

United States Department of the Interior

NATIONAL PARK SERVICE Yosemite National Park P.O. Box 577 Yosemite, California 95389

IN REPLY REFER TO: L7617 (YOSE-PM)

Memorandum

- To: Jim Roche, Project Manager, Resources Management and Science, Yosemite National Park
- From: Superintendent, Yosemite National Park
- Subject: Notice to Proceed, 2007-097 Wawona South Fork of the Merced River Gage Installation

Your proposed project is an action that has been determined to result in no measurable environmental effects. It is therefore categorically excluded from further National Environmental Policy Act analysis under Categorical Exclusion: DO12 3.4 C(5) - Installation of signs, displays, and kiosks.

Necessary compliance coordination has been completed regarding the National Historic Preservation Act, the Wilderness Act, the Wild and Scenic Rivers Act, and the Endangered Species Act, as applicable. This project clearance is valid providing that you adhere to any conditions that may be stipulated in the enclosed *Categorical Exclusion Form* and associated documents when implementing this project.

//R. Kevin Cann// Michael J. Tollefson

Enclosure (with attachments)

cc: Statutory Compliance File

The signed original of this document is on file at the Environmental Planning and Compliance Office in Yosemite National Park.

<u>8/14/07</u> Date

Categorical Exclusion

(Version: OCT06)

Compliance Tracking Number: 2007-097 PEPC Project Number: 19597

A. PROJECT INFORMATION

Title: Wawona South Fork of the Merced River Gage InstallationLocation: Wawona, Mariposa County, CaliforniaProject Manager: Jim Roche, Resources Management and Science, Yosemite National Park

B. COMPLIANCE DETERMINATION

This project is an action that has been determined to result in no measurable environmental effects. It is therefore categorically excluded from further National Environmental Policy Act (NEPA) analysis under Categorical Exclusion: DO12 3.4 C(5) - Installation of signs, displays, and kiosks.

Necessary compliance coordination has been completed regarding the National Historic Preservation Act, the Wilderness Act, the Wild and Scenic Rivers Act, and the Endangered Species Act, as applicable. Environmental impacts will be negligible or less when the project is implemented with the conditions stipulated under **Project Mitigations and Conditions** in **Section I** at the end of the attached *Environmental Screening Form*.

Additional supporting information for this determination and the stipulated conditions can be found in the following attachments (when checked):

Environmental Screening Form

Preservation Assessment Form (YOSE-XXX)

Wilderness Minimum Requirement Analysis

Wild and Scenic River Section 7 Determination

Other:

C. DECISION

On the basis of the environmental impact information in the statutory compliance file, with which I am familiar, I am categorically excluding the described project from further NEPA analysis. No exceptional circumstances or conditions in DO12 3.5 or 3.6 apply and the action is fully described in DO12, Section 3.4.

//R. Kevin Cann// (acting)

Michael J. Tollefson, Superintendent

8/14/07 Date

Original: Statutory Compliance File cc: Project Proponent

Attachments (2)

The signed original of this document is on file at the Environmental Planning and Compliance Office in Yosemite National Park.

Environmental Screening Form

(Version: NOV06)

Compliance Tracking Number: 2007-097 PEPC Project Number: 19597

A. PROJECT INFORMATION

Title: Wawona South Fork of the Merced River Gage Installation Location: Wawona, Mariposa County, California Project Manager: Jim Roche, Resources Management and Science, Yosemite National Park

B. PROJECT DESCRIPTION AND BACKGROUND

As the lowest major drainage basin in Yosemite National Park, the South Fork of the Merced River is particularly vulnerable to the effects of predicted climatic warming over the next century. Long-term river flow data are needed to effectively manage surface water withdrawals for water supply in the Wawona area (as called for in the 1985 Environmental Assessment for the reconstruction of the Wawona Water System) as well as for water supply predictions further down river outside of the park. Current water resource planning for drought conditions is based on only 10 years of data (1958-1968) and indications are that this is insufficient for understanding drought conditions in the future.

The purpose of this project is to install a permanent United States Geological Survey (USGS) type river gage downstream of Highway 41, on the South Fork of the Merced River. The gage would be located in the vicinity of a former USGS gage site, approximately 985' downstream from the Highway 41 bridge on river right. This gage would measure and transmit the full range of flows on the river. The gage would be installed and maintained by the USGS or Merced Irrigation District with oversight and quality assurance provided by the USGS.

The gage house would be a 4' by 4' by 8' tall metal building resting on a concrete pad on the top of a terrace north of the river. The building will be sided with wooden lap siding similar to that used on the Pohono gage house in Yosemite Valley and painted Wosky brown (standard NPS brown). A 24" by 36" solar panel will be mounted to the south side of the building (or the roof if less conspicuous) using anodized black metal brackets. An antenna will be mounted to a pole attached to the building extending up to 5' above the roof of the building.

Two 2" steel conduits (40' long) would extend from the gage house to the bottom of the river. The conduit would be nested into the riverbed and bank sediments and secured using metal stakes. Two or three staff plates would be installed in the river and up the bank to span the range of flows. A temporary cable tramway would be placed on the foundations of the former tramway at the site during periods of high flows for measurement of peak flows.

Table B1 – Background Information

		Yes	No	N/A	Explanation/Notes
1.	Did NPS staff conduct a site visit? If yes, list attendees. If no, explain.	\square			Resources Management and Science staff.
2a.	Is the project providing compliance for an action associated with but not covered by an approved plan? (Identify the plan and provide a section or page citation.); OR				Wawona Water Treatment Plant Environmental Assessment; Alternative NPS Water Systems; Mitigating Measures; Installation of a Proper Flow Rate Gage.
2b.	Is the project in an approved plan? (Identify the plan and provide a section or page citation.				
2c.	Is the project consistent with that plan?				
2d.	Is the Plan's CE, FONSI, or ROD current?	\boxtimes			
3a.	Are there any interested or affected parties?		\boxtimes		
3b.	Has a diligent effort been made to communicate with them?				
4a.	Are there any affected agencies or tribes?		\boxtimes		
4b.	Has consultation been completed?				

Table B2 – Environmental Screening Form Attachments (provide Attachment letter—A, B, etc.)

		Yes	No	N/A	Explanation/Notes
1.	Maps	\boxtimes			Vicinity map; see Attachment A.
2.	Drawings (e.g., design, construction)		\boxtimes		
3.	Site Plans		\boxtimes		
4.	Photographs	\square			Photos of proposed gage and gage house location; see Attachment B.
5.	Non-NEPA/NHPA Approvals (Explain)		\boxtimes		
6.	Other (Explain)		\boxtimes		

C. ASSESSMENT OF POTENTIAL RESOURCE EFFECTS

	e any impacts possible on the following ources?	Yes	No	N/A	Data Needed to Determine/Notes
1.	Geologic resources: soils, bedrock, streambeds, etc	\boxtimes			Gage house soil disturbance involves a 5' x 5' x 1' area; two conduit lines will be buried 2" x 40' long.
2.	From geohazards		\boxtimes		long.
3.	Air quality		\boxtimes		
4.	Soundscapes	\square			Negligible: temporary noises during gage house installation.
5.	Water quality or quantity		\boxtimes		
6.	Stream flow characteristics		\square		
7.	Marine or estuarine resources			\boxtimes	
8.	Floodplains or wetlands		\boxtimes		
9.	Land use, including occupancy, income, values, ownership, type of use		\bowtie		
	Rare or unusual vegetation – old growth timber, riparian, alpine		\square		
11.	Species of special concern (plant or animal; state or federal listed or proposed for listing) or their habitat		\boxtimes		
12.	Unique ecosystems, biosphere reserves, World Heritage Sites				Yosemite National Park is a World Heritage site; no historic properties would be adversely affected by implementing this project; see Section F, National Historic Preservation Act Checklist, below.
13.	Unique or important wildlife or wildlife habitat		\boxtimes		
14.	Unique or important fish or fish habitat		\boxtimes		
15.	Introduce or promote non-native species (plant or animal)	\square			See Section D. Mandatory Criteria, below.
16.	Recreation resources, including supply, demand, visitation, activities, etc.		\boxtimes		
	Visitor experience, aesthetic resources		\boxtimes		
	Cultural resources including cultural landscapes, ethnographic resources		\boxtimes		
19.	Socioeconomics, including employment, occupation, income changes, tax base, infrastructure		\boxtimes		
20.	Minority and low income populations, ethnography, size, migration patterns, etc.		\boxtimes		
21.	Energy resources		\boxtimes		
22.	Other agency or tribal land use plans or policies		\boxtimes		
23.	Resource, including energy, conservation		\boxtimes		
24	potential			_	
	Urban quality, gateway communities, etc. Long-term management of resources or		\boxtimes		Long term management of resources includes
	land/resource productivity	\square			Long-term management of resources includes monitoring river flow data.
26	Other important environment resources (e.g. geothermal, paleontological resources)?		\square		
	nments, Mitigations and Conditions:				
1.	None				

D. MANDATORY CRITERIA

lf	implemented, would the proposed action:	Yes	No	N/A	Data Needed to Determine/Notes
	Have material adverse effects on public health or safety?		\boxtimes		
2.	Have adverse effects on such unique characteristics as historic or cultural resources; park, recreation, or refuge lands; wilderness areas; wild or scenic rivers; national natural landmarks; sole or principal drinking water aquifers; prime farmlands; wetlands; floodplains; or ecologically significant or critical areas, including those listed on the National Register of Natural Landmarks?				
3.			\boxtimes		
4.	Have highly uncertain and potentially significant environmental effects or involve unique or unknown environmental risks?		\boxtimes		
5.	Establish a precedent for future action or represent a decision in principle about future actions with potentially significant environmental effects?		\boxtimes		
6.	Be directly related to other actions with individually insignificant, but cumulatively significant, environmental effects?				
7.	Have adverse effects on properties listed or eligible for listing on the National Register of Historic Places?		\boxtimes		
8.	Have adverse effects on species listed or proposed to be listed on the List of Endangered or Threatened Species or have adverse effects on designated Critical Habitat for these species?				
9.	Require compliance with Executive Order 11988 (Floodplain Management), Executive Order 11990 (Protection of Wetlands), or the Fish and Wildlife Coordination Act?		\boxtimes		
10.	Threaten to violate a federal, state, local, or tribal law or requirement imposed for the protection of the environment?		\square		
11.	Involve unresolved conflicts concerning alternative uses of available resources (NEPA sec. 102(2)(E)?		\boxtimes		
12.	Have a disproportionate, significant adverse effect on low-income or minority populations (EO 12898)?		\boxtimes		
13.	Restrict access to and ceremonial use of Indian sacred sites by Indian religious practitioners or adversely affect the physical integrity of such sacred sites (EO 130007)?		\boxtimes		
14.	Contribute to the introduction, continued existence, or spread of federally listed noxious weeds (Federal Noxious Weed Control Act)?				Mitigated: see Condition 1, below.
15.	Contribute to the introduction, continued existence, or spread of non-native invasive species or actions that may promote the introduction, growth or expansion of the range of non-native invasive species (EO 13112)?				Mitigated: see Condition 1, below.
16.	Require a permit from a federal, state, or local agency to proceed, unless the agency from which the permit is required agrees that a CE is appropriate?				
17.	Have the potential for significant impact as indicated by a federal, state, or local agency or Indian tribe?		\boxtimes		
18.	Have the potential to be controversial because of disagreement over possible environmental effects?		\boxtimes		
19.	Have the potential to violate the NPS Organic Act by impairing park resources or values?		\boxtimes		

1. Ensure that all equipment and materials brought into the park are free of non-native, invasive plants and animals, and noxious weeds. All staff working on site shall be informed of and follow best management practices for preventing the introduction and spread of non-native, invasive species as described in Division 1 Specifications, Section 1355.

E. SPECIAL STATUS SPECIES CHECKLIST

Within the area of potential effect, are there:	Yes	No	N/A	Data Needed to Determine/Notes		
1. Listed or proposed threatened or endangered species (Federal or State)?		\boxtimes				
2. Species of special concern (Federal or State)?		\boxtimes				
3. Park rare plants or vegetation?		\boxtimes				
4. Potential habitat for any special-status species listed above?		\square				
If "yes" to any of the above questions, a Special-Status Species Checklist must be completed and attached.						
Comments, Mitigations and Conditions:						

1. None

F. NATIONAL HISTORIC PRESERVATION ACT CHECKLIST

Wi	thin the area of potential effect:	Yes	No	N/A	Data Needed to Determine/Notes				
1.	Will there be ground disturbance?	\boxtimes			Gage house includes a 5' x 5' x 1' area; two conduit lines will be buried 2" x 40' long.				
2.	Are there any archeological sites?	\boxtimes			Wawona Archeological District				
3.	Are there any Native American Indian traditional cultural resources?		\boxtimes						
4.	Is there a historic property (a building, structure, feature, or all or any part of an archeological district or site, or a historic district or site, or any associated landscape element) that is listed or eligible for listing on the <i>National Register</i> ?				Wawona Archeological District; the assessment of effect is "No Adverse Effect;" see Condition 1, below and the attached XXX.				
5.	Is there a National Historic Landmark?		\boxtimes						
6.	Is there a structure(s) on the park's <i>List of Classified Structures</i> ?		\square						
7.	Is there any cultural resource requiring an evaluation of eligibility as a historic property under NHPA, Section 106, before an affect determination can be made?								
8	Would there be alteration of any historic property or associated landscape element covered by 2-7, above?								
If '	'yes" to any of the above, then an Assessment of	of Effe	cts fo	rm (Y	OSE-XXX) must be completed and attached.				
Mi	tigations and Conditions:								
1	1 Schedule a site with History Architecture and Landssone Drough and Dark Archeology Office to								

1. Schedule a site visit with History, Architecture, and Landscape Branch and Park Archeology Office to determine specific location for equipment to avoid impact to cultural resources.

G. WILDERNESS ACT CHECKLIST

Is the proposed project:		No	N/A	Data Needed to Determine/Notes		
1. Within designated Wilderness?		\boxtimes				
2. Within a Potential Wilderness Addition?		\boxtimes				
If "yes" to either of the above, then a Wilderness Minimum Requirements Analysis must be completed and attached.						
Mitigations and Conditions:						
1. None						

H. WILD AND SCENIC RIVERS ACT CHECKLIST

Does the prop	oosed project:	Yes	No	N/A	Data Needed to Determine/Notes			
	a wild and scenic river corridor? ame the river(s)	\boxtimes			South Fork of the Merced River			
	the bed and banks AND affect ow of the river?		\square					
3. Potentiall	y affect water quality of the area?		\boxtimes					
for which	or other wise change the values the river was designated as a Scenic River? If "yes", explain.		\boxtimes					
5a. Fall on a t River?	ributary of a Wild and Scenic		\bowtie					
•	es", will the project affect the Scenic River corridor?			\boxtimes				
•	es", will the project unreasonably cenic, recreational, or fish and alues?			\boxtimes				
If "yes" to que	If "yes" to questions 2, 5b, or 5c, then a WSRA Section 7 determination must be completed and attached.							
Mitigations a	Mitigations and Conditions:							
1. None								

I. NEPA Analysis and Approval Conditions

When implemented as detailed in the project description and following all Project Mitigations and Conditions listed below, this project meets the terms and conditions of a categorical exclusion to NEPA.

Applicable Categorical Exclusion:

DO12 3.4 C (5) - Installation of signs, displays, and kiosks.

Project Mitigations and Conditions:

- 1. Ensure that all equipment and materials brought into the park are free of non-native, invasive plants and animals, and noxious weeds. All staff working on site shall be informed of and follow best management practices for preventing the introduction and spread of nonnative, invasive species as described in Division 1 Specifications, Section 1355.
- 2. Schedule a site visit with History, Architecture, and Landscape Branch and Park Archeology Office to determine specific location for equipment to avoid impact to cultural resources. (Resource Management and Science)

This project has been reviewed in accordance with the above criteria and it has been determined that the project will result in no or minimal environmental effects. Therefore, it is categorically excluded from further environmental review required under the National Environmental Policy Act. Additionally, the necessary compliance coordination has been completed with regard to the National Historic Preservation Act, the Wilderness Act, the Wild and Scenic Rivers Act, and the Endangered Species Act.

//Renea Kennec//	8/14
Compliance Specialist	Date
//Mark A. Butler//	8/14/0
Compliance Program Manager	Date
//Bill Delaney//	8/14
Chief, Project Management	Da

Chief, Project Management

The signed original of this document is on file at the Environmental Planning and Compliance Office in Yosemite National Park.

Attachment A

Error! Objects cannot be created from editing field codes.



Attachment B

Proposed gage pool location looking upstream. Existing staff gage used by utilities personnel is visible by boulder. The gage house would be located to the left behind the large willow and on top of the bank.



Proposed gage location: gage pool adjacent to large boulder; gage house location on top of opposite bank.

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Preservation Assessment Form (YOSE XXX)

(Version: AUG06)

Compliance Tracking Number: 2007-097 PEPC Project Number: 19567

A. DESCRIPTION OF UNDERTAKING

Title: Wawona South Fork of the Merced River Gage Installation

Project Location and Area of Potential Effect:

Wawona, Mariposa County, California

Wawona South Fork

Project Manager: Jim Roche, Resources Management and Science, Yosemite National Park

Project Description: As the lowest major drainage basin in Yosemite National Park, the South Fork of the Merced River is particularly vulnerable to the effects of predicted climatic warming over the next century. Long-term river flow data are needed to effectively manage surface water withdrawals for water supply in the Wawona area (as called for in the 1985 Environmental Assessment for the reconstruction of the Wawona Water System) as well as for water supply predictions further down river outside of the park. Current water resource planning for drought conditions is based on only 10 years of data (1958-1968) and indications are that this is insufficient for understanding drought conditions in the future.

The purpose of this project is to install a permanent United States Geological Survey (USGS) type river gage downstream of Highway 41, on the South Fork of the Merced River. The gage would be located in the vicinity of a former USGS gage site, approximately 985' downstream from the Highway 41 bridge on river right. This gage would measure and transmit the full range of flows on the river. The gage would be installed and maintained by the USGS or Merced Irrigation District with oversight and quality assurance provided by the USGS.

The gage house would be a 4' by 4' by 8' tall metal building resting on a concrete pad on the top of a terrace north of the river. The building will be sided with wooden lap siding similar to that used on the Pohono gage house in Yosemite Valley and painted Wosky brown (standard NPS brown). A 24" by 36" solar panel will be mounted to the south side of the building (or the roof if less conspicuous) using anodized black metal brackets. An antenna will be mounted to a pole attached to the building extending up to 5' above the roof of the building.

Two 2" steel conduits (40' long) would extend from the gage house to the bottom of the river. The conduit would be nested into both the riverbed and bank sediments, and secured using metal stakes. Two or three staff plates would be installed in the river and up the bank to span the range of flows. A temporary cable tramway would be placed on the foundations of the former tramway at the site during periods of high flows for measurement of peak flows.

1. Attached Sensitive Information**			No	Explanation/Source/Notes
a.	Maps	\boxtimes		CR GIS Map
b.	Drawings		\boxtimes	
с.	Site Plans		\boxtimes	
d.	Photographs		\boxtimes	
e.	Sample		\boxtimes	
f.	List of Materials		\boxtimes	
g.	Other (Explain)		\boxtimes	

** Sensitive documents not for duplication or distribution beyond park management, subject matter experts, and the project statutory compliance file.

B. DESCRIPTION OF EFFECTS

		Yes	No	N/A	Explanation/Notes
1.	Has the Area of Potential Effect been				VOLE 1000D
	surveyed to identify historic properties?	\bowtie			YOSE 1992D
	If Yes, provide reference for the Survey (s).				Wawona Archeological District
	a. Would the proposed action affect a				
	known historic property?				
2.	List all Historic Properties in the Area of	Affec	ted?		
	Potential Effect:	Yes	No		Explanation/Notes
	a. Archeological Sites	\boxtimes		Grou	nd disturbance.
	b.		H	Giu	nd distuibulee.
	с.	Н	H		
	с.				
2	List uses were in the Area of Determini		4.19		
з.	List resources in the Area of Potential Effect to which American Indians attach	Affec	teu :		Explanation/Notag
	cultural and religious significance:	Yes	No		Explanation/Notes
	cultural and religious significance.			Gago	and house will not impact Native American
	a. Unknown		\boxtimes		ral and religious resources or access.
	b.			cuitu	rai and rengious resources of access.
	с.	H	H		
4		\$7	NT-		
4.	The proposed action will:	Yes	No	N/A	Explanation/Note
	• Destroy, remove, or alter features or		\boxtimes		
	elements from a historic structure				
	 Replace historic features/elements in kind Add nonhistoric features/elements to a 		\square		
	Add hollinstoric reatures/elements to a historic structure		\boxtimes		
	Alter or remove features/elements of a				
	historic setting or environment (including		\bowtie		
	terrain)				
	Add nonhistoric features/elements				
	(including visual, audible, or atmospheric)	\boxtimes			Gage house will add a structure to the
	to a historic setting or cultural landscape				existing landscape.
	• Disturb, destroy, or make archeological				
	resources inaccessible, or alter associated	\boxtimes			Project entails ground disturbance during
	terrain				leveling and trenching for conduit.
	• Disturb, destroy, or make ethnographic				
	resources inaccessible, or alter associated		\boxtimes		
	terrain				
	• Begin or contribute to the deterioration of				
	historic fabric, terrain, setting, landscape		\boxtimes		
	elements, or archeological or				
	ethnographic resources				
	 Involve a real property transaction 				
	affecting historic cultural properties (i.e.,		\boxtimes		
	the exchange, sale, or lease of land or				
	structures)				
	• Potentially affect presently unidentified		\square		
	historic resources				
	• Other				

5. Describe any measures that are incorporated as part of this project that will be taken to prevent or minimize loss or impairment of prehistoric or historic fabric, setting, integrity, or data:

Checklist prepared by: Jeannette Simons Title: Historic Preservation Officer Date: 08/07/07

C. SPECIALIST SECTION

Specialists: Your comments here (or attached) show that you have reviewed this proposal for conformity with requirements of *National Historic Preservation Act, Section 106*; with the 1995 *Servicewide Programmatic Agreement* (if applicable); with applicable parts of the *Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation*; with the NPS *Management Policies* and *Cultural Resource Management Guideline*; and have given your best professional advice about this project and the issues relevant to the Section 106 process, including identification and evaluation of historic properties and further consultation needs.

Archeologist Comments:	Name: Laura Kirn	Date: 8/8/07
Ground Disturbance Involved Assessment of Effect: "No Adverse Recommended Conditions:	Yes: No: Effect''	
Signature of Archeologist: //Laura	Kirn//	
Cultural Anthropologist Comments: Assessment of Effect: Recommended Conditions: Signature of Cultural Anthropologis	Name: Sonny Montague t:	Date:
Curator Comments:	Name: Jonathan Bayless	Date:
Assessment of Effect: Recommended Conditions:		

Signature of Curator: _____

Historian	Name: Charles Palmer	Date:		
Comments:				
Assessment of Effect:				
Recommended Conditions:				
Signature of Historian:				
Historical Architect	Name: Sueann Brown	Date: 8/8/07		
Comments:				
Assessment of Effect: "No Adverse Effect"				
Recommended Conditions:				
Signature of Historical Architect:	//Sueann Brown//			
Historical Landscape Architec Comments:	t Name: Dave Humphrey	Date: 8/8/07		
Comments.				
Assessment of Effect: "No Advers	e Effect''			
Recommended Conditions:				

Signature of Historical Landscape Architect: //David T. Humphrey//

Preservation Specialist Comments:	Name: Rod Kennec	Date: 8/8/07			
comments.					
Assessment of Effect: "No Effect"	,				
Recommended Conditions: Recom	Recommended Conditions: Recommended Conditions				
Signature of Preservation Specialist: //Rodney B. Kennec//					
Native American Liaison Comments:	Name: Jeannette Simons	Date:			
Comments.					
Assessment of Effect:					
Recommended Conditions:					
Signature of Native American Liaison:					
<enter specialist="" title=""></enter>	Name:	Date:			
Comments:					
Assessment of Effect:					
Recommended Conditions:					

Signature of <Enter Specialist's Title>: _____

D. RESOURCES MANAGEMENT AND SCIENCE DIVISION AND PARK 106 COORDINATOR REVIEWS AND RECOMMENDATIONS

1. Review by specialists: The appropriate subject-matter experts have reviewed the project and entered their comments and recommendations in Section C, above.

The foregoing assessment is adequate: the proposed action is consistent with all applicable NPS management policies, standards, guidelines, or US DOI standards and guidelines, Rehabilitation of Historic Buildings, or others, and incorporates measures to avoid Adverse Effects.

Reviewed and Accepted by:

Signature: //Niki Stephanie Nicholas// Date: 8/8/07 Chief of Resources Management & Science Division

2. Compliance Requirements: The following is the park's assessment of Section 106 process needs and requirements for this undertaking.

Standard 36 CFR Part 800 Consultation

Consultation under 36 CFR is needed subsequent to the preparation of this form and its review by appropriate historic resource management advisors.

Undertaking related to the 1995 NPS Programmatic Agreement

The above action meets all conditions for a programmatic exclusion under Stipulation IV. A of the 1995 NPS programmatic agreement, and is listed in Stipulation IV. B, as:

3. Installation of Environmental Monitoring Units (such as those for water and air quality).

□ Plan-Related Undertaking

Consultation and review of the proposed undertaking were completed in the context of a plan review process, in accordance with the 1995 NPS programmatic agreement and 36 CFR Part 800.

Undertaking Related to Another Agreement

The proposed undertaking is covered for Section 106 purposes under a document such as a statewide agreement written in accordance with 37 CFR Part 800.7 or counterpart regulations.

Agreement: <Enter Agreement Information>

□ Flood-Recovery Related Undertaking

The proposed undertaking is covered for Section 106 purposes under the letter-based agreement between the NPS, the State Historic Preservation Office, and the Council for Historic Preservation for "Highwater 97" flood repair and recovery

Undertaking Related to the 1999 Yosemite Programmatic Agreement

The proposed undertaking is covered for Section 106 purposes under the park's 1999 programmatic agreement for planning, design, construction, operations and maintenance; the undertaking meets the stipulations identified in Article VII.C.2.

3. Assessment of Effects: No Adverse Effect

4. Project Stipulations and Conditions

Following are listed any stipulations or conditions necessary to ensure that the assessment of effects above is consistent with 36 CFR 800 criteria of effect or to mitigate potential adverse effects:

a. Schedule a site visit with History, Architecture, and Landscape Branch and Park Archeology Office to determine specific location for equipment to avoid impact to cultural resources.

Recommended by Park Section 106 Coordinator:

Name:Jeannette SimonsTitle:Historic Preservation Officer

Signature: //Jeannette Simons// Date: 8/13/07

E. SUPERINTENDENT'S APPROVAL

The proposed work conforms to NPS Management Policies and NPS-28 and I approve the recommendations, stipulations, and conditions noted in Section B of this form.

Signature of Superintendent: //R. Kevin Cann//

Michael J. Tollefson

Date: <u>8/14/07</u>

The signed original of this document is on file at the Environmental Planning and Compliance Office in Yosemite National Park.

Wild and Scenic Rivers Act – Section 7 Analysis Form

(Version: AUG06)

Compliance Tracking Number: 2007-097 PEPC Project Number: 19597

Merced Wild And Scenic River

Wawona South Fork Of The Merced River Gage Installation, Merced River, Yosemite National Park

The Merced River in Yosemite National Park is a component of the National Wild and Scenic Rivers System. Projects that involve construction in the bed or on the banks of the Merced River are water resources projects that require review under Section 7 of the Wild and Scenic Rivers Act. The installation of a permanent river gage that is within the bed and banks of the South Fork of the Merced Wild and Scenic River; therefore, this gage installation must not intrude upon or unreasonably diminish the scenic, recreational, and fish and wildlife values present in the area on the date the Merced River was designated as a component of the Wild and Scenic Rivers System.

A. PROJECT INFORMATION

Title: Wawona South Fork of the Merced River Gage Installation

Location: Wawona, Mariposa County, California

Project Manager: Jim Roche, Resources Management and Science, Yosemite National Park

Project Description: As the lowest major drainage basin in Yosemite National Park, the South Fork of the Merced River is particularly vulnerable to the effects of predicted climatic warming over the next century. Long-term river flow data are needed to effectively manage surface water withdrawals for water supply in the Wawona area (as called for in the 1985 Environmental Assessment for the reconstruction of the Wawona Water System) as well as for water supply predictions further down river outside of the park. Current water resource planning for drought conditions is based on only 10 years of data (1958-1968) and indications are that this is insufficient for understanding drought conditions in the future.

The purpose of this project is to install a permanent United States Geological Survey (USGS) type river gage downstream of Highway 41, on the South Fork of the Merced River. The gage would be located in the vicinity of a former USGS gage site, approximately 985' downstream from the Highway 41 bridge on river right. This gage would measure and transmit the full range of flows on the river. The gage would be installed and maintained by the USGS or Merced Irrigation District with oversight and quality assurance provided by the USGS.

The gage house would be a 4' by 4' by 8' tall metal building resting on a concrete pad on the top of a terrace north of the river. The building will be sided with wooden lap siding similar to that used on the Pohono gage house in Yosemite Valley and painted Wosky brown (standard NPS brown). A 24" by 36" solar panel will be mounted to the south side of the building (or the roof if less conspicuous) using anodized black metal brackets. An antenna will be mounted to a pole attached to the building extending up to 5' above the roof of the building.

Two 2" steel conduits (40' long) would extend from the gage house to the bottom of the river. The conduit would be nested into the riverbed and bank sediments and secured using metal stakes. Two or three staff plates would be installed in the river and up the bank to span the range of flows. A temporary cable tramway would be placed on the foundations of the former tramway at the site during periods of high flows for measurement of peak flows.

ANALYSIS OF POTENTIAL IMPACTS

Impacts and Mitigations:

This section identifies each potential impact, emphasizing those affecting river "Outstandingly Remarkable Values", and discusses its relationship to and potential impact on the river and how each impact will be avoided or mitigated. Be thorough, providing appropriate notations about the extent (e.g., quantities of materials affected or released, number of individuals affected, square meters affected), duration (e.g., temporary—give length of time, or permanent), and intensity (none, negligible, minor, moderate, major) of the potential impact.

The primary impacts resulting from the permanent installation of the gage house would be to the scenic values of this segment of the Merced River. The installation would be visually obtrusive and would result in minor impacts to the scenic values. The gage house needs to be constructed high enough on the river bank to avoid inundation by peak flows. This location could be inundated by extreme flows. The gage house would be 8' tall and would be similar in appearance to the Pohono gage house in Yosemite Valley. The total impacted area of the gage house would be approximately 16 square feet with an antenna mounted on a pole extending 5' from the roof and a solar panel mounted on the side of the gage house. The gage house would be visually obtrusive from Highway 140. Installation of the gage house constitutes the minimum installation necessary to manage surface water withdrawls in the Wawona area and obtain the long-term river flow data needed to plan for drought conditions in the future.

The following mitigations would be applied to this project:

1. A site visit will be conducted prior to the installation to identify the location of the above ground structure and to determine if archeological monitoring is necessary.

2. The building's appearance would be similar to that of existing Merced River gage houses.

Summary of Impacts

TurbidityTemperature

Nutrient availability

Section 7 Considerations	Short Term Impacts	Long Term Impacts
 Free flow characteristics Channel width/depth Vertical drop Channel form 	• None	• None
Water Quality	• None	• None

Table 1. Project Impacts on the River's Free Flow and Water Quality

Table 2. Project Impacts on the Outstandingly Remarkable Values for which the River was Designated Wild and Scenic

River ORVs	Project Impacts	
Scenic	• This project adds a small permanent structure in an otherwise fairly undeveloped river segment. The structure will be visible from Highway 140. This constitutes a minor impact to scenic qualities of this river segment.	
Geologic Processes/Conditions	• None	
Recreation	• None	
Biological	• None	
Cultural	• The structure's appearance would be consistent with existing gage houses on the Merced River. Final structure placement will be approved by the History, Architecture and Landscape staff.	
Hydrologic Processes	• None	

B. SECTION 7 DETERMINATION

Although within the bed and banks and designated corridor of the Merced Wild and Scenic River the proposed project will not intrude on or unreasonably diminish the scenic, geologic process, recreational, biological, cultural, or hydrologic process values present in the area on the date the Merced River was designated a component of the Wild and Scenic Rivers System.

//Heather McKenny//	8/13/07
Recommended by Heather McKenny, Environmental Compliance Specialist	date

//*R. Kevin Cann//* Approved by Michael Tollefson, Superintendent 8/14/07 date

The signed original of this document is on file at the Environmental Planning and Compliance Office in Yosemite National Park.