Yuba County, California	NCIC-596	Yuba	French Corral
Violett, Paul	1992	Gellerman Timber Harvest Plan	NCIC-8559	Yuba	Challenge, French Corral
Walden, Peter	2000	Burnett Timber Harvest Plan	NCIC-8552	Yuba	Challenge
Wayland, Brian	1999	Summit Hill Ranch Timber Harvest Plan	NCIC-7640	Yuba	Challenge
Werner, Roger and Jay Flaherty	1981	Marysville Road Cultural Resources Investigation	NCIC-908	Yuba	Camptonville
Werner, Roger H. and Flaherty, Jay M.	1981	Ridge Road Cultural Resources Investigation	NEIC-1177	Sierra	Camptonville
Werner, Roger and Julia Costello	1984	Archaeological Reconnaissance of the Deadwood Creek Water Power Project	NCIC-8401	Yuba	Strawberry Valley
Wheeler, Thomas	1980	Marysville Road Improvement Archaeological Report	NCIC-8438	Yuba	Camptonville
Wheeler, Thomas and Dan Stevens	1980	Studhorse Road Relocation Project Archaeological Survey	NCIC-8434	Yuba	Camptonville
Whittlesey, Nicholas	2001	Soroptomist II Timber Harvest Plan	NCIC-2757	Yuba	Camptonville, Challenge
Wiant, Wayne	1988	Addendum-Archaeological Reconnaissance of the Proposed New Diversion and Access Road Locations for the Deadwood Creek Water Power Project	NCIC-1005	Yuba	Strawberry Valley
Windward, Stephen	2002	Oregon Hill Timber Harvest Plan	NCIC-7638	Yuba	Challenge

**Table 4.1-1. (continued)**

Author	Date	Title	NCIC/NEIC Report No.	County	Quadrangle
Wise, David	1999	Jones Timber Harvest Plan	NCIC-1982	Yuba	Challenge

NCIC = North Central Information Center  
NEIC= Northeast Information Center

For those portions of the Project located within Yuba and Nevada counties, YCWA identified a total of 149 previously recorded cultural resources on file at the NCIC. Of these, 24 sites lie inside the FERC Project Boundary and the remaining 125 sites are within the 0.25-mile study area surrounding the FERC Project Boundary. No previously recorded sites were identified for the Sierra County portion of the Project. The 24 sites within the FERC Project Boundary are listed in Table 4.1-2.

**Table 4.1-2. Previously recorded cultural resources within the FERC Project Boundary.**

#	Trinomial	Primary No.	Tahoe National Forest Service No.	Recorder/Date <sup>1</sup>	Site Type <sup>2</sup>	Brief Description	NRHP Eligibility <sup>3</sup>
1	CA-YUB-0018	P-58-0036	None	Riddell/1966	P	Bedrock mortars (x7) and midden deposits; author recommended testing; currently inundated	Not evaluated
2	CA-YUB-0019	P-58-0037	None	Riddell/1966	P	Bedrock mortars (x5) and midden deposits; author recommended no further work; currently inundated	Not evaluated
3	CA-YUB-0020	P-58-0038	None	Riddell/1966	P	Single depression, possible housepit; no author recommendation indicated; currently inundated	Not evaluated
4	CA-YUB-0021	P-58-0039	None	Riddell/1966	P	Bedrock mortars (x51) and village, several areas were indicative of house pits; lithic material; excavated and reported by Humphreys (1967); currently inundated	Not evaluated
5	CA-YUB-0022	P-58-0040	None	Olsen/1966	P	Bedrock mortars (number not indicated); author recommended no further work; currently inundated	Not evaluated
6	CA-YUB-0023	P-58-0041	None	Olsen/1966	P	Bedrock mortars (x5); author recommended no further work; currently inundated	Not evaluated
7	CA-YUB-0024	P-58-0042	None	Riddell/1966	P	Bedrock mortars (x13) and midden deposits; author recommended testing; currently inundated	Not evaluated
8	CA-YUB-0025/H	P-58-0043	None	Riddell/1966	P/H	Bedrock mortars (x18) and midden deposits; possible prehistoric camp site; historic-period stage stop; author recommended excavation; currently inundated	Not evaluated
9	CA-YUB-0026/H	P-58-0044	None	Riddell/1966	P/H	Lithic scatter; historic-period farm buildings one site; author recommended no further work; currently inundated	Not evaluated
10	CA-YUB-0868	P-58-0886	None	Storm/1977	P	Bedrock mortars (x15) and pestles (x4); briefly exposed during survey (normally inundated by New Bullards Bar Reservoir)	Not evaluated

**Table 4.1-2. (continued)**

#	Trinomial	Primary No.	Tahoe National Forest Service No.	Recorder/Date <sup>1</sup>	Site Type <sup>2</sup>	Brief Description	NRHP Eligibility <sup>3</sup>
11	CA-YUB-0887	P-58-0905	None	Deen/1977	P	Bedrock mortars (x2); briefly exposed during survey (normally inundated by New Bullards Bar Reservoir)	Not evaluated
12	CA-YUB-0894	P-58-0912	None	Storm/1977, Flaherty and Werner/1984	P	Bedrock mortars (at least 6)	Not evaluated
13	CA-YUB-1054	P-58-1072	05-17-53-00072	Budy/1976	P	Single depression, tool fragments, lithic debris; briefly exposed during survey (normally inundated by New Bullards Bar Reservoir)	Not evaluated
14	CA-YUB-1217	P-58-1236	None	Peak/1988	P	Bedrock mortars (x2) and mano fragments (x2)	Not evaluated
15	CA-YUB-1574	P-58-1918	None	Flaherty and Werner/1984	P	Bedrock mortars (x3)	Not evaluated
16	None	P-58-1532	None	Wayland/1999	H	Former Summit Hill Ranch, a late 1950s construction	Not evaluated
17	None	P-58-1579	None	Boardman/1997	P	Bedrock mortars (x7)	Not evaluated
18	None	P-58-1947	None	Moine/1998	H	Road bed, possible section of Ramm's Toll Road	Not evaluated
19	None	None	05-17-53-00102	Unknown	U	Unknown <sup>2</sup> site description.	Unknown
20	None	None	05-17-53-00126	Unknown	U	Unknown <sup>2</sup> site description. Site may be inundated.	Unknown
21	None	None	05-17-53-00127	Unknown	U	Unknown <sup>2</sup> site description. Site may be inundated.	Unknown
22	None	None	05-17-53-00139	Unknown	U	Unknown <sup>2</sup> site description. May include/encompass site P-58-0294, located outside the APE.	Unknown
23	None	None	05-17-53-00254	Unknown	U	Unknown <sup>2</sup> site description; located on end of project road and needs confirmation that site is in APE.	Unknown
24	None	None	05-17-53-00340	Unknown	U	Unknown <sup>2</sup> site description. Site may be inundated.	Unknown

<sup>1</sup>Unknown: Names of recorders and dates of records were not available during initial records search and will be researched during archival research;

<sup>2</sup>Site Type: P = Prehistoric, H = Historic; P/H = Both Prehistoric and Historic; U = Unknown site contents;

<sup>3</sup>Unknown: Mapped site locations only available during initial records search; associated site records to be collected during archival research.

The majority of historic period site assemblages reflect industrial mining and domestic occupations of the project vicinity; almost one-third of the historic period sites contain mining-related features. Historic infrastructure features, predominantly ditches and roads, were also identified. Native American pre-contact sites are typical of those found throughout the region, namely locations with bedrock milling features and scatters of lithic material. Other documented pre-contact cultural remains range from an isolated projectile point to evidence of long-term occupations evinced by midden deposits, possible house pits, and other domestic features.

Many previously identified cultural resources were not evaluated for eligibility for inclusion in the NRHP. Approximately 70 percent of the surveys occurred 10 or more years ago, provide insufficient information to determine the adequacy of the coverage employed, or report methods that indicate the survey coverage was broad or otherwise did not fully cover the areas included in those projects.

A review of historical 7.5-minute United States Geological Survey (USGS) topographic quadrangles and BLM General Land Office (GLO) plats indicate that at least 44 potential historic-era sites or features may still exist, some of which may be within the FERC Project Boundary. Potential historic sites are those places or features indicated in historic documentation (personal accounts, maps, regional histories, etc.) that may or may not still exist, and that will require ground-truthing to determine if materials associated with these places are present. Table 4.1-3 lists the potential historic-period sites or features identified within the Data Gathering Area.

**Table 4.1-3. Potential historic-period sites within the Project Data Gathering Area.**

#	Type	Description	Government Land Office Data Source (Section, Township, Range, Date)	Quadrangle
1	Transportation	Unlabeled trails	Sections 4,5 and 6, Township 19 North, Range 8 East (1878)	Strawberry Valley, Clipper Mills
2	Transportation	Valley and Foster Bar Road	Sections 16,17 and 18, Township 19 North, Range 8 East (1878)	Strawberry Valley, Clipper Mills, Challenge
3	Mining	Placer diggings	Section 13, Township 19 North, Range 7 East (1871)	Clipper Mills, Challenge
4	Residence	Bean's house and orchard	Section 13, Township 19 North, Range 7 East (1871)	Clipper Mills, Challenge
5	Mining/Irrigation	Ditch segment	Section 34, Township 19 North, Range 7 East (1871)	Challenge
6	Mining	Placer diggings, ditch, flumes	Section 36, Township 19 North, Range 7 East (1871)	Challenge
7	Transportation	North San Juan and Alleghany Road	Sections 17 and 18, Township 18 North, Range 9 East (1878)	Pike, Camptonville
8	Field	Possible agricultural field	Section 18, Township 18 North, Range 9 East (1878)	Camptonville
9	Field	Possible agricultural field	Sections 17 and 18, Township 18 North, Range 9 East (1878)	Pike, Camptonville
10	Field	Possible agricultural field	Sections 18 and 19, Township 18 North, Range 9 East (1878)	Camptonville
11	Field and residence	Possible agricultural field and residence (dot on map)	Sections 18 and 19, Township 18 North, Range 9 East (1878)	Camptonville
12	Transportation	Unlabeled trail	Sections 17,18 and 19, Township 18 North, Range 9 East (1878)	Pike, Camptonville
13	Transportation	Unlabeled trail	Sections 20 and 21, Township 18 North, Range 9 East (1878)	Pike
14	Mining/Irrigation	Ditch segment	Sections 19 and 20, Township 18 North, Range 9 East (1878)	Pike, Camptonville
15	Residence	Cabin	Section 20, Township 18 North, Range 9 East (1878)	Pike
16	Mining/Irrigation	Ditch segment	Sections 20 and 21, Township 18 North, Range 9 East (1878)	Pike Camptonville
17	Mining	Old quartz mill	Section 20, Township 18 North, Range 9 East (1878)	Pike
18	Transportation	Foster Bar Road	Sections 3,4,7,8,and 9, Township 18 North, Range 8 East (1876)	Camptonville
19	Field	Possible agricultural field	Sections 3 and 4, Township 18 North, Range 8 East (1876)	Camptonville
20	Transportation	Unlabeled road	Sections 5,6,7 and 8, Township 18 North, Range 8 East (1876)	Camptonville
21	Transportation	Bridge (over North Yuba River)	Section 7, Township 18 North, Range 8 East (1876)	Camptonville, Challenge
22	Transportation	Unlabeled road	Section 7, Township 18 North, Range 8 East (1876)	Camptonville, Challenge
23	Mining/Irrigation	Small ditch	Section 8, Township 18 North, Range 8 East (1876)	Camptonville, Challenge
24	Mining	Lot No. 37-Nevada Mining Company Placer Mine	Sections 4,8,9, and 17, Township 18 North, Range 8 East (1876)	Camptonville
25	Transportation	Road from San Juan to Camptonville	Sections 9,10,11 and 16, Township 18 North, Range 8 East (1876)	Camptonville



**Table 4.1-3. (continued)**

#	Type	Description	Government Land Office Data Source (Section, Township, Range, Date)	Quadrangle
26	Transportation	Unlabeled road	Sections 10 and 11, Township 18 North, Range 8 East (1876)	Camptonville
27	Mining	Old gold diggings	Section 11, Township 18 North, Range 8 East (1876)	Camptonville
28	Transportation	“Old Road” and road segments	Section 13, Township 18 North, Range 8 East (1876)	Camptonville
29	Transportation	“Old Road” segment	Section 14, Township 18 North, Range 8 East (1876)	Camptonville
30	Transportation	“Old Road” segment	Sections 10 and 15, Township 18 North, Range 8 East (1876)	Camptonville
31	Transportation	Unlabeled road	Sections 16 and 17, Township 18 North, Range 8 East (1876)	Camptonville
32	Field	Possible agricultural field	Sections 17 and 20, Township 18 North, Range 8 East (1876)	Camptonville
33	Transportation	Unlabeled road segments	Sections 17, 19 and 20, Township 18 North, Range 8 East (1876)	Camptonville, Challenge
34	Mining/Irrigation	Ditch	Sections 19, 20 and 29, Township 18 North, Range 8 East (1876)	Camptonville, Challenge
35	Transportation	Unlabeled road	Sections 29 and 30, Township 18 North, Range 8 East (1876)	Camptonville, Challenge
36	Transportation	Unlabeled trail	Section 30, Township 18 North, Range 8 East (1876)	Camptonville, Challenge
37	Transportation	Unlabeled road segments	Sections 1, 2, 3 and 12, Township 18 North, Range 7 East (1878)	Challenge
38	Agriculture	McConnell’s Orchard	Sections 2 and 3, Township 18 North, Range 7 East (1878)	Challenge
39	Transportation	Unlabeled road	Sections 11, 13 and 14, Township 18 North, Range 7 East (1878)	Challenge
40	Transportation	Romb’s Bridge	Section 13, Township 18 North, Range 7 East (1878)	Challenge
41	Field	Possible agricultural field	Section 24, Township 18 North, Range 7 East (1878)	Challenge
42	Transportation	Unlabeled trail (connects with trail in Section 30, Township 18 North, Range 8 East)	Section 25, Township 18 North, Range 7 East (1878)	Challenge
43	Transportation	Bullard’s Bar Road	Sections 2,3, and 4, Township 17 North, Range 7 East (1874)	French Corral
44	Transportation	Road to San Juan	Section 23, Township 16 North, Range 6 East (1876)	Smartville <sup>1</sup>

<sup>1</sup> In 2008, the people of this community petitioned to have the name changed to Smartsville, with an ‘s’ in the middle of the name. However, the USGS gage refers to the former spelling of the community name. Therefore in this document, the community is referred to as such.

## 5.0 Study Methods and Analysis

### 5.1 Study Area

The study area is the Area of Potential Effects (APE), which includes all lands, Project facilities and features within the existing FERC Project Boundary, and Project-affected locations outside the FERC Project Boundary. As defined in 36 CFR § 800.16(d), an APE is:

the geographic area or areas within which an undertaking may directly or indirectly cause alterations in the character or use of historic properties, if any such properties exist. The area of potential effects is influenced by the

scale and nature of an undertaking and may be different for different kinds of effects caused by the undertaking.

For purposes of this relicensing, the APE includes all lands within the existing FERC Project Boundary and a buffer of about 200 feet surrounding the boundary of New Bullards Bar Reservoir. The FERC Project Boundary and APE are shown on the maps included in Attachment A. Land ownership within the APE includes 4,306 acres of National Forest Systems (NFS) land managed by the United States Department of Agriculture, Forest Service as the Tahoe National Forest (3,140 acres) and Plumas National Forest (1,165 acres). Acreage within the APE and FERC Project Boundary is listed below in Table 5.1-1 by landowner and total acreage for each Project facility.

**Table 5.1-1. Distribution of Project acreage by landownership and Project facility**

YRDP <sup>1</sup> Project Facility	YCWA <sup>1</sup>	SPI <sup>1</sup>	Private <sup>1</sup> (other)	TNF <sup>1</sup>	PNF <sup>1</sup>	USACE <sup>1</sup>	State
New Colgate <sup>2</sup> - Nevada Co.	0	0	1.0	30.6	0	0	0
New Colgate - Yuba Co.	3,249.6	39.2	117.9	3,062.7	1,165.6	0	0
New Colgate - Sierra Co.	0	26.9	23.6	47.4	0	0	0
<i>Acreage Subtotal</i>	<i>3,243.8</i>	<i>26.9</i>	<i>148.1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
Narrows No. 2 <sup>3</sup> - Nevada Co.	0	0	0.1	0	0	0	0
Narrows No. 2 - Yuba Co.	1.0	0	3.3	0	0	16.0	20.0
Narrows No. 2 - Sierra Co.	0	0	0	0	0	0	0
<i>Acreage Subtotal</i>	<i>1.0</i>	<i>0</i>	<i>3.3</i>	<i>0</i>	<i>0</i>	<i>16.0</i>	<i>20.0</i>
<b>Total</b>	<b>3,250.6</b>	<b>66.2</b>	<b>3.3</b>	<b>3,140.7</b>	<b>1,165.6</b>	<b>16.0</b>	<b>20.0</b>

<sup>1</sup> YRDP = Yuba River Development Project; YCWA = Yuba County Water Agency; SPI = Sierra Pacific Industries; Private/Other = Private residence or other private landholding; TNF = Tahoe National Forest; PNF = Plumas National Forest; USACE = U.S. Army Corps of Engineers;

<sup>2</sup> New Colgate Facility includes New Bullards Bar Reservoir, New Bullards Bar Dam and Spillway, Our House Diversion Dam, Log Cabin Diversion Dam, New Colgate Powerhouse, Penstock, and Switchyard, and Access Roads within the FERC Project Boundary.

<sup>3</sup> Narrows No. 2 Facility = Narrows No. 2 Powerhouse, Penstock, Switchyard, and Access Road within the FERC Project Boundary

YCWA will coordinate with tribes and agencies to identify whether there are known tribal or other cultural resources concerns outside the FERC Project Boundary for which there is a Project nexus, and consult with SHPO to seek concurrence on the APE as early as possible in the relicensing process. If YCWA proposes an addition to the Project, the APE will be expanded if necessary to include areas potentially affected by the addition.

## 5.2 General Concepts and Procedures

The following general concepts and practices apply to the study:

- Personal safety is the most important consideration of each fieldwork team.
- Licensee will make a good faith effort to obtain permission to access private property where needed well in advance of entering the property.
- Field crews may make minor variances to the FERC-approved study in the field to accommodate actual field conditions and unforeseen problems. When minor variances are made, Licensee's field crew will follow the protocols in the FERC-approved study.

- When Licensee becomes aware of major variances to the FERC-approved study, Licensee will issue an e-mail to the Relicensing Contact List describing the variance and reason for the variance. Licensee will contact by phone the Forest Service (if the variance is on National Forest System land), USFWS, SWRCB and CDFG to provide an opportunity for input regarding how to address the variance. Licensee will issue an e-mail to the Relicensing Contact List advising them of the resolution of the variance. Licensee will summarize in the final study report all variances and resolutions.
- Licensee's performance of the study does not presume that Licensee is responsible in whole or in part for measures that may arise from the study.
- Global Positioning System (GPS) data will be collected using a Survey Grade Trimble GPS (sub-meter data collection accuracy under ideal conditions), or similar unit. GPS data will be post-processed and exported from the GPS unit into Geographic Information System (GIS) compatible file format in an appropriate coordinate system using desktop software. The resulting GIS file will then be reviewed by both field staff and Licensee's relicensing GIS analyst. Metadata will be developed for deliverable GIS data sets.

### **5.3 Study Methods**

The study methods will consist of the following five steps, each of which is described below.

#### **5.3.1 Step 1 – Obtain SHPO Approval of APE**

As required under Section 106 [36 CFR § 800.4(a)(1)], YCWA will submit maps depicting the APE to the SHPO for formal review, comment, and concurrence as early in the relicensing process as practicable, following the final definition of the APE. Once approved, the maps and SHPO's concurrence letter will be filed with FERC. YCWA will include in the SHPO correspondence the Cultural Resources Specialists for TNF and PNF and interested tribes, if requested.

YCWA may request that SHPO concur with a modified APE during the study if YCWA determines that the Project affects historic properties outside the previously SHPO-approved APE.

#### **5.3.2 Step 2 – Archival Research**

Information has been obtained from the record searches that identified previous cultural surveys and recorded archaeological and historic-era properties within or directly adjacent to the APE. Archival research will also be conducted at the repositories listed below, and others as they are identified during the study, to obtain additional information specific to the prehistory and history of the Project area, the hydroelectric system as a whole, and its individual features. The results of the archival research will serve as the basis for preparing the prehistoric and historic contexts against which archaeological and historic-era properties may be evaluated. Historical photographs located during the archival research will be cited in the text as figures and provided in a separate appendix, unless they are subject to copyright laws. Previous NRHP evaluations of Project system

features, if they exist, will be used as much as possible. The places to be contacted or visited shall include:

- Oral histories, as applicable
- United States Department of Agriculture (USDA) Forest Service, Tahoe National Forest
- USDA Forest Service, Plumas National Forest
- Yuba County Library California Room, Marysville
- The Firehouse Museum, Nevada City
- Sacramento History Center and Archives
- State Library, Sacramento
- Camptonville Historical Society
- YCWA archives
- Special Collections, Meriam Library, California State University, Chico
- United States Army Corps of Engineers (USACE) for Englebright Reservoir Area

### **5.3.2 Step 3 – Field Survey and Identification of Resources**

FERC is required to make a reasonable and good faith effort to identify historic properties that may be affected by the Project. As described at 36 CFR § 800.4(b)(1), this may be accomplished through field surveys that are implemented in accordance with the Secretary of the Interior's Standards and Guidelines for Identification (NPS 1983). FERC is also required to consider any other applicable professional standards and tribal, state, or local laws or procedures to complete the identification of historic properties.

#### **5.3.2.1 Archaeological Field Survey**

Following completion of Step 2, YCWA will conduct a field survey to verify locations of previously recorded cultural resources and to identify previously unknown cultural resources, if present. This will be completed by examining all accessible lands within the APE. Areas within the APE that cannot be accessed in a safe manner (e.g., certain locations containing dense vegetation, or unsafe slopes) will not be included within the survey or recording of archaeological and historic-era properties; these areas will be identified in the resulting report and an explanation for survey exclusion will be provided.

Field methods will include crew members walking parallel transects spaced 15-20 meters apart. In areas containing moderately dense vegetation or moderately steep terrain, the survey strategy may employ 20–40-meter transects. All topographical features encountered in moderate areas, and considered to be sensitive for cultural resources (i.e., springs, drainages, etc.) will be thoroughly inspected. Lands typically inundated by New Bullards Bar Reservoir that become accessible during the survey season as a result of normal reservoir draw-downs also will be examined. To accommodate low water levels, the field survey of the reservoir will be scheduled to occur as close to the periods of annual low reservoir levels as possible, depending on weather conditions. Additionally, each site identified in the APE will be assessed for Project-related effects including, but not limited to, water fluctuation, wave action, and vegetation management activities.

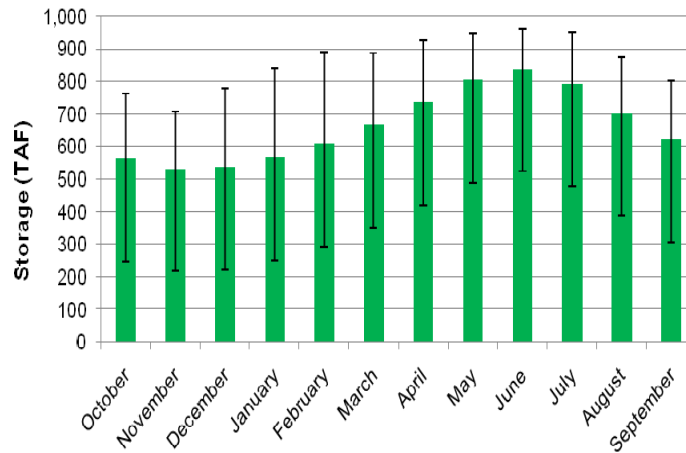
The field survey will be supervised by qualified, professional archaeologists (i.e., individuals who meet the Secretary of the Interior's Standards for professional archaeologists). Tribes will be invited to submit resumes of qualified tribal members to participate in the field survey. The field survey will be used to examine all lands within the APE that can safely be accessed and will follow the Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation (NPS 1983) to determine whether historic properties will be affected by the relicensing.

Locations of previously recorded cultural resources will be verified and the sites re-recorded only if their existing site records or other documentation do not meet current standards for recording, or if the condition and/or integrity of the property has changed since its previous recording. Newly discovered cultural resources, including isolated finds, will be fully documented following the recordation procedures outlined in *Instructions for Recording Historical Resources* (OHP 1995), which utilizes State of California, Department of Parks and Recreation (DPR) forms DPR 523 A-L. A sketch map for each site recorded or re-documented will be drawn to-scale and the property photographed. The locations of all archaeological sites and isolates documented during the survey will be plotted by YCWA's cultural resources specialist or cultural consultant onto the appropriate USGS 1:24,000 scale topographic map at the time of discovery. Field personnel will use a GPS receiver to document the location of cultural resources (including isolates) discovered during the survey, which will be plotted onto the appropriate USGS topographic quadrangle using the UTM coordinate system. GPS data related to recordation of historic properties will adhere to DPR specifications for accuracy and site specific procedures, and with the General Concepts and Procedures provided above in Section 5.2. Additionally, the areas examined will be plotted onto the appropriate USGS 7.5-minute topographic quadrangle for comparison with previous survey coverage maps.

Archaeological surveys that occur on Forest Service lands will require special use permits.

As requested by TNF, artifacts encountered during the field survey on the TNF will be left in place; no artifacts on TNF will be collected during the field survey. As requested by the PNF, time-sensitive diagnostic artifacts encountered during the field work will be collected and submitted to PNF following completion of the study. All diagnostic artifacts encountered will be documented on DPR Primary Records, their positions mapped using a GPS unit, and each artifact photographed using a digital photography format.

YCWA will schedule the field survey within New Bullards Bar Reservoir (i.e., within the normal maximum water surface elevation), to the extent surveys within the reservoir can be performed, for fall or winter, weather permitting, when annual water levels are at their lowest, as shown in Figure 5.3-1. Surveys outside the New Bullards Bar Reservoir pool will be scheduled by YCWA at its convenience.



**Figure 5.3-1. Historic annual reservoir levels at New Bullards Bar Reservoir.**

### 5.3.2.2 Historic-Era Inventory of Project System Features

A field inspection, documentation, and subsequent NRHP evaluation (see below) of the entire Project system will be undertaken by qualified, professional individuals meeting the Secretary of the Interior Standards for Architectural and Engineering Documentation. Individual components will be recorded or re-recorded to meet current DPR standards. This will include digital color photography and sketch maps of individual features that show the relationship of buildings within each compound or camp that may be associated with them. Some or all features comprising the hydroelectric system may not have reached 50 years of age at the time of the field survey. However, the entire Project system will be documented and evaluated for listing on the NRHP because the system will soon reach 50 years of age and because it may be associated with one or more of the four criteria, defined in 36 CFR 60.4, which may result in an eligibility finding that supercedes the age criterion.

### 5.3.2.3 Discovery and Treatment of Human Remains

If human remains are discovered during the field survey, the field supervisor will immediately contact YCWA and Forest Service cultural resources specialists, as appropriate. Should human remains be identified during the survey, or any phase of work under this plan, all work in the immediate area will cease and the provisions contained within federal and/or State law and ACHP policy (ACHP 2007) will be followed. In addition to compliance with federal and State law, contacts with local Native American tribes, archaeological contractors, physical anthropologists, YCWA system operators, Forest Service; and, in some cases, the SHPO may be involved. Moreover, human remains and associated funerary objects, if any, often are viewed as sacred and must be treated with respect. Sensitivity toward all interested parties also is essential whenever human remains are concerned.

### 5.3.3 Step 4 – National Register of Historic Places Evaluation

During documentation of archaeological sites and features in Step 3, YCWA will also document the condition of each resource to assist in identifying potential Project-related effects and level of integrity to provide recommendations for NRHP eligibility or evaluations. The NRHP evaluations may be accomplished using up to three methods: 1) previously unevaluated sites that can be evaluated based on the data collected during the archival research, field survey, and site recording will be evaluated in a joint report that presents the results of the survey and NRHP evaluations, and the report submitted to affected tribes and appropriate federal agencies for review and comment prior to final submission to the SHPO for concurrence; 2) previously unevaluated sites that are found to be affected by Project-related activities but for which additional archival or field studies are deemed necessary to evaluate their NRHP eligibility will be included in YCWA's PM&Es for implementation and management outside of the Study Plan, in consultation with tribes and agencies; and 3) unevaluated sites and sites previously evaluated as eligible for listing on the NRHP that are not experiencing Project effects will all be managed as if eligible for listing on the NRHP, avoided by Project activities, and included in YCWA's PM&Es for management outside of the Study Plan in consultation with tribes and agencies. Additionally, YCWA will consult with the participating tribes prior to submitting evaluations to TNF, PNF, or SHPO regarding any values that tribes may associate with prehistoric archaeological sites or other tribal cultural resources documented in the APE to assist in identifying properties that may be eligible for the NRHP.

YCWA will utilize the National Register criteria for all sites to be evaluated, which are defined in 36 CFR 60.4, and which include the following:

National Register Criteria for Evaluation. The quality of significance in American history, architecture, archaeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association and

- (a) that are associated with events that have made a significant contribution to the broad pattern of our history;
- (b) that are associated with the lives of persons significant in our past;
- (c) that embody the distinctive characteristics of a type, period, or method of construction or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction;
- (d) that have yielded, or may be likely to yield, information important to prehistory or history.

If appropriate, and depending on the results of the cultural resources inventory, the National Park Service Preservation Brief 36: Protecting Cultural Landscapes, may be taken into consideration to potentially identify whether any cultural landscapes may be present in the APE that require management considerations.

### 5.3.3.1 Evaluation of Historic Project System Features

Previously evaluated historic Project systems or individual features will not be re-evaluated unless substantial changes in their conditions have been observed and documented during the study, or the evaluation is more than ten years old. If deemed appropriate by a qualified, professional cultural resources specialist, individual historic-era features may be evaluated together as a district.

All previously unevaluated historic-era Project features will be formally evaluated for eligibility to the NRHP. The evaluation will consist of three tasks: 1) development of a historic context for the APE using archival research; 2) examination of each historic feature to document and assess the level of integrity, both individually and as an element of a potential Hydroelectric Historic District; and 3) the historical information and the physical site data obtained during background and field research will be used to evaluate the eligibility of each Project feature individually and as part of a potential historic district for inclusion on the NRHP.

### 5.3.4 Step 4 – Identify and Assess Potential Project Effects on National Register-Eligible Properties

As required under 36 CFR § 800.5, YCWA will identify and assess any adverse effects on identified historic properties resulting from Project O&M. As noted in Section 5.3.3, those sites encountered in the APE that can be evaluated based on the background research and field-collected data will be included in a survey report that details the results of the survey and evaluations, and assesses any adverse effects. Evaluation and management measures for all other sites will be detailed in a Historic Properties Management Plan (HPMP) as part of YCWA's PM&Es, in consultation with tribes and agencies, for management outside of the study. Development and review of the HPMP is not part of this study. Adverse effects are defined as follows:

An adverse effect is found when an undertaking may alter, directly or indirectly, any of the characteristics of a historic property that qualify the property for inclusion in the National Register in a manner that would diminish the integrity of the property's location, design, setting, materials, workmanship, feeling, or association. Consideration shall be given to all qualifying characteristics of a historic property, including those that may have been identified subsequent to the original evaluation of the property's eligibility for the National Register. Adverse effects may include reasonably foreseeable effects caused by the undertaking that may occur later in time, be farther removed in distance or be cumulative (36 CFR § 800.5(a)(1)).

### 5.3.5 Step 5 – Reporting

Licensee will prepare a report at the conclusion of the study that includes the following sections: 1) Study Goals and Objectives; 2) Methods; 3) Results of study and identification of any other non-TCP cultural/ethnographic resources; 4) Discussion, and; 5) Description of Variances from



the FERC-approved study proposal, if any. Maps will be developed that clearly depict the following on USGS 1:24,000 topographic maps: the study areas examined; current inventory coverage in the areas surveyed, including intensity of coverage; and locations of cultural resources identified within the study areas.

Copies of this report will be provided to: the affected Indian tribes; Forest Service; SHPO; CSU, Chico, NEIC; CSU, Sacramento, NCIC; and FERC. Copies without confidential or sensitive information and attachments also will be provided to the Camptonville Historical Society and/or Camptonville Community Service District. Copies of the final report and detailed locations of identified properties may be withheld from public disclosure in accordance with Section 304 (16 U.S.C. 4702-3) of the NHPA (as amended). Concurrence on report recommendations will be sought from SHPO.

As requested by FERC, a draft HPMP will be prepared using the results of the study, in consultation with the affected tribes, TNF, PNF, and the SHPO and included with the Draft License Application. A final HPMP will be included in the Final License Application. Development and review of the HPMP is not part of this study.

## **6.0 Study-Specific Consultation**

YCWA will engage in the following study-specific consultation:

- YCWA will obtain SHPO's concurrence with the APE (Step 1.)
- YCWA will notify and coordinate with potentially affected tribes and Forest Service prior to the start of the field survey to provide the proposed field schedule, obtain necessary permits from the Forest Service, and invite tribal representatives to participate in the survey (Step 3).
- Any NRHP evaluations completed for cultural resources located on lands managed by federal agencies will be provided to the federal agency, as appropriate, and to affected tribes for prehistoric or tribal cultural resources, for review and consultation prior to submittal to SHPO for concurrence (Step 4).
- For any planned discussions or consultation regarding the identification, evaluation, treatment, or disposition of archaeological sites or tribal cultural resources encountered within the APE, YCWA will invite, as appropriate, affected tribes, land-managing agencies, SHPO, and FERC to participate.

## **7.0 Schedule**

Documented historic annual low reservoir levels indicate that New Bullards Bar Reservoir reaches its lowest water levels in November and December, when bad weather may restrict field efforts. YCWA may schedule the field survey at any time the weather permits, but will schedule survey below the high water line of New Bullards Bar Reservoir for the fall to accommodate, to the extent possible, annual, normal drawdowns and low water levels. It is the intention of the YCWA to submit the inventory report for review by agencies, tribes, and SHPO prior to distributing the HPMP for review and comment. Development and review of the HPMP is not

part of this study. YCWA anticipates the schedule to complete the study as follows assuming the FERC issues its Study Determination by September 16, 2011 and the study is not disputed by a mandatory conditioning agency:

Archival Research (Step 1) .....	October 2011 - December 2011
Field Survey (Step 2) .....	November 2011 - April 2012
NRHP Evaluation (Step 3).....	November 2011 - April 2012
Identify/Assess Effects on NR-Eligible Properties (Step 4).....	November 2011 - April 2012
Report Preparation (Step 5) .....	October 2011 - September 2012

## **8.0            Consistency of Methods with Generally Accepted Scientific Practices**

The proposed study methods discussed above are consistent with the study methods followed in several recent relicensing projects. These methods have been accepted by the participating Native American tribes, agencies, and other interested parties associated with those projects. The methods presented in this study plan also are consistent with the ACHP’s guidelines for compliance with the requirements of Section 106 of the NHPA found at 36 CFR 800.

## **9.0            Level of Effort and Cost**

YCWA estimates the cost to complete this study in 2011 dollars is between \$240,000 and \$315,000.

## **10.0          References Cited**

- Advisory Council on Historic Preservation. 2007. *Policy Statement Regarding Treatment of Burial Sites, Human Remains, and Funerary Object*. Washington, D.C.
- Federal Energy Regulatory Commission and Advisory Council on Historic Preservation. 2002. *Guidelines for the Development of Historic Properties Management Plans for FERC Hydroelectric Projects*. Washington D.C.
- Jackson, R., M. Boynton, W. Olsen, and R. Weaver 1988. *California Archaeological Resource Identification and Data Acquisition Program: Sparse Lithic Scatters*. Office of Historic Preservation, Sacramento.
- Jackson, R., T. Jackson, C. Miksicek, K. Roper, and D. Simons. 1994. *Framework for Archaeological Research and Management on the National Forests of the North-Central Sierra Nevada*. Prepared for the USDA Forest Service, Eldorado National Forest.
- King, T. 1998. *Cultural Resource Laws and Practice: An Introductory Guide*. Lanham, MD: AltaMira Press.
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- United States Department of Interior (USDO), National Park Service (NPS) 1983. *Archaeology and Historic Preservation: Secretary of the Interior's Standards and Guidelines in the Federal Register, September 29, 1983 (48FR44716)*. Department of the Interior, Washington, D.C.
- \_\_\_\_\_. 2002. *How to Apply the National Register Criteria for Evaluation*. *National Register Bulletin 15*. Revised for the Internet, <http://www.cr.nps.gov/nr/publications/bulletins/archeology/>. U.S. Department of the Interior, National Park Service, National Register, History, and Education.
- Yuba County Water Agency (YCWA). 2010. Yuba River Development Project Relicensing Pre-Application Document. Yuba County Water Agency, Marysville, CA. <http://www.ycwa-relicensing.com>.

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**ATTACHMENT 12-1A**  
**AREA OF POTENTIAL EFFECTS MAPS**

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