

**State of California  
The Resources Agency  
DEPARTMENT OF WATER RESOURCES**



**2007  
PROJECT CHANNEL REPORT**

**INSPECTION OF  
FLOOD CONTROL PROJECT CHANNELS ON THE  
SACRAMENTO AND SAN JOAQUIN RIVERS AND  
THEIR TRIBUTARIES AND THE TRUCKEE RIVER**

**Prepared By The  
Flood Operations Branch  
Flood Project Inspection Section**

**STATE OF CALIFORNIA**  
**Arnold Schwarzenegger, Governor**

**THE RESOURCES AGENCY**  
**Mike Chrisman, Secretary**

**DEPARTMENT OF WATER RESOURCES**  
**Lester Snow, Director**

**Division of Flood Management**  
**Rod Mayer, Chief**

**This report was prepared**  
**Under the direction of**

**Jeremy Arrich, Branch Chief..... Flood Project Integrity & Inspection Branch**

And

**Jim Eckman, Section A Chief .....Flood Project Integrity & Inspection Branch**

By

**Herman Phillips ..... Water Resources Associate Engineer**

Assisted by

**Robert Duffey .....Water Resources Tech II**  
**Mark Soto .....Water Resources Tech II**  
**Gerald Snow .....Water Resources Tech II**  
**Richard E. Willoughby. ....Water Resources Tech II**  
**Clay Thomas.....Water Resources Tech II**  
**John Williamson.....Water Resources Tech II**

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## **INTRODUCTION**

**This is a report of the inspection of flood control project channels on the Sacramento, San Joaquin rivers and their tributaries and the Truckee River. The inspected channels are not confined by project levees. The purpose of the inspection is to identify and report to the constructing authority and the maintaining agency any conditions, which may diminish channel capacity. In general, maintaining the channels to the condition that existed after the completion of the initial construction will preserve their flood flow characteristics. The standard of comparison for the inspection is, therefore, the condition immediately after construction.**

**The U.S. Army Corps of Engineers and the State of California constructed the improved channels and floodways included herein. The constructing authority issued operation and maintenance manuals to the maintaining agency. Maintaining agencies are local agencies or the State of California. These agencies agreed to be responsible for maintenance at the time of project construction or at a later time. The State conducts periodic inspections of the quality of the maintenance accomplished by the maintaining agencies, and reports its findings to these agencies. The Division of Flood Management, Flood Operations Branch, and Flood Project Inspection Section perform the inspections on behalf of The Reclamation Board.**

## **CHAPTER I**

# **PROJECT CHANNELS INSPECTED ON THE SACRAMENTO RIVER AND TRIBUTARIES 2007**

**MODOC COUNTY  
August 2007**

**ASH CREEK  
(Maintained by Adin Community Services District)**

**In August 2007, an inspection was made of the Ash Creek Channel. Project channel limits begin at the gauging station upstream of State Highway 299 and extend downstream for 1.0 mile. The entire one-mile was inspected. The photos on the following pages are typical of, but do not show all the growth in the channel. Evidence of previously moderate to heavy erosion has occurred along both banks downstream of Ash Street. The log dam located at the downstream boundary was replaced in October 1999 with a concrete dam and fish ladder by the Department of Fish and Game. The District has an excellent maintenance program.**

# MODOC COUNTY

## August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
ASH CREEK

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions	X			A There are minimal obstructions or vegetation blocking the channel
				M The channel is obstructed by minor log jams, snags or vegetation.
				U Obstructions or vegetation growth have obstructed over 20% of the channel.
2. Encroachments	X			A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
				M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks				A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
				M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling	X			A No shoaling present.
				M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion				A No erosion or horizontal deviation observed.
		X		M Erosion gullies greater than 15 cm (6 inches deep). Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot ) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A - Acceptable:** The rated item is in acceptable condition, with no deficiencies, and will function as designed and intended during the next flood event. **M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency. **U-Unacceptable:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

Overall Rating

A

2007 CHANNEL REPORT

**MODOC COUNTY  
August 2007**

**ASH CREEK**



**Upstream from Main Street (Highway 299) towards the gauging station**



**Downstream from Main Street (Hwy. 299) at the Ash St. low water crossing**

**2007 CHANNEL REPORT**

**MODOC COUNTY  
August 2007**

**ASH CREEK**



**Downstream from Ash Street, moderate tree growth and bank erosion**



**Downstream at a sharp left bend moderate erosion on both banks**

**MODOC COUNTY  
August 2007**

**ASH CREEK**



**Upstream from the downstream limit**



**Dam with fish ladder and metal walkway, constructed Oct. 1999 by the Dept. of Fish and Game**

**2007 CHANNEL REPORT**

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**MODOC COUNTY  
August 2007**

**DRY CREEK  
(Maintained by Adin Community Services District)**

**In August 2007, an inspection was made of the Dry Creek channel. The project channel begins at the intersection of Adin and Cedar Streets in Adin and extends downstream for 0.2 miles to its confluence with Ash Creek. The entire 0.2 miles was inspected. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show, all of the growth in the channel. There is light to moderate willow growth along the entire reach of the channel.**

# MODOC COUNTY

## August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
**DRY CREEK**

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions	X			A There are minimal obstructions or vegetation blocking the channel
				M The channel is obstructed by minor log jams, snags or vegetation.
				U Obstructions or vegetation growth have obstructed over 20% of the channel.
2. Encroachments				A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
	X			M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks				A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
				M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling				A No shoaling present.
				M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion	X			A No erosion or horizontal deviation observed.
				M Erosion gullies greater than 15 cm (6 inches deep. Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot ) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in acceptable condition, with no deficiencies, and will function as designed and intended during the next flood event. **M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency. **U-Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

Overall Rating

A

2007 CHANNEL REPORT

**MODOC COUNTY  
August 2007**

**DRY CREEK**



**Downstream at Cedar Street moderate growth in channel**



**Upstream at Cedar Street growth in channel**

**2007 CHANNEL REPORT**

**MODOC COUNTY  
August 2007**

**DRY CREEK**



**Downstream from Main Street (Highway 299), moderate growth in channel**



**Upstream from Main street (highway 299), moderate growth in channel**

**2007 CHANNEL REPORT**

# **SACRAMENTO RIVER AND TRIBUTARIES**

## **August 2007**

### **McClure CREEK** **(Maintained by Tehama County)**

**In August 2007, an inspection was made of the McClure Creek channel. The project channel begins 200 feet upstream of the extension of Fairfield Avenue and extends downstream 1.7 miles to 3,700 feet downstream of Road 99W. The views of the channel are from road intersections or crossings and at random distances measured from upstream of the Road 99W Bridge. The photos on the following pages are typical of, but do not show, all of the growth in the channel. The channel is clear, although in some areas berry vines are beginning to encroach into the channel. The channel will easily carry the required capacity. Clearing of the entire channel was completed in 1996. Satisfactory maintenance program.**

**2007 CHANNEL REPORT**

# SACRAMENTO RIVER AND TRIBUTARIES

## August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
**McClure CREEK**

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions				A There are minimal obstructions or vegetation blocking the channel
		X		M The channel is obstructed by minor log jams, snags or vegetation.
				U Obstructions or vegetation growth have obstructed over 20% of the channel.
2. Encroachments		X		A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
				M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks				A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
				M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling				A No shoaling present.
		X		M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion	X			A No erosion or horizontal deviation observed.
				M Erosion gullies greater than 15 cm (6 inches deep. Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot ) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event.

**M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency.

**U-Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

**Overall Rating**

**A**

**2007 CHANNEL REPORT**

**SACRAMENTO RIVER AND TRIBUTARIES  
August 2007**

**McClure CREEK**



**Upstream from extension of Truckee Avenue**



**Downstream from extension of Truckee Avenue**

**2007 CHANNEL REPORT**

**SACRAMENTO RIVER AND TRIBUTARIES  
August 2007**

**McClure CREEK**



**Upstream from Highway 99 W bridge**



**Downstream from Highway 99 W bridge**

**2007 CHANNEL REPORT**

**SACRAMENTO RIVER AND TRIBUTARIES  
August 2007**

**McClure CREEK**



**Upstream from Hamilton Road**



**Downstream from Hamilton Road**

**2007 CHANNEL REPORT**

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**2007 CHANNEL REPORT**

# **SACRAMENTO RIVER AND TRIBUTARIES**

## **August 2007**

### **SALT CREEK** **(Maintained by Tehama County)**

**In August 2007, an inspection was made of the Salt Creek channel. The project channel begins 1.6 miles upstream of the Sacramento River and extends downstream 1.6 miles to Salt Creek's confluence with the Sacramento River. Inspection was limited to breaks in the dense vegetation, measured randomly with the vehicle distance meter. The photos on the following pages are typical of, but do not show all of the growth in the channel. Vegetation on both banks is dense and makes visual inspection difficult. Numerous downed trees and piles of debris in the channel should be removed and the channel should be cleared of vegetal growth before the next flood season. Little or no maintenance has been performed on this channel for the past several years. Tehama County needs to develop a maintenance program for this channel.**

# SACRAMENTO RIVER AND TRIBUTARIES

## August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
**SALT CREEK**

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions				A There are minimal obstructions or vegetation blocking the channel
				M The channel is obstructed by minor log jams, snags or vegetation.
			X	U Obstructions or vegetation growth have obstructed over 20% of the channel.
2. Encroachments				A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
				M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
			X	U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks				A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
				M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling				A No shoaling present.
				M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
			X	U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion				A No erosion or horizontal deviation observed.
				M Erosion gullies greater than 15 cm (6 inches deep). Horizontal deviation not more than 1 foot from the designed grade or cross section.
			X	U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot ) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event.  
**M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency. **U- Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

Overall Rating

U

2007 CHANNEL REPORT

**SACRAMENTO RIVER AND TRIBUTARIES  
August 2007**

**SALT CREEK**



**Downstream of low water crossing logs and dense vegetation is encroaching in the channel**



**Down stream approximately 200 feet of erosion along the right bank**

**2007 CHANNEL REPORT**

**SACRAMENTO RIVER AND TRIBUTARIES  
August 2007**

**SALT CREEK**



**Logs and dense vegetation needs to be removed from channel**



**Upstream, approximately 2800 feet from the downstream limit  
Dense vegetation on both banks**

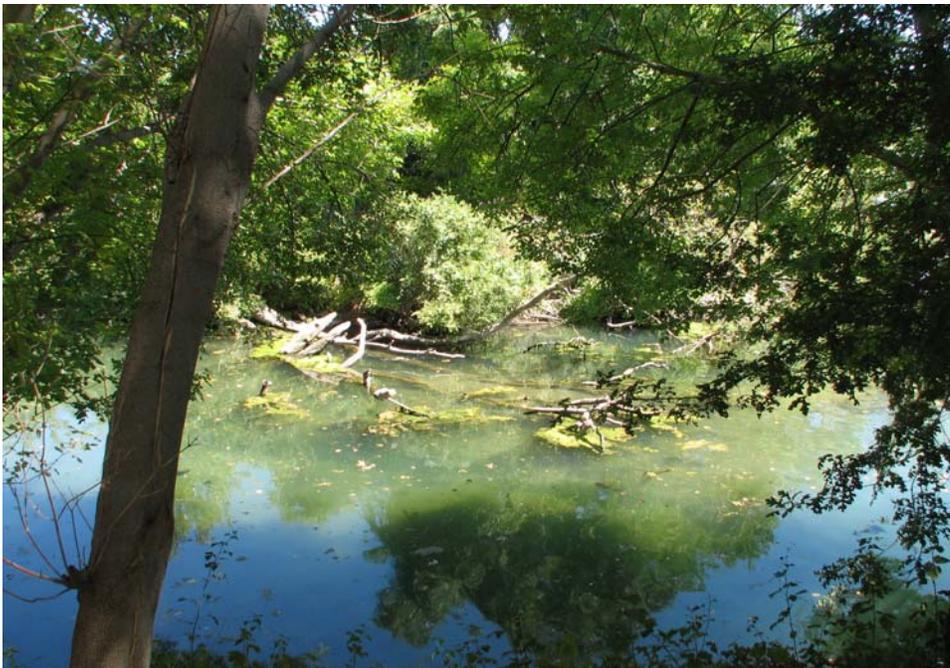
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**SACRAMENTO RIVER AND TRIBUTARIES  
August 2007**

**SALT CREEK**



**Upstream, approximately 700 feet upstream of the downstream limit  
Dense vegetation along both banks**



**Downstream, approximately 700 feet upstream from the confluence with the  
Sacramento River**

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**2007 CHANNEL REPORT**

# **SACRAMENTO RIVER AND TRIBUTARIES**

## **August 2007**

### **BIG CHICO CREEK** **(Maintained by City of Chico)**

**In August 2007, an inspection was made of the Big Chico Creek channel. The project channel begins at the Big Chico Creek Control Structure and extends 22.0 miles downstream to Big Chico Creek's confluence with the Sacramento River. Only 15 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all of the growth in the channel. Heavy amounts of vegetation exist along both banks of this channel. Vines extend across the channel at various locations. Little or no maintenance has been performed for the past several years. Thinning and removal of vegetation upstream of Manzanita Road and removal of snags on the right bank below the extension of Forest Avenue needs to be done before flood season.**

# SACRAMENTO RIVER AND TRIBUTARIES

## August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
**BIG CHICO CREEK**

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions				A There are minimal obstructions or vegetation blocking the channel
				M The channel is obstructed by minor log jams, snags or vegetation.
			X	U Obstructions or vegetation growth have obstructed over 20% of the channel.
2. Encroachments				A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
		X		M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks	X			A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
				M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling				A No shoaling present.
		X		M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion				A No erosion or horizontal deviation observed.
		X		M Erosion gullies greater than 15 cm (6 inches deep. Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot ) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event.

**M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency. **U-**

**Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

### 2007 CHANNEL REPORT

Overall Rating

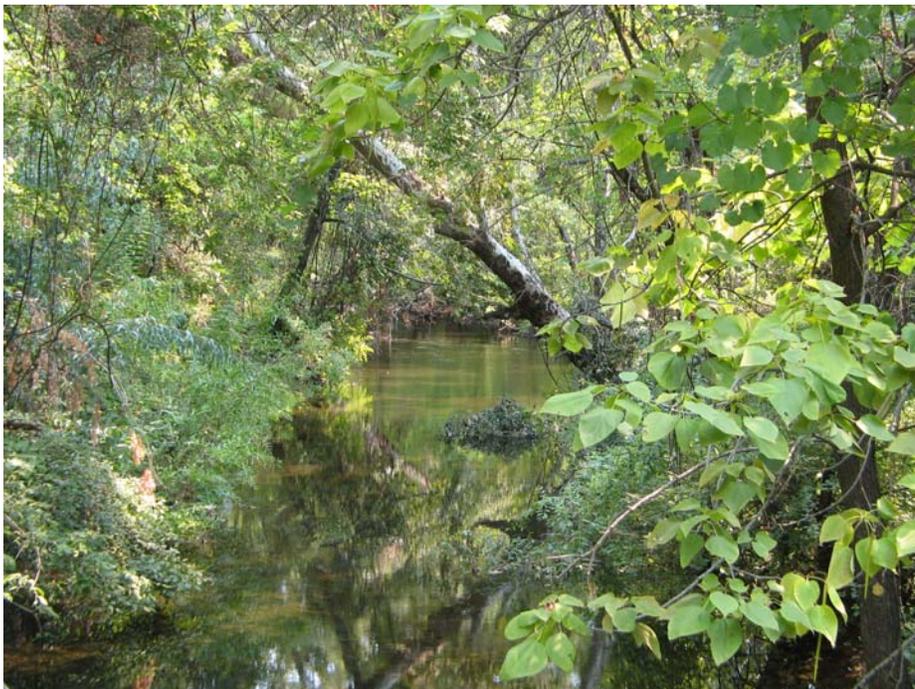
M

**SACRAMENTO RIVER AND TRIBUTARIES  
August 2007**

**BIG CHICO CREEK**



**Downstream from the Big Chico Creek Control Structure**



**Upstream from bridge near Forest Avenue heavy growth along both banks**

**2007 CHANNEL REPORT**

**SACRAMENTO RIVER AND TRIBUTARIES  
August 2007**

**BIG CHICO CREEK**



**Upstream from Highway 99 heavy growth along both banks**



**Downstream from Highway 99 dense vegetation in channel**

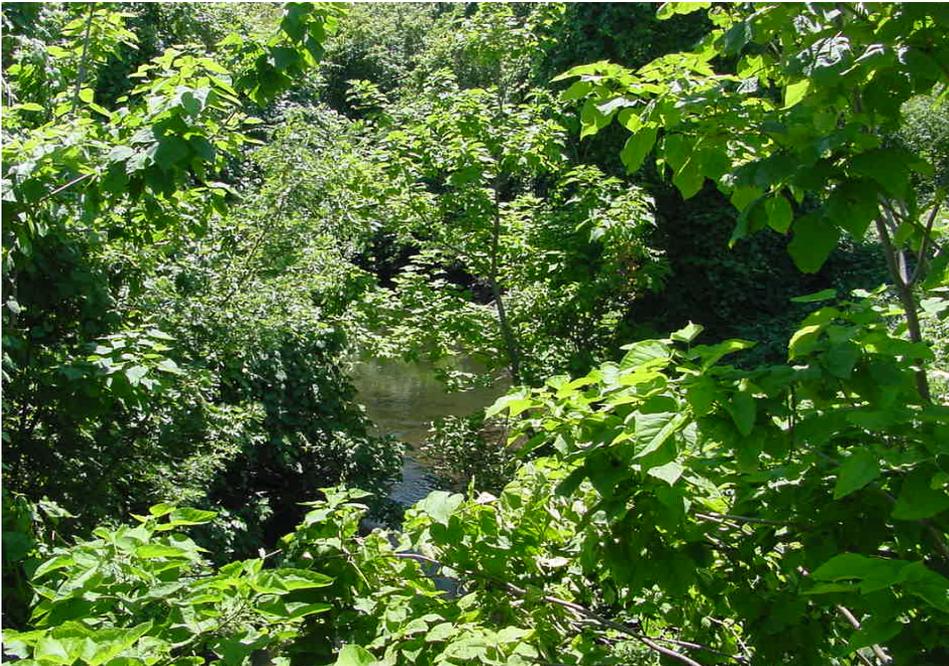
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**SACRAMENTO RIVER AND TRIBUTARIES  
August 2007**

**BIG CHICO CREEK**



**Upstream from the Esplanade heavy growth on both banks**



**Downstream from Highway 32 heavy growth on both banks**

**2007 CHANNEL REPORT**

**SACRAMENTO RIVER AND TRIBUTARIES  
August 2007**

**BIG CHICO CREEK**



**Upstream approximately 500 feet upstream  
of the confluence with the Sacramento River**



**Downstream towards the confluence with the Sacramento River**

# **SACRAMENTO RIVER AND TRIBUTARIES**

## **August 2007**

### **LINDO CHANNEL AND SANDY GULCH** **(Maintained by State of California)**

In August, 2007, an inspection was made of Lindo Channel and Sandy Gulch. The project channel begins at the Lindo Channel Diversion Structure and extends downstream 13.0 miles to the channel's confluence with Big Chico Creek. Only 10.0 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all of the growth in the channel. The portion of the channel from Manzanita Avenue to Big Chico Creek has heavy vegetation along both banks, but the channel is clear. Small growth in channel should be removed.

# SACRAMENTO RIVER AND TRIBUTARIES

## August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
**LINDO CHANNEL**

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions				A There are minimal obstructions or vegetation blocking the channel
				M The channel is obstructed by minor log jams, snags or vegetation.
			X	U Obstructions or vegetation growth have obstructed over 20% of the channel.
2. Encroachments				A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
		X		M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks	X			A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
				M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling				A No shoaling present.
		X		M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion				A No erosion or horizontal deviation observed.
		X		M Erosion gullies greater than 15 cm (6 inches deep. Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot ) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event.  
**M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency.  
**U-Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

Overall Rating

M

2007 CHANNEL REPORT

**SACRAMENTO RIVER AND TRIBUTARIES  
August 2007**

**LINDO CHANNEL**



**Downstream from the Lindo Channel Diversion Structure**



**Downstream from Manzanita Avenue**

**2007 CHANNEL REPORT**

**SACRAMENTO RIVER AND TRIBUTARIES  
August 2007**

**LINDO CHANNEL**



**Upstream from the bike path bridge at the extension of Madrone Avenue**



**Upstream from Mariposa**

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**SACRAMENTO RIVER AND TRIBUTARIES  
August 2007**

**LINDO CHANNEL**



**Downstream from the Esplanade**



**Upstream from Highway 32**

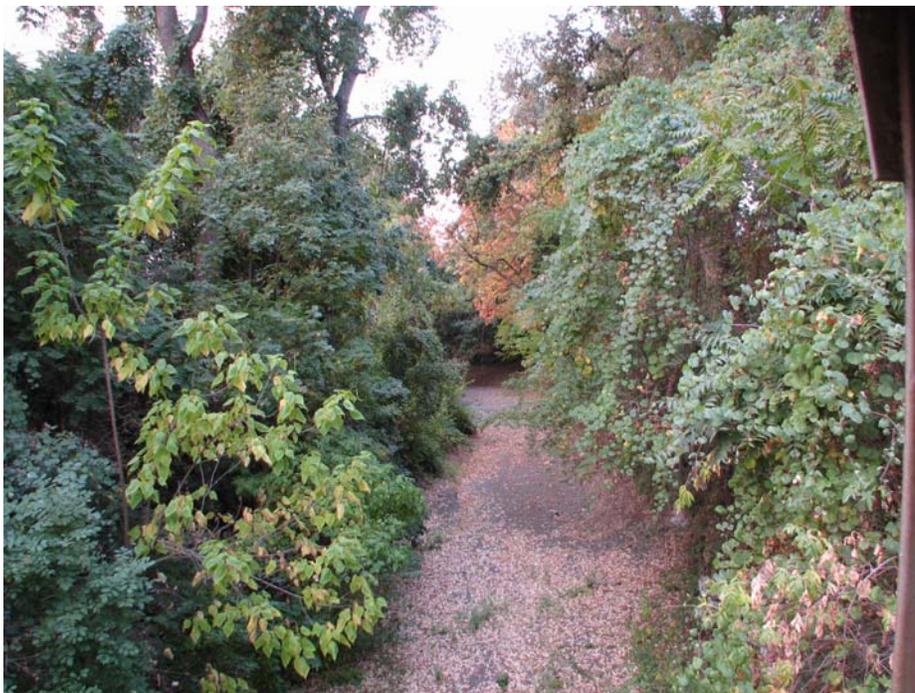
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**SACRAMENTO RIVER AND TRIBUTARIES  
August 2007**

**SANDY GULCH**



**Downstream from Oak Ave**



**Downstream from Grape Way**

**2007 CHANNEL REPORT**

# **SACRAMENTO RIVER AND TRIBUTARIES**

## **August 2007**

### **LITTLE CHICO CREEK** **(Maintained by the City of Chico)**

**In August, 2007, an inspection was made of the Little Chico Creek channel. The project channel begins at the Little Chico Creek Control and Weir Structure and extends downstream for 18.0 miles to Alberton Road. Only 12.0 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all of the growth in the channel. Growth between the control structure and Lone Pine Avenue is moderate to heavy along both banks, but channel is clear. Selective thinning and fallen tree removal should be done prior to next flood season.**

**SACRAMENTO RIVER AND TRIBUTARIES  
August 2007**

**LITTLE CHICO CREEK**

**2007 CHANNEL REPORT**

# SACRAMENTO RIVER AND TRIBUTARIES

## August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
LITTLE CHICO CREEK

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions				A There are minimal obstructions or vegetation blocking the channel
		X		M The channel is obstructed by minor log jams, snags or vegetation.
				U Obstructions or vegetation growth have obstructed over 20% of the channel.
2. Encroachments				A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
		X		M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks				A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
		X		M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling				A No shoaling present.
				M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
			X	U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion	X			A No erosion or horizontal deviation observed.
				M Erosion gullies greater than 15 cm (6 inches deep. Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot ) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event.  
**M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency. **U- Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

**Overall Rating** U **2007 CHANNEL REPORT**

**SACRAMENTO RIVER AND TRIBUTARIES  
August 2007**



**Downstream from the control structure on Little Chico Creek  
moderate growth in the channel**



**Downstream from Bruce Road**

**2007 CHANNEL REPORT**

**SACRAMENTO RIVER AND TRIBUTARIES  
August 2007**



**Upstream from Forest Avenue**



**Erosion repair site, upstream of Highway 99**

**SACRAMENTO RIVER AND TRIBUTARIES  
August 2007**



**Upstream from Boucher Street. Dense growth on both banks**



**Downstream from Olive Street**

**SACRAMENTO RIVER AND TRIBUTARIES  
August 2007**



**Downstream from Broadway St. Growth on both banks.**



**Upstream from Lone Pine Street.**

**SACRAMENTO RIVER AND TRIBUTARIES  
August 2007**



**Downstream from Lone Pine Street.**

## **CHAPTER II**

### **PROJECT CHANNELS INSPECTED ON THE TRUCKEE RIVER AND THE FAIRFIELD VICINITY STREAMS**

**PLACER COUNTY  
August 2007**

**TRUCKEE RIVER  
(Maintained by Placer County)**

**In August 2007, an inspection was made of the Truckee River channel. The project channel begins at the Lake Tahoe Outlet Works and extends downstream for 0.6 mile. The entire 0.6-mile was inspected. The photos on the following pages are typical views of the channel. The channel does not have flow impairing vegetal growth and obstructions. Placer County has monitored this channel for years and has not had to do maintenance to the project. Although this is a visual inspection, the channel appears that it would carry designed flow if required.**

# PLACER COUNTY

## August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
TRUCKEE RIVER

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions	X			A There are minimal obstructions or vegetation blocking the channel
				M The channel is obstructed by minor log jams, snags or vegetation.
				U Obstructions or vegetation growth has obstructed over 20% of the channel.
2. Encroachments	X			A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
				M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks	X			A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
				M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling	X			A No shoaling present.
				M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion	X			A No erosion or horizontal deviation observed.
				M Erosion gullies greater than 15 cm (6 inches deep. Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot ) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event.  
**M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency. **U- Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

Overall Rating

A

2007 CHANNEL REPORT

**PLACER COUNTY  
August 2007**

**TRUCKEE RIVER**



**The outlet structure upstream from Highway 89**



**Downstream from Highway 89 bridge  
2007 CHANNEL REPORT**

**PLACER COUNTY  
August 2007**

**TRUCKEE RIVER**



**Upstream from the bike bridge, 1,100 feet  
down stream of the Lake Tahoe Outlet Structure**



**Downstream from the bike bridge  
2007 CHANNEL REPORT**

**PLACER COUNTY  
August 2007**

**TRUCKEE RIVER**



**Upstream from the Tahoe City Lumber Yard**



**Downstream from the Tahoe City Lumber Yard  
Near the downstream limit of the project**

**2007 CHANNEL REPORT**

**PLACER COUNTY**  
**August 2007**

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**SACRAMENTO RIVER AND TRIBUTARIES  
FAIRFIELD VICINITY STREAMS  
August 2007**

**McCoy CREEK  
(Maintained by Fairfield-Suisun Sewer District)**

**In August 2007, an inspection was made of the McCoy Creek channel. The project channel begins at Prosperity Lane and extends downstream 1.22 miles to McCoy Creeks' confluence with Buffer Channel. The entire 1.22 miles were inspected. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. Vegetation is minimal and should not affect the flow. The patrol roads should be sterilized prior to flood season. The maintaining agency has an excellent maintenance program.**

# SACRAMENTO RIVER AND TRIBUTARIES FAIRFIELD VACINITY STREAMS August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
McCoy Creek

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions	X			A There are minimal obstructions or vegetation blocking the channel
				M The channel is obstructed by minor log jams, snags or vegetation.
				U Obstructions or vegetation growth has obstructed over 20% of the channel.
2. Encroachments	X			A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
				M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks	X			A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
				M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling	X			A No shoaling present.
				M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion	X			A No erosion or horizontal deviation observed.
				M Erosion gullies greater than 15 cm (6 inches deep. Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot ) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event.

**M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency. **U-**

**Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

Overall Rating

A

2007 CHANNEL REPORT

**SACRAMENTO RIVER AND TRIBUTARIES  
FAIRFIELD VICINITY STREAMS  
August 2007**

**McCoy Creek**



**Downstream from Bella Vista Drive**



**Downstream from Emperor Drive**

**2007 CHANNEL REPORT**

**SACRAMENTO RIVER AND TRIBUTARIES  
FAIRFIELD VACINITY STREAMS  
August 2007**

**McCoy Creek**



**Upstream from Pintail Avenue**



**Upstream from Anderson Drive**

**2007 CHANNEL REPORT**

**SACRAMENTO RIVER AND TRIBUTARIES  
FAIRFIELD VACINITY STREAMS  
August 2007**

**LAUREL CREEK**

**(Maintained by Fairfield-Suisun Sewer District)**

**In August 2007, an inspection was made of the Laurel Creek Channel. The project channel begins at Gulf Drive and extends downstream 2.78 miles to Laurel Creek's confluence with McCoy Creek. The entire 2.78 miles were inspected. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. Vegetation is minimal in the channel and does not affect the flow, however, new growth should be removed or sprayed. The Maintaining agency has an excellent maintenance program.**

# SACRAMENTO RIVER AND TRIBUTARIES FAIRFIELD VACINITY STREAMS August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
**LAUREL CREEK**

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions	X			A There are minimal obstructions or vegetation blocking the channel
				M The channel is obstructed by minor log jams, snags or vegetation.
				U Obstructions or vegetation growth has obstructed over 20% of the channel.
2. Encroachments	X			A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
				M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks	X			A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
				M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling	X			A No shoaling present.
				M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion	X			A No erosion or horizontal deviation observed.
				M Erosion gullies greater than 15 cm (6 inches deep). Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot ) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event. **M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency. **U- Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

Overall Rating

A

2007 CHANNEL REPORT

**SACRAMENTO RIVER AND TRIBUTARIES  
FAIRFIELD VACINITY STREAMS  
August 2007**

**LAUREL CREEK**



**Upstream from Cement Hill Road towards Gulf Drive**



**Downstream from Cement Hill Road**

**SACRAMENTO RIVER AND TRIBUTARIES  
FAIRFIELD VACINITY STREAMS  
August 2007**

**LAUREL CREEK**



**Downstream from Meadowlark Drive**



**Downstream from Matthew Road towards  
Railroad culvert under crossing**

**2007 CHANNEL REPORT**

**SACRAMENTO RIVER AND TRIBUTARIES  
FAIRFIELD VACINITY STREAMS  
August 2007**

**LAUREL CREEK**



**Downstream from Worley Road towards the confluence with McCoy Creek**

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**2007 CHANNEL REPORT**

**SACRAMENTO RIVER AND TRIBUTARIES  
FAIRFIELD VACINITY STREAMS  
August 2007**

**UNION AVENUE DIVERSION  
(Maintained by Fairfield-Suisun Sewer District)**

**In August 2007, an inspection was made of the Union Avenue Diversion Channel. The project channel begins at North Texas Street and extends downstream 0.73 mile to Gulf Drive. The entire 0.73-mile was inspected. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. Vegetation is minimal in the channel and does not affect the flow, however, new growth should be removed or sprayed. The maintaining agency has an excellent maintenance program.**

# SACRAMENTO RIVER AND TRIBUTARIES FAIRFIELD VACINITY STREAMS August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
UNION AVENUE DIVERSION

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions	X			A There are minimal obstructions or vegetation blocking the channel
				M The channel is obstructed by minor log jams, snags or vegetation.
				U Obstructions or vegetation growth has obstructed over 20% of the channel.
2. Encroachments	X			A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
				M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks	X			A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
				M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling	X			A No shoaling present.
				M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion	X			A No erosion or horizontal deviation observed.
				M Erosion gullies greater than 15 cm (6 inches deep. Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot ) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event. **M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency. **U-Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

Overall Rating

A

2007 CHANNEL REPORT

**SACRAMENTO RIVER AND TRIBUTARIES  
FAIRFIELD VACINITY STREAMS  
August 2007**



**Downstream from North Texas Street**



**Downstream from Camrose Avenue**

**2007 CHANNEL REPORT**

**SACRAMENTO RIVER AND TRIBUTARIES  
FAIRFIELD VACINITY STREAMS  
August 2007**



**Downstream from Dover Ave**



**Upstream from the downstream limits at Gulf Drive**

**2007 CHANNEL REPORT**

## **CHAPTER III**

### **PROJECT CHANNELS INSPECTED ON THE SAN JOAQUIN RIVER AND TRIBUTARIES**

**2007 CHANNEL REPORT**

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**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**BEAR CREEK  
(Maintained by the Merced Irrigation District for Merced County)**

**In August 2007, an inspection was made of Bear Creek. The project channel begins 2.0 miles upstream of the confluence with Burns Creek and extends downstream 21.0 miles to Bert Crane Road. Only 15 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show, all the growth in the channel. Moderate to heavy growth exists along both banks from the confluence with Burns Creek to approximately the Merced City limits. From Franklin Road to Dickerson Ferry Road, the channel and banks are minimal overgrown. A clearing program should be implemented . However, California Department of Fish and Game has stopped the channel-clearing program. Both agencies are working to resolve the issues and continue channel maintenance.**

# SAN JOAQUIN RIVER AND TRIBUTARIES MERCED STREAM GROUP August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
BEAR CREEK

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions				A There are minimal obstructions or vegetation blocking the channel
		X		M The channel is obstructed by minor log jams, snags or vegetation.
				U Obstructions or vegetation growth has obstructed over 20% of the channel.
2. Encroachments				A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
		X		M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks	X			A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
				M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling				A No shoaling present.
		X		M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion				A No erosion or horizontal deviation observed.
		X		M Erosion gullies greater than 15 cm (6 inches deep. Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot ) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event.  
**M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency. **U- Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

Overall Rating

M

2007 CHANNEL REPORT

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**BEAR CREEK**



**Downstream from 0.5 mile upstream of the Bonner Road bridge**



**Downstream from Arboleda Drive**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**BEAR CREEK**



**Downstream from Kibby Road**



**Downstream from McKee Road**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**BEAR CREEK**



**Downstream from "M" Street**



**Franklin Road**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**BEAR CREEK**



**Upstream toward Highway 140**



**Downstream Buhach Road**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**BEAR CREEK**



**Downstream from Dickerson Ferry Road**

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**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**BLACK RASCAL CREEK  
(Maintained by the Merced Irrigation District for Merced County)**

**On August 20, 2007 an inspection was made of Black Rascal Creek Channel. The project channel begins at Crocker Dam and extends downstream 6.5 miles to Black Rascal Creek's confluence with Bear Creek. The entire 6.5 miles were inspected. Views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. The wild growth should be cleared to allow proper design flow.**

# SAN JOAQUIN RIVER AND TRIBUTARIES MERCED STREAM GROUP August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
**BLACK RASCAL CREEK**

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions				A There are minimal obstructions or vegetation blocking the channel
				M The channel is obstructed by minor log jams, snags or vegetation.
			X	U Obstructions or vegetation growth has obstructed over 20% of the channel.
2. Encroachments				A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
		X		M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks	X			A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
				M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling	X			A No shoaling present.
				M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion	X			A No erosion or horizontal deviation observed.
				M Erosion gullies greater than 15 cm (6 inches deep). Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot ) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event. **M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency. **U-Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

Overall Rating

A

2007 CHANNEL REPORT

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**BLACK RASCAL CREEK**



**Downstream from the Crocker Dam**



**Downstream from Franklin Road**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**BLACK RASCAL CREEK**



**Downstream from Highway 140**



**Downstream from Oak Avenue**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**BLACK RASCAL CREEK**



**Downstream From Quinley Road**



**At the confluence of Black Rascal & Bear Creek**

**2007 CHANNEL REPORT**

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**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**BURNS CREEK  
(Maintained by Merced Irrigation District for Merced County)**

**On August 21, 2007 an inspection was made of the Burns Creek Channel. The project channel begins 2.0 miles upstream of Burns Creek's confluence with Bear Creek and extends 2.0 miles downstream to the confluence. Only 1.0 mile of channel could be inspected due to inaccessibility. The photos on the following pages are typical of, but do not show all the growth in the channel. Merced County should mechanically clear and maintenance sprays the channel. However, The California Department of Fish and Game has stopped the channel-clearing program. Both agencies are working to resolve the issues and continue channel maintenance.**

# SAN JOAQUIN RIVER AND TRIBUTARIES MERCED STREAM GROUP August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
BURNS CREEK

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions	X			A There are minimal obstructions or vegetation blocking the channel
				M The channel is obstructed by minor log jams, snags or vegetation.
				U Obstructions or vegetation growth has obstructed over 20% of the channel.
2. Encroachments				A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
	X			M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks	X			A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
				M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling	X			A No shoaling present.
				M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion	X			A No erosion or horizontal deviation observed.
				M Erosion gullies greater than 15 cm (6 inches deep. Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot ) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event.

**M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency. **U-**

**Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

Overall Rating

A

2007 CHANNEL REPORT

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**BURNS CREEK**



**Low water crossing along Burns Creek**



**Downstream from Bonner Road Flying "M" Ranch**

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**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**MARIPOSA CREEK/DUCK SLOUGH  
(Maintained by the Merced Irrigation District for Merced County)**

On August 21, 2007 an inspection was made of Mariposa Creek/Duck Slough channel. The project channel begins 4.0 miles upstream of Fresno Road, and extends downstream for 16.5 miles to Highway 59. Only 12.0 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. The wild growth should be cleared. There were a couple places where erosion sites were noticed.

# SAN JOAQUIN RIVER AND TRIBUTARIES MERCED STREAM GROUP August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
MARIPOSA CREEK/DUCK SLOUGH

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions				A There are minimal obstructions or vegetation blocking the channel
		X		M The channel is obstructed by minor log jams, snags or vegetation.
				U Obstructions or vegetation growth has obstructed over 20% of the channel.
2. Encroachments				A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
	X			M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks				A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
		X		M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling				A No shoaling present.
		X		M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion				A No erosion or horizontal deviation observed.
		X		M Erosion gullies greater than 15 cm (6 inches deep. Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot ) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event.

**M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency. **U-**

**Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

Overall Rating

M

2007 CHANNEL REPORT

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**MARIPOSA CREEK/DUCK SLOUGH**



**Upstream from Fresno Road**



**Upstream of White Rock Road**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**MARIPOSA CREEK/DUCK SLOUGH**



**Downstream of Wheatland Road**



**Downstream from Plainsburg Road**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**MARIPOSA CREEK/DUCK SLOUGH**



**Downstream from Arboleda Road**



**Downstream from Healy Road**

**2007 CHANNEL REPORT**

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**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**MILES CREEK  
(Maintained by the Merced Irrigation District for Merced County)**

**On August 21, 2007 an inspection was made of Miles Creek channel. The project channel begins 1.5 miles upstream of Childs Avenue and extends downstream for 12.0 miles to Highway 59. Only 7.0 miles of the channel could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. There is intermittent heavy brush growth throughout the system. The channel is constricted by trees and brush from the start of the inspection to the Miles Creek Dam and should be cleared before next flood season.**

# SAN JOAQUIN RIVER AND TRIBUTARIES MERCED STREAM GROUP August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
MILES CREEK

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions				A There are minimal obstructions or vegetation blocking the channel
				M The channel is obstructed by minor log jams, snags or vegetation.
			X	U Obstructions or vegetation growth has obstructed over 20% of the channel.
2. Encroachments	X			A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
				M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks				A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
		X		M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling				A No shoaling present.
		X		M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion				A No erosion or horizontal deviation observed.
		X		M Erosion gullies greater than 15 cm (6 inches deep. Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot ) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event.  
**M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency.  
**U-Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

Overall Rating

M

2007 CHANNEL REPORT

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**MILES CREEK**



**Downstream from Childs Avenue**



**Downstream from Santa Fe Drive**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**MILES CREEK**



**Downstream from Arboleda Drive**



**Downstream from Healy Road**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**MILES CREEK**



**Upstream from Highway 59.  
The channel is overgrown with wild growth**

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**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**OWENS CREEK  
(Maintained by the Merced Irrigation District for Merced County)**

**In August 2007, an inspection was made of Owens Creek channel. The project channel begins at Cunningham Road and extends downstream for 2.0 miles to Owens Creek Diversion channel. The entire channel was inspected. Heavy dense tule growth was found in the channel. Tules should be sprayed to control growth.**

**2007 CHANNEL REPORT**

# SAN JOAQUIN RIVER AND TRIBUTARIES MERCED STREAM GROUP August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
OWENS CREEK

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions				A There are minimal obstructions or vegetation blocking the channel
				M The channel is obstructed by minor log jams, snags or vegetation.
			X	U Obstructions or vegetation growth has obstructed over 20% of the channel.
2. Encroachments				A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
		X		M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks	X			A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
				M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling	X			A No shoaling present.
				M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion				A No erosion or horizontal deviation observed.
		X		M Erosion gullies greater than 15 cm (6 inches deep. Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot ) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event.  
**M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency. **U- Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

Overall Rating

M

2007 CHANNEL REPORT

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**OWENS CREEK**



**Downstream from Cunningham Road**



**Downstream from Childs Avenue, note the erosion left bank**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
Madera County Stream Group  
August 2007**

**ASH SLOUGH**



**Upstream from Childs Avenue**



**Upstream from the extension of Mission Avenue**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
MERCED STREAM GROUP  
August 2007**

**ASH SLOUGH  
(Maintained by the Madera County Flood Control and Water Conservation  
Agency)**

**In August 2007, an inspection was made Ash Slough channel. The project channel begins at the Ash and Berenda Slough Bifurcation Structure and extends downstream for 19.0 miles. Only 14.0 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. There are some willows and bamboo on the banks, but the channel appears to be in satisfactory condition. There has been no apparent maintenance in recent years. The new growth needs to be removed and maintenance sprayed.**

# SAN JOAQUIN RIVER AND TRIBUTARIES

## Madera County Stream Group

### August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
ASH SLOUGH

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions				A There are minimal obstructions or vegetation blocking the channel
		X		M The channel is obstructed by minor log jams, snags or vegetation.
				U Obstructions or vegetation growth has obstructed over 20% of the channel.
2. Encroachments				A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
		X		M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks				A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
		X		M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling				A No shoaling present.
		X		M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion				A No erosion or horizontal deviation observed.
		X		M Erosion gullies greater than 15 cm (6 inches deep). Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot ) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event.  
**M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency. **U- Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

Overall Rating

M

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
Madera County Stream Group  
August 2007**

**ASH SLOUGH**



**Down stream from Road 19**



**Upstream from Road 9**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
Madera County Stream Group  
August 2007**

**ASH SLOUGH**



**Upstream from Avenue 25**



**Avenue 23 1/2**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
Madera County Stream Group  
August 2007**

**ASH SLOUGH**



**Upstream at Highway 152**



**Upstream from Road 9**

**2007 CHANNEL REPORT**

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**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
Madera County Stream Group  
August 2007**

**BERENDA SLOUGH  
(Maintained by the Madera County Flood Control and Water Conservation  
Agency)**

**In August 2007, an inspection was made of Berenda Slough channel. The project channel begins at the Ash and Berenda Slough Bifurcation Structure and extends downstream for 18.5 miles. Only 13.0 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. The channel has areas of willow and bamboo growth that should be cleared. There appears to have been little to no maintenance performed in the past several years. The wild growth should be cleared to allow proper design flow.**

# SAN JOAQUIN RIVER AND TRIBUTARIES

## Madera County Stream Group

### August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
**BERENDA SLOUGH**

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions				A There are minimal obstructions or vegetation blocking the channel
		X		M The channel is obstructed by minor log jams, snags or vegetation.
				U Obstructions or vegetation growth has obstructed over 20% of the channel.
2. Encroachments				A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
		X		M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks				A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
		X		M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling				A No shoaling present.
		X		M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion				A No erosion or horizontal deviation observed.
		X		M Erosion gullies greater than 15 cm (6 inches deep). Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot ) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event.  
**M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency. **U- Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

Overall Rating

M

2007 CHANNEL REPORT

**SAN JOAQUIN RIVER AND TRIBUTARIES  
Madera County Stream Group  
August 2007**

**BERENDA SLOUGH**



**Downstream from the Berenda Slough bifurcation structure**



**Upstream from Santa Fe Drive**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES**  
**November 2003**



**Downstream from Avenue 26**



**Upstream from Road 19**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
November 2003**



**Upstream from road 16**



**Upstream of Avenue 22 ½ low water crossing**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES**  
**November 2003**



**Upstream from Avenue 20**



**Downstream of Avenue 18 ½**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
Madera County Stream Group  
August 2007**

**CHOWCHILLA RIVER  
(Maintained by the Madera County Flood Control and Water Conservation  
Agency)**

In August, 2007, an inspection was made of the Chowchilla River channel. The project channel begins at Buchanan Dam and extends downstream for 28.5 miles to Schultz Road. Only 23.0 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. The channel east of Highway 99 is through pastureland. Downstream & Upstream of Road 13 bridge the wild growth should be cleared to allow proper design flow. There are several encroachments in the channel that should be removed or further investigated to see if it affects the design flow of the channel.

**2007 CHANNEL REPORT**

# SAN JOAQUIN RIVER AND TRIBUTARIES

## Madera County Stream Group

### August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
**CHOWCHILLA RIVER**

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions				A There are minimal obstructions or vegetation blocking the channel
		X		M The channel is obstructed by minor log jams, snags or vegetation.
				U Obstructions or vegetation growth has obstructed over 20% of the channel.
2. Encroachments				A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
	X			M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks				A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
		X		M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling				A No shoaling present.
	X			M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion		X		A No erosion or horizontal deviation observed.
				M Erosion gullies greater than 15 cm (6 inches deep). Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot ) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event.  
**M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency.  
**U-Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

Overall Rating

M

2007 CHANNEL REPORT

**SAN JOAQUIN RIVER AND TRIBUTARIES  
Madera County Stream Group  
August 2007**

**CHOWCHILLA RIVER**



**Upstream of bridge downstream of Buchanan Dam**



**Downstream of bridge downstream of Buchanan Dam**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
Madera County Stream Group  
August 2007**

**CHOWCHILLA RIVER**



**Downstream from Road 13 / Vista Avenue**



**Low water crossing at Road 11**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
Madera County Stream Group  
August 2007**

**CHOWCHILLA RIVER**



**Downstream from Road 9 & Bliss Road**



**Upstream from Avenue 25 & Washington Road**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
Madera County Stream Group  
August 2007**

**CHOWCHILLA RIVER**



**Downstream from Santa Fe Drive**



**Upstream of White Rock Road**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
Madera County Stream Group  
August 2007**

**CHOWCHILLA RIVER**



**Animal stall upstream of Road 10 (GPS 37.12053 -120.36039)**



**Down tree across channel upstream of Road 11 (GPS 37.12673 -120.33671)**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
Madera County Stream Group  
August 2007**

**CHOWCHILLA RIVER**



**Downstream from Avenue 25 crossing**



**Upstream from Shulte Road & Road 5 ½**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
Madera County Stream Group  
August 2007**

**FRESNO RIVER  
(Maintained by the Madera County Flood Control and Water Conservation  
Agency)**

**In August 2007, an inspection was made of the Fresno River channel. The project channel begins at Hidden Dam and extends downstream for 13.0 miles to Road 18 ½. Only 9.0 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. There is some small willow growth in the channel, mainly up near the Dam. The maintaining agency should do something about clearing that area. They annually do dozer work below keeping the small brush removed and controlled, these photos will show that. The District has an excellent maintenance program.**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES**  
**Madera County Stream Group**  
**August 2007**

**FRESNO RIVER**

# SAN JOAQUIN RIVER AND TRIBUTARIES

## Madera County Stream Group

### August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
**FRESNO RIVER**

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions				A There are minimal obstructions or vegetation blocking the channel
		X		M The channel is obstructed by minor log jams, snags or vegetation.
				U Obstructions or vegetation growth has obstructed over 20% of the channel.
2. Encroachments				A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
	X			M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks				A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
		X		M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling				A No shoaling present.
	X			M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion				A No erosion or horizontal deviation observed.
		X		M Erosion gullies greater than 15 cm (6 inches deep). Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event.  
**M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency.  
**U-Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

Overall Rating

M

2007 CHANNEL REPORT

**SAN JOAQUIN RIVER AND TRIBUTARIES  
Madera County Stream Group  
August 2007**

**FRESNO RIVER**



**Downstream from Road 400 below hidden dam**



**Downstream off timber bridge across from Madera canal.**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
Madera County Stream Group  
August 2007**

**FRESNO RIVER**



**Downstream from Gateway Drive**



**Downstream from Granada Avenue**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES**  
**Madera County Stream Group**  
**August 2007**

**FRESNO RIVER**



Downstream from Granada Avenue Farmer has stocked piled grape stalk cuttings  
(3) piles, 9-foot wide 3-4 foot high 2-250' parallel to channel.

**SAN JOAQUIN RIVER AND TRIBUTARIES  
Madera County Stream Group  
August 2007**

**FRESNO RIVER**



**Downstream from Road 20**



**Upstream from the downstream boundary**

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**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES**  
**San Joaquin Flood Control District**  
**August 2007**

**NORTH LITTLEJOHN CREEK**  
**(Maintained by the San Joaquin County Flood Control District)**

**In August 2007, an inspection was made of the North Littlejohn Creek channel. The project channel begins at its bifurcation with South Littlejohn Creek and extends downstream for 18.0 miles to North Littlejohn Creek's confluence with French Camp Slough. Only about 16.0 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. There are areas, especially at the upper end, that have moderate tree growth in and around the channel. Wild growth in channel should be cleared.**

# SAN JOAQUIN RIVER AND TRIBUTARIES

## San Joaquin Flood Control District

### August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
**NORTH LITTLEJOHN CREEK**

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions				A There are minimal obstructions or vegetation blocking the channel
		X		M The channel is obstructed by minor log jams, snags or vegetation.
				U Obstructions or vegetation growth has obstructed over 20% of the channel.
2. Encroachments				A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
		X		M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks				A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
		X		M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling				A No shoaling present.
		X		M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion	X			A No erosion or horizontal deviation observed.
				M Erosion gullies greater than 15 cm (6 inches deep. Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event.

**M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency. **U-**

**Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

Overall Rating

M

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
San Joaquin Flood Control District  
August 2007**

**NORTH LITTLEJOHN CREEK**



**Upstream at the bifurcation of North Littlejohn Creek**



**Structure at Hewit Lane**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
San Joaquin Flood Control District  
August 2007**

**NORTH LITTLEJOHN CREEK**



**Upstream from Mariposa Road**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
San Joaquin Flood Control District  
August 2007**

**DUCK CREEK DIVERSION CHANNEL  
(Maintained by the San Joaquin County Flood Control District)**

**In August 2007, an inspection was made of the Duck Creek Diversion channel. The project channel begins at the Duck Creek Diversion Weir and Control Structure and extends downstream for 5,000 feet to its confluence with South Littlejohn Creek. All 5,000 feet were inspected. The views of the channel are primarily at road crossings. The channel is clear of any growth except for minimal vegetation at the spillway. The District has a good maintenance program.**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES**  
**San Joaquin Flood Control District**  
**August 2007**

Date of Inspection:  
**8/2007**

Channel/Waterway:  
**DUCK CREEK DIVERSION CHANNEL**

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions	X			A There are minimal obstructions or vegetation blocking the channel
				M The channel is obstructed by minor log jams, snags or vegetation.
				U Obstructions or vegetation growth has obstructed over 20% of the channel.
2. Encroachments				A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
	X			M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks	X			A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
				M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling	X			A No shoaling present.
				M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion	X			A No erosion or horizontal deviation observed.
				M Erosion gullies greater than 15 cm (6 inches deep). Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event.  
**M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency. **U- Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

**Overall Rating**

**A**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
San Joaquin Flood Control District  
August 2007**

**DUCK CREEK DIVERSION CHANNEL**



**Downstream from the diversion structure**



**Downstream from Highway 4**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES**  
**San Joaquin Flood Control District**  
**August 2007**

**DUCK CREEK DIVERSION CHANNEL**



**End of Duck Creek at confluence with South Littlejohn**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
San Joaquin Flood Control District  
August 2007**

**SOUTH LITTLEJOHN CREEK  
(Maintained by the San Joaquin County Flood Control District)**

**On June 15, 2007 an inspection was made of the South Littlejohn Creek channel. The project channel begins at Farmington Dam and extends downstream for 21.7 miles to South Littlejohn Creek's confluence with Lone Tree Creek. Only about 17.0 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. The channel is clear but there are small sections of vegetation that can be cleared.**

# SAN JOAQUIN RIVER AND TRIBUTARIES

## San Joaquin Flood Control District

August 2007

Date of Inspection:  
6/2007

Channel/Waterway:

### South Littlejohn Creek

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions	X			A There are minimal obstructions or vegetation blocking the channel
				M The channel is obstructed by minor log jams, snags or vegetation.
				U Obstructions or vegetation growth has obstructed over 20% of the channel.
2. Encroachments				A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
	X			M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks				A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
				M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
		X		U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling				A No shoaling present.
				M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
		X		U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion				A No erosion or horizontal deviation observed.
	X			M Erosion gullies greater than 15 cm (6 inches deep). Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event.  
**M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency. **U- Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

Overall Rating

M

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
San Joaquin Flood Control District  
August 2007**

**South Littlejohn Creek**



**Downstream from the confluence with Duck Creek**



**Downstream from Stanley Road**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
San Joaquin Flood Control District  
August 2007**

**South Littlejohn Creek**



**Downstream from Van Allen Road**



**Down stream from Mariposa Road**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
San Joaquin Flood Control District  
August 2007**

**South Littlejohn Creek**



**Downstream from Jack Tone Road**



**Downstream from Austin Road**

**2007 CHANNEL REPORT**

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**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES**  
**San Joaquin Flood Control District**  
**August 2007**

**SOUTH LITTLEJOHN CREEK, NORTH BRANCH**  
**(Maintained by the San Joaquin County Flood Control District)**

**On September 9, 2005 an inspection was made of the South Littlejohn Creek, North Branch channel. The project channel begins at bifurcation with South Littlejohn Creek and extends downstream for 6.1 miles to Highway 99. Only about 5.0 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. The sections of growth need to be removed in the areas that are dense and restrict flows.**

# SAN JOAQUIN RIVER AND TRIBUTARIES

## San Joaquin Flood Control District

### August 2007

Date of Inspection:  
8/2007

Channel/Waterway:  
**JOHN CREEK NORTH BRANCH**

RATED ITEM(S)	RATING			EVALUATION
	A	M	U	
1. Vegetation and Obstructions				A There are minimal obstructions or vegetation blocking the channel
		X		M The channel is obstructed by minor log jams, snags or vegetation.
				U Obstructions or vegetation growth has obstructed over 20% of the channel.
2. Encroachments				A No trash, debris, excavations, structures, or other obstructions present within the project easement area. Encroachments which do not diminish proper functioning of the project have been previously approved by the Corps & Reclamation Board.
	X			M Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will not inhibit project operations and maintenance or emergency operations.
				U Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operations.
3. Riprap Revetments and Banks				A Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible
	X			M No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.
				U Dense brush, trees or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling. Channel flow is impeded.
4. Shoaling				A No shoaling present.
	X			M Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.
				U Shoaling is well established, stabilized by trees, brush, or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.
5. Erosion				A No erosion or horizontal deviation observed.
	X			M Erosion gullies greater than 15 cm (6 inches deep). Horizontal deviation not more than 1 foot from the designed grade or cross section.
				U Erosion gullies greater than 15 cm deep. Horizontal deviation of more than 30 cm (1 foot) from the designed grade or cross section. Corrective actions required to stop or slow erosion.

**A-Acceptable:** The rated item is in satisfactory condition, with no deficiencies, and will function as designed and intended during the next flood event.  
**M-Minimally Acceptable:** This rated item has minor deficiencies that need to be corrected. The minor deficiencies will not seriously impair the functioning of the item during the next flood event. The overall reliability of the project will be lowered because of the minor deficiency.  
**U-Unsatisfactory:** The deficiencies are serious enough that the rated item will not adequately function during the next flood event, compromising the project's ability to provide reliable flood protection.

Overall Rating

M

2007 CHANNEL REPORT

**SAN JOAQUIN RIVER AND TRIBUTARIES  
San Joaquin Flood Control District  
August 2007**

**JOHN CREEK NORTH BRANCH**



**Downstream confluence of South Little John North Branch**



**Upstream from Jack Tone Road**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES  
San Joaquin Flood Control District  
August 2007**

**SOUTH LITTLEJOHN CREEK  
NORTH BRANCH**



**Upstream Austin Road**

**2007 CHANNEL REPORT**

**SAN JOAQUIN RIVER AND TRIBUTARIES**  
**San Joaquin Flood Control District**  
**August 2007**

Inspection Date	Maintaining Agency	Channel & Flow Capacity	Remarks	Action	Page
7/11/05	Adin Community Service District	Ash Creek	Excellent Maintenance Program	No action needed at this time.	3
7/11/05	Adin Community Service District	Dry Creek	Light to moderate willow growth in channel	Remove or spray willow	9
7/11/05	Tehama County	McClure Creek	Satisfactory Maintenance Program	No action needed at this time.	13
7/11/05	Tehama County	Salt Creek	Poor Maintenance (Dense Veg.)	Develop a Maint. Program	17
7/05/05	City of Chico	Big Chico Creek (17,500 cfs)	Dense Vegetation along banks	Control wild growth	25
7/05/05	DWR	Lindo Channel (14,500 cfs)	Small wild growth in channel	Control wild growth	31
7/06/05	DWR	Sandy Gulch (6,000 cfs)	Dense wild growth along banks	Control wild growth	31
7/06/05	City of Chico	Little Chico Creek (13,000 cfs)	Dense to moderate wild growth	Selective thinning and fallen trees removed	37
7/06/05	Placer County	Truckee River (6,000 cfs)	Clear Channel	No action needed at this time	45
8/19/03	Fairfield Sewer District	McCoy Creek (2,000 cfs)	Clear Channel	Excellent Maintenance Program	51
8/19/03	Fairfield Sewer District	Laurel Creek (3,700 cfs)	Minimal vegetation	Remove small growth	55
8/19/03	Fairfield Sewer District	Union Ave. Diversion (2,600 cfs)	Minimal vegetation	Remove small growth	61
7/18/05	Merced I. D.	Bear Creek (2,000 cfs)	Moderate to heavy wild growth	A clearing program should be implemented	67
7/18/05	Merced I. D.	Black Rascal Creek (3,900 cfs)	Moderate wild growth	Control wild growth	75
7/19/05	Merced I. D.	Burns Creek (2,000 cfs)	Little maintenance performed	District should clear & maintenance spray channel	81
7/19/05	Merced I. D.	Mariposa Creek (2,250 cfs)	Moderate wild growth in channel	Clear to allow proper design flow	85
7/19/05	Merced I. D.	Miles Creek (1,000 cfs)	Intermittent dense brush growth throughout the system	District should clear & maintenance spray channel	91
7/20/05	Merced I. D.	Owens Creek (400 cfs)	Minor tule growth	Tule should be sprayed	97
7/20/05	Madera County	Ash Slough (31,000 cfs)	Minor willow & bamboo in channel	Remove new growth	101
7/20/05	Madera County	Berenda Slough (6,000 cfs)	Dense wild growth in channel	Remove wild growth	107
7/21/05	Madera County	Chowchilla River (21575 cfs)	Dense brush downstream of Hwy 99	Clear brush	113
7/21/05	Madera County	Fresno River (23,000 cfs)	Small willow new growth	Control new growth	121
9/09/05	San Joaquin Flood Control District	N. Littlejohn Creek (8,000 cfs)	Moderate tree growth	Control growth	127
9/09/05	San Joaquin Flood Control District	Duck Creek Diversion Ch (250 cfs)	Clear Channel	Good Maintenance Program	131
9/09/05	San Joaquin Flood Control District	S. Littlejohn Creek (8,000 cfs)	Water grass downstream of Hwy. 99	Spray water grass	135
9/09/05	San Joaquin Flood Control District	S. Littlejohn Creek North (16,000 cfs)	The channel is overall clear	No action needed at this time	141

## CHANNEL INDEX

**2007 CHANNEL REPORT**