

**Flood Control Project Maintenance
Levee Inspections**

Fall 2015 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

MA0007 Sutter Maintenance Yard Maintenance Area 0007	Overall LMA Rating	Total LMA Miles						
	M	11.90						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					1.97	0.02		
Erosion / Bank Caving	1.70		1.70	14.29%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.23		0.23	1.93%				
DWR UCIP Field Study					0.27	0.03		
<i>LMA Totals:</i>	1.93	0.00	1.93	16.23%	2.24	0.05	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2015 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0007

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			M	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

* **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0007

Waterway		Bank	Unit Miles	
Unit No. 01 Feather River		Right	11.90	
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	05/05/2015 - 05/05/2015		11/16/2015 - 11/16/2015	
DWR Inspector	Michael Pitta		Bob Duffey	
Accompanied By	Sean Freitag		Sean Freitag	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River		Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start		Rating **	A	Issue No.	1
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_MA0007_01_s_2013_1				
Action/Comments					
Inspector Comments: The O&M manuals are located at the Sutter Maintenance Yard.					

No Photos

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_MA0007_01_s_2013_3				
Action/Comments					
Inspector Comments: Emergency supplies and equipment are stored at the Sutter Maintenance Yard.					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_MA0007_01_s_2013_4				
Action/Comments					
Inspector Comments: Sutter Maintenance Yard employees attend the annual Flood Fight class put on by DWR inspector Bob Duffy.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	0.03	Rating **	M	Issue No.	42
LM End	1.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		39.311297 °	39.334365 °	
			-121.637490 °	-121.633975 °	
DWR ID	DWR_MA0007_01_s_2012_42				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Erosion along landward levee slope due to agricultural ditch.					

Photo 1 of 2 : FA_2015_MA0007_200_42_20151109_00006.jpg



This photo was taken from the levee crown facing north looking at the erosion along the landward levee slope due to an agricultural ditch. Spring 2014.

LM Start	0.03	Rating **	M	Issue No.	42 (cont)
LM End	1.72	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2015_MA0007_200_42_20151109_00007.jpg



Agricultural ditch landside slope and toe.

LM Start	0.47	Rating **	M	Issue No.	48
LM End	0.47	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.316950 °	39.316950 °	
			-121.633438 °	-121.633438 °	
DWR ID	DWR_MA0007_01_s_2015_48				
Action/Comments					
Tank					

Photo 1 of 1 : FA_2015_MA0007_200_48_20151109_00009.jpg



This view of the tanks was taken looking at the waterside of the levee facing upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	0.48	Rating **	C	Issue No.	217
LM End	0.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.317050 °	39.317050 °
				-121.633331 °	-121.633331 °
DWR ID	DWR_MA0007_01_f_2013_217				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Sutter Yard repaired rodent holes along the waterside slope.					

No Photos

LM Start	1.21	Rating **	U	Issue No.	33
LM End	1.21	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.327187 °	39.327187 °
				-121.632395 °	-121.632395 °
DWR ID	DWR_MA0007_01_s_2012_33				
Action/Comments					
Building					

Photo 1 of 1 : FA_2015_MA0007_200_33_20151109_00003.jpg



Levee mile 1.21. This is a photo of the building on the waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	1.55	Rating **	M	Issue No.	218
LM End	1.55	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.331934 °	39.331934 °
				-121.633246 °	-121.633246 °
DWR ID					

Photo 1 of 3 : UCIP_FA_2015_5360.jpg



Action/Comments

Inspector Comments: FS_ID:46095
 DS_ID:16928
 EP_NO: N/A
 FS_HLM: 1.544
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 6/10/2015 Same as last inspection.crossing appears abandoned, slide gate is missing on landward side; wood frame remains on LS; scour hole present on LS, 3 feet by 3 feet, near wood frame.5/10/2013 Same as last inspection. LS scour behind structure needs to be repaired.5/13/2013 SBFCA project recommends replacing in accordance with title 23.11/6/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection.
 FIELD_STRUCT_DESC: Abandoned 12-inch CM pipe through the levee, 8.2 feet below the crown. Slide gate on the landward is no longer present. Concrete "U" headwall at the waterward toe. Irrigation ditch located on landward side.
 FS Date: 07/01/2015

WS view-concrete headwall located on waterward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	1.55	Rating **	M	Issue No.	218 (cont)
LM End	1.55	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.331934 °	39.331934 °
				-121.633246 °	-121.633246 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46095 DS_ID:16928 EP_NO: N/A FS_HLM: 1.544 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/10/2015 Same as last inspection.crossing appears abandoned, slide gate is missing on landward side; wood frame remains on LS; scour hole present on LS, 3 feet by 3 feet, near wood frame.5/10/2013 Same as last inspection. LS scour behind structure needs to be repaired.5/13/2013 SBFCA project recommends replacing in accordance with title 23.11/6/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 12-inch CM pipe through the levee, 8.2 feet below the crown. Slide gate on the landward is no longer present. Concrete "U" headwall at the waterward toe. Irrigation ditch located on landward side. FS Date: 07/01/2015					

Photo 3 of 3 : UCIP_FA_2015_5362.jpg



Overview of levee crown looking upstream.

LM Start	1.55	Rating **	M	Issue No.	2
LM End	1.71	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.332000 °	39.334240 °
				-121.633178 °	-121.633908 °
DWR ID					
Action/Comments					
Inspector Comments: 2011 - The toe of the levee has been excavated by the land owner. Small holes throughout the site have been filled with a plaster like substance. Large canal on landside slope and over the levee toe. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: FHR_47-5_R]					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	1.71	Rating **	M	Issue No.	219
LM End	1.71	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.334294 °	39.334294 °
				-121.634008 °	-121.634008 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46096 DS_ID:20816 EP_NO: N/A FS_HLM: 1.716 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/10/2015 Crossing has been modified since last inspection. 3' black plastic pipe is now running through the metal pipe and the difference was capped and welded. Crossing was installed about 1 foot deep--need permit authorizing work5/7/2013 Same as last inspection. Recommend finding owner.5/13/2013 SBFCA project recommends removal. Permit number and owner in detailed report book.11/6/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 12 inch irrigation pipe through the levee 1 foot below the crown. Crossing on landward side is attached to weir above ground. Siphon breaker on waterward side. No opening on waterward side. FS Date: 07/01/2015					

Photo 1 of 3 : UCIP_FA_2015_5363.jpg



View of levee crown looking downstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	1.71	Rating **	M	Issue No.	219 (cont)
LM End	1.71	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.334294 °	39.334294 °
				-121.634008 °	-121.634008 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46096 DS_ID:20816 EP_NO: N/A FS_HLM: 1.716 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/10/2015 Crossing has been modified since last inspection. 3' black plastic pipe is now running through the metal pipe and the difference was capped and welded. Crossing was installed about 1 foot deep--need permit authorizing work5/7/2013 Same as last inspection. Recommend finding owner.5/13/2013 SBFCA project recommends removal. Permit number and owner in detailed report book.11/6/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 12 inch irrigation pipe through the levee 1 foot below the crown. Crossing on landward side is attached to weir above ground. Siphon breaker on waterward side. No opening on waterward side. FS Date: 07/01/2015					

Photo 2 of 3 : UCIP_FA_2015_5364.jpg



Exposed section of the pipe located on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	1.71	Rating **	M	Issue No.	219 (cont)
LM End	1.71	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.334294 °	39.334294 °
				-121.634008 °	-121.634008 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46096 DS_ID:20816 EP_NO: N/A FS_HLM: 1.716 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/10/2015 Crossing has been modified since last inspection. 3' black plastic pipe is now running through the metal pipe and the difference was capped and welded. Crossing was installed about 1 foot deep--need permit authorizing work5/7/2013 Same as last inspection. Recommend finding owner.5/13/2013 SBFCA project recommends removal. Permit number and owner in detailed report book.11/6/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 12 inch irrigation pipe through the levee 1 foot below the crown. Crossing on landward side is attached to weir above ground. Siphon breaker on waterward side. No opening on waterward side. FS Date: 07/01/2015					

Photo 3 of 3 : UCIP_FA_2015_5365.jpg



Overview of levee crown looking upstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	1.76	Rating **	M	Issue No.	220
LM End	1.76	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.334868 °	39.334868 °
				-121.633773 °	-121.633773 °
DWR ID					

Photo 1 of 3 : UCIP_FA_2015_5366.jpg



Action/Comments

Inspector Comments: FS_ID:46098
 DS_ID:16926
 EP_NO: N/A
 FS_HLM: 1.76
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 6/10/2015 Debris still present in risers and pipes were not replaced with the SBFCA project. Debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0060 however, no issues noted. 5/7/2013 Same debris issue as last inspection. Recommend repairing top cover to prevent falls. Wheel to open gate chained and locked so could not verify gate operation. 5/13/2013 SBFCA project recommends replacing in accordance with title 23. 11/6/2013 Same as last inspection. 5/19/2014 Same as last inspection. 12/29/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 60-inch drain pipe through the levee, 1 of 2 pipes, two (2) 60 inch pipes, 12.5 feet below the crown. Slide gates in 78-inch CM pipe wells on the waterward slope. Concrete bulkhead on both ends. Reinforced concrete spillway on the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 1+90). (USACE O&M Manual, 1957)
 FS Date: 07/01/2015

View inside of CMP riser with slide gate.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	1.76	Rating **	M	Issue No.	220 (cont)
LM End	1.76	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.334868 °	39.334868 °
				-121.633773 °	-121.633773 °
DWR ID					

Photo 2 of 3 : UCIP_FA_2015_5367.jpg



Action/Comments

Inspector Comments: FS_ID:46098
 DS_ID:16926
 EP_NO: N/A
 FS_HLM: 1.76
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 6/10/2015 Debris still present in risers and pipes were not replaced with the SBFCA project. Debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0060 however, no issues noted. 5/7/2013 Same debris issue as last inspection. Recommend repairing top cover to prevent falls. Wheel to open gate chained and locked so could not verify gate operation. 5/13/2013 SBFCA project recommends replacing in accordance with title 23. 11/6/2013 Same as last inspection. 5/19/2014 Same as last inspection. 12/29/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 60-inch drain pipe through the levee, 1 of 2 pipes, two (2) 60 inch pipes, 12.5 feet below the crown. Slide gates in 78-inch CM pipe wells on the waterward slope. Concrete bulkhead on both ends. Reinforced concrete spillway on the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 1+90). (USACE O&M Manual, 1957)
 FS Date: 07/01/2015

78-inch CMP risers located on waterward slope. Upstream riser (far left) missing riser cover. Reinforced concrete spillway also located on waterward end.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	1.76	Rating **	M	Issue No.	220 (cont)
LM End	1.76	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.334868 °	39.334868 °
				-121.633773 °	-121.633773 °
DWR ID					

Photo 3 of 3 : UCIP_FA_2015_5368.jpg



Action/Comments

Inspector Comments: FS_ID:46098
 DS_ID:16926
 EP_NO: N/A
 FS_HLM: 1.76
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 6/10/2015 Debris still present in risers and pipes were not replaced with the SBFCA project. Debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0060 however, no issues noted. 5/7/2013 Same debris issue as last inspection. Recommend repairing top cover to prevent falls. Wheel to open gate chained and locked so could not verify gate operation. 5/13/2013 SBFCA project recommends replacing in accordance with title 23. 11/6/2013 Same as last inspection. 5/19/2014 Same as last inspection. 12/29/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 60-inch drain pipe through the levee, 1 of 2 pipes, two (2) 60 inch pipes, 12.5 feet below the crown. Slide gates in 78-inch CM pipe wells on the waterward slope. Concrete bulkhead on both ends. Reinforced concrete spillway on the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 1+90). (USACE O&M Manual, 1957)
 FS Date: 07/01/2015

View of levee crown looking downstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	1.76	Rating **	M	Issue No.	221
LM End	1.76	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.334886 °	39.334886 °
				-121.633783 °	-121.633783 °
DWR ID					

Photo 1 of 3 : UCIP_FA_2015_5369.jpg



Action/Comments

Inspector Comments: FS_ID:46099
 DS_ID:17011
 EP_NO: N/A
 FS_HLM: 1.761
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 6/10/2015 Debris still present inside riser and pipe was not replaced with the SBFCA project.no cover; debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0060 however, no issues noted.5/7/2013 Same as last inspection. Recommend constructing cover to prevent falls. Wheel to operate gate chained and locked so gate operation could not be verified.5/13/2013 SBFCA project recommends replacing in accordance with title 23.11/6/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 60-inch drain pipe through the levee, 2 of 2 pipes, two (2) 60 inch pipes, 12.5 feet below the crown. Slide gates in 78-inch CM pipe wells on the waterward slope. Concrete bulkhead on both ends. Reinforced concrete spillway on the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 1+90). (USACE O&M Manual, 1957)
 FS Date: 07/01/2015

View of crossing behind slide gate.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	1.76	Rating **	M	Issue No.	221 (cont)
LM End	1.76	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.334886 °	39.334886 °
				-121.633783 °	-121.633783 °
DWR ID					

Photo 2 of 3 : UCIP_FA_2015_5370.jpg



Action/Comments

Inspector Comments: FS_ID:46099
 DS_ID:17011
 EP_NO: N/A
 FS_HLM: 1.761
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 6/10/2015 Debris still present inside riser and pipe was not replaced with the SBFCA project.no cover; debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0060 however, no issues noted.5/7/2013 Same as last inspection. Recommend constructing cover to prevent falls. Wheel to operate gate chained and locked so gate operation could not be verified.5/13/2013 SBFCA project recommends replacing in accordance with title 23.11/6/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 60-inch drain pipe through the levee, 2 of 2 pipes, two (2) 60 inch pipes, 12.5 feet below the crown. Slide gates in 78-inch CM pipe wells on the waterward slope. Concrete bulkhead on both ends. Reinforced concrete spillway on the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 1+90). (USACE O&M Manual, 1957)
 FS Date: 07/01/2015

78-inch CMP risers located on waterward slope. Upstream riser (far left) missing riser cover. Reinforced concrete spillway also located on waterward end.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	1.76	Rating **	M	Issue No.	221 (cont)
LM End	1.76	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.334886 °	39.334886 °
				-121.633783 °	-121.633783 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46099 DS_ID:17011 EP_NO: N/A FS_HLM: 1.761 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/10/2015 Debris still present inside riser and pipe was not replaced with the SBFCA project.no cover; debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0060 however, no issues noted.5/7/2013 Same as last inspection. Recommend constructing cover to prevent falls. Wheel to operate gate chained and locked so gate operation could not be verified.5/13/2013 SBFCA project recommends replacing in accordance with title 23.11/6/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 60-inch drain pipe through the levee, 2 of 2 pipes, two (2) 60 inch pipes, 12.5 feet below the crown. Slide gates in 78-inch CM pipe wells on the waterward slope. Concrete bulkhead on both ends. Reinforced concrete spillway on the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 1+90). (USACE O&M Manual, 1957) FS Date: 07/01/2015					

Photo 3 of 3 : UCIP_FA_2015_5371.jpg



View of levee crown looking downstream.

LM Start	1.77	Rating **	M	Issue No.	41
LM End	1.93	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.334962 °	39.337363 °
				-121.633793 °	-121.633517 °
DWR ID	DWR_MA0007_01_f_2015_41				
Action/Comments					
Prunings Inspector Comments: SBFCA Is removing the trees as part of their ongoing construction project.					

Photo 1 of 1 : FA_2015_MA0007_200_41_20151118_00014.jpg



View of the down trees along the landside slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	1.77	Rating **	M	Issue No.	43
LM End	1.97	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.334962 °	39.337780 °	
			-121.633793 °	-121.633107 °	
DWR ID	DWR_MA0007_01_f_2015_43				
Action/Comments					
Prunings Inspector Comments: SBFCA Is removing the trees as part of the ongoing construction project					

Photo 1 of 1 : FA_2015_MA0007_200_43_20151118_00015.jpg



View of the down trees along the waterside slope and toe.

LM Start	1.93	Rating **	M	Issue No.	52
LM End	1.93	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.337336 °	39.337336 °	
			-121.633536 °	-121.633536 °	
DWR ID	DWR_MA0007_01_s_2015_52				
Action/Comments					
Prunings Inspector Comments: SBFCA Is removing trees as part of their ongoing construction project.					

Photo 1 of 1 : FA_2015_MA0007_200_52_20151118_00016.jpg



View of the down trees along the landside slope and toe.

LM Start	2.07	Rating **	M	Issue No.	44
LM End	2.07	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.339015 °	39.339015 °	
			-121.631950 °	-121.631950 °	
DWR ID	DWR_MA0007_01_f_2015_44				
Action/Comments					
Prunings					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	2.24	Rating **	M	Issue No.	222
LM End	2.24	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.341208 °	39.341208 °
				-121.630773 °	-121.630773 °
DWR ID					

Photo 1 of 2 : UCIP_FA_2015_5395.jpg



Action/Comments

Inspector Comments: FS_ID:46105
 DS_ID:16923
 EP_NO: N/A
 FS_HLM: 2.247
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 6/10/2015 Small erosion still present around concrete standpipe. Think its just caused by rain runoff. Erosion on waterward side around concrete standpipe--might be leaking. Burrow activity present on waterward slope, unable to determine if structure is still being used. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0075 however, no issues noted.5/7/2013 Same as last inspection. Need to investigate source of WS erosion.5/13/2013 SBFCA project recommends removal.11/6/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 24-inch CM irrigation through the levee 12.7 feet below the crown. Flap gate on the waterward end. Concrete distribution box at the waterward toe. Second concrete distribution box connected to deep well pump located 400-500 feet from landward toe. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 28+00). (USACE O&M Manual, 1957) Permit No. 18710 issued in 2011 to continue using existing 24-inch irrigation pipe.
 FS Date: 07/01/2015

View of crossing and standpipe located on waterward end.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	2.24	Rating **	M	Issue No.	222 (cont)
LM End	2.24	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.341208 °	39.341208 °
				-121.630773 °	-121.630773 °
DWR ID					

Photo 2 of 2 : UCIP_FA_2015_5396.jpg



Action/Comments

Inspector Comments: FS_ID:46105
 DS_ID:16923
 EP_NO: N/A
 FS_HLM: 2.247
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 6/10/2015 Small erosion still present around concrete standpipe. Think its just caused by rain runoff. Erosion on waterward side around concrete standpipe--might be leaking. Burrow activity present on waterward slope, unable to determine if structure is still being used. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0075 however, no issues noted.5/7/2013 Same as last inspection. Need to investigate source of WS erosion.5/13/2013 SBFCA project recommends removal.11/6/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 24-inch CM irrigation through the levee 12.7 feet below the crown. Flap gate on the waterward end. Concrete distribution box at the waterward toe. Second concrete distribution box connected to deep well pump located 400-500 feet from landward toe. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 28+00). (USACE O&M Manual, 1957) Permit No. 18710 issued in 2011 to continue using existing 24-inch irrigation pipe.
 FS Date: 07/01/2015

View of levee crown looking upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	2.36	Rating **	M	Issue No.	223
LM End	2.36	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.342859 °	39.342859 °
				-121.629909 °	-121.629909 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46106 DS_ID:20817 EP_NO: N/A FS_HLM: 2.372 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/10/2015 Air vac is still bent over. Need permit authorizing work. 5/7/2013 Need to find owner of structure. 5/13/2013 Permit number and owner in detailed report book. 11/6/2013 Air vac bent over and both metal posts are laying at toe of levee. 5/19/2014 Same as last inspection. 12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: Air vac on waterward shoulder protected by two metal posts. No other signs of encroachment are present. FS Date: 07/01/2015					

Photo 1 of 2 : UCIP_FA_2015_5458.jpg



View of waterward side at crossing.

Photo 2 of 2 : UCIP_FA_2015_5459.jpg



Overview of levee crown looking downstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	2.56	Rating **	M	Issue No.	224
LM End	2.56	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.345638 °	39.345638 °
				-121.629607 °	-121.629607 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46107 DS_ID:16910 EP_NO: N/A FS_HLM: 2.569 Repair Type: Non-Urgent Crossing Status: Found					

Photo 1 of 3 : UCIP_FA_2015_5460.jpg



View of levee crown looking upstream.

LM Start	2.56	Rating **	M	Issue No.	224 (cont)
LM End	2.56	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_5461.jpg



View of landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	2.56	Rating **	M	Issue No.	224 (cont)
LM End	2.56	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.345638 °	39.345638 °
				-121.629607 °	-121.629607 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46107 DS_ID:16910 EP_NO: N/A FS_HLM: 2.569 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_5462.jpg



View of flap gate located on waterward side.

LM Start	2.73	Rating **	M	Issue No.	225
LM End	2.73	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.347977 °	39.347977 °
				-121.630337 °	-121.630337 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46109 DS_ID:16921 EP_NO: N/A FS_HLM: 2.742 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/10/2015 Riser is still damaged and cant locate signs of pipe on LS.CMP riser damage-repair needed. Unable to locate pipe on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0090 however, no issues noted.5/7/2013 Same as last inspection, rodent activity near crossing, need to repair rodent hole on WS.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/6/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drain pipe through the levee, 25.5 feet below the crown. Slide gate in 36-inch CM pipe riser on the waterward slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 52+50). (USACE O&M Manual, 1957) FS Date: 07/01/2015					

Photo 1 of 3 : UCIP_FA_2015_5463.jpg



View of landward side.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	2.73	Rating **	M	Issue No.	225 (cont)
LM End	2.73	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.347977 °	39.347977 °
				-121.630337 °	-121.630337 °
DWR ID					

Photo 2 of 3 : UCIP_FA_2015_5464.jpg



Action/Comments

Inspector Comments: FS_ID:46109
 DS_ID:16921
 EP_NO: N/A
 FS_HLM: 2.742
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 6/10/2015 Riser is still damaged and cant locate signs of pipe on LS.CMP riser damage-repair needed. Unable to locate pipe on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0090 however, no issues noted.5/7/2013 Same as last inspection, rodent activity near crossing, need to repair rodent hole on WS.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/6/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 24-inch CM drain pipe through the levee, 25.5 feet below the crown. Slide gate in 36-inch CM pipe riser on the waterward slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 52+50). (USACE O&M Manual, 1957)
 FS Date: 07/01/2015

View of waterward slope looking upstream. Matt is standing near CMP riser.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	2.73	Rating **	M	Issue No.	225 (cont)
LM End	2.73	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.347977 °	39.347977 °
				-121.630337 °	-121.630337 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46109 DS_ID:16921 EP_NO: N/A FS_HLM: 2.742 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/10/2015 Riser is still damaged and cant locate signs of pipe on LS.CMP riser damage-repair needed. Unable to locate pipe on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0090 however, no issues noted.5/7/2013 Same as last inspection, rodent activity near crossing, need to repair rodent hole on WS.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/6/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drain pipe through the levee, 25.5 feet below the crown. Slide gate in 36-inch CM pipe riser on the waterward slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 52+50). (USACE O&M Manual, 1957) FS Date: 07/01/2015					

Photo 3 of 3 : UCIP_FA_2015_5465.jpg



Overview of levee crown looking upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	2.81	Rating **	M	Issue No.	226
LM End	2.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.349158 °	39.349158 °
				-121.630354 °	-121.630354 °
DWR ID					

Photo 1 of 3 : UCIP_FA_2015_5527.jpg



Action/Comments

Inspector Comments: FS_ID:46110
 DS_ID:16919
 EP_NO: 5722
 FS_HLM: 2.825
 Repair Type: Non-Urgent
 Crossing Status: Indicator Found
 UCIP Comments: 6/10/2015 Same as last inspection.dense burrow activity on crown and slopes;5/7/2013 Same as last inspection. WS sediment drop above concrete stand pipe. Coordinate with owner and levee inspector to address issue.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/6/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 1-12 inch cement coated and lined steel sewer pipe sleeved through the existing 24-inch CM pipe. Annular space pressure grouted. A 36 inch diameter reinforced concrete pipe riser is located on the waterward side. (Permit No. 5722-1968) The existing 24-inch CMP matches the Drainage or Irrigation structure referenced in the O&M manual (historic station 56+90, USACE O&M Manual, 1957) 24-inch CM pipe goes through levee at a depth of 21.4 feet below the crown. Slide gate in 36-inch reinforced concrete pipe riser located on the waterward slope. Crossing 2 of 2 see levee mile 3.35 entry.
 FS Date: 07/01/2015

View of landward slope at crossing alignment projection. No crossing or appurtenances visible on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	2.81	Rating **	M	Issue No.	226 (cont)
LM End	2.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.349158 °	39.349158 °
				-121.630354 °	-121.630354 °
DWR ID					

Photo 2 of 3 : UCIP_FA_2015_5528.jpg



Action/Comments

Inspector Comments: FS_ID:46110
 DS_ID:16919
 EP_NO: 5722
 FS_HLM: 2.825
 Repair Type: Non-Urgent
 Crossing Status: Indicator Found
 UCIP Comments: 6/10/2015 Same as last inspection.dense burrow activity on crown and slopes;5/7/2013 Same as last inspection. WS sediment drop above concrete stand pipe. Coordinate with owner and levee inspector to address issue.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/6/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 1-12 inch cement coated and lined steel sewer pipe sleeved through the existing 24-inch CM pipe. Annular space pressure grouted. A 36 inch diameter reinforced concrete pipe riser is located on the waterward side. (Permit No. 5722-1968) The existing 24-inch CMP matches the Drainage or Irrigation structure referenced in the O&M manual (historic station 56+90, USACE O&M Manual, 1957) 24-inch CM pipe goes through levee at a depth of 21.4 feet below the crown. Slide gate in 36-inch reinforced concrete pipe riser located on the waterward slope. Crossing 2 of 2 see levee mile 3.35 entry.
 FS Date: 07/01/2015

View of waterward slope looking at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	2.81	Rating **	M	Issue No.	226 (cont)
LM End	2.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.349158 °	39.349158 °
				-121.630354 °	-121.630354 °
DWR ID					

Photo 3 of 3 : UCIP_FA_2015_5529.jpg



Action/Comments

Inspector Comments: FS_ID:46110
 DS_ID:16919
 EP_NO: 5722
 FS_HLM: 2.825
 Repair Type: Non-Urgent
 Crossing Status: Indicator Found
 UCIP Comments: 6/10/2015 Same as last inspection.dense burrow activity on crown and slopes;5/7/2013 Same as last inspection. WS sediment drop above concrete stand pipe. Coordinate with owner and levee inspector to address issue.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/6/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 1-12 inch cement coated and lined steel sewer pipe sleeved through the existing 24-inch CM pipe. Annular space pressure grouted. A 36 inch diameter reinforced concrete pipe riser is located on the waterward side. (Permit No. 5722-1968) The existing 24-inch CMP matches the Drainage or Irrigation structure referenced in the O&M manual (historic station 56+90, USACE O&M Manual, 1957) 24-inch CM pipe goes through levee at a depth of 21.4 feet below the crown. Slide gate in 36-inch reinforced concrete pipe riser located on the waterward slope. Crossing 2 of 2 see levee mile 3.35 entry.
 FS Date: 07/01/2015

Overview of levee crown looking upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	3.02	Rating **	M	Issue No.	227
LM End	3.02	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.352159 °	39.352159 °
				-121.631209 °	-121.631209 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46111 DS_ID:16918 EP_NO: N/A FS_HLM: 3.044 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/10/2015 Same as last inspection. Unable to determine if this crossing has been altered, will need to coordinate with levee inspector. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0104 however, no issues reported. 5/7/2013 Structure does appear to be altered. Contact Levee Inspector to pursue NOV.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/6/2013 Same as last inspection. 5/19/2014 Same as last inspection. 12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee, 15.3 feet below the crown. A reinforced concrete pipe riser located on the waterward side. Flap gate inside riser on the waterward end. 12-inch pipe sleeved through 24-inch pipe. (USACE O&M Manual, 1957) FS Date: 07/01/2015					

Photo 1 of 3 : UCIP_FA_2015_5530.jpg



View of waterward side looking at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	3.02	Rating **	M	Issue No.	227 (cont)
LM End	3.02	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.352159 °	39.352159 °
				-121.631209 °	-121.631209 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46111 DS_ID:16918 EP_NO: N/A FS_HLM: 3.044 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/10/2015 Same as last inspection. Unable to determine if this crossing has been altered, will need to coordinate with levee inspector. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0104 however, no issues reported. 5/7/2013 Structure does appear to be altered. Contact Levee Inspector to pursue NOV.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/6/2013 Same as last inspection. 5/19/2014 Same as last inspection. 12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee, 15.3 feet below the crown. A reinforced concrete pipe riser located on the waterward side. Flap gate inside riser on the waterward end. 12-inch pipe sleeved through 24-inch pipe. (USACE O&M Manual, 1957) FS Date: 07/01/2015					

Photo 2 of 3 : UCIP_FA_2015_5531.jpg



View of levee crown looking upstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River		Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	4.39	Rating **	M	Issue No.	39
LM End	5.34	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.366547 °	39.379961 °	
			-121.647523 °	-121.650632 °	
DWR ID	DWR_MA0007_01_s_2012_39				
Action/Comments					
Ditch					

Photo 1 of 2 : FA_2015_MA0007_200_39_20151109_00004.jpg



Ag ditch landside slope and toe.

LM Start	4.39	Rating **	M	Issue No.	39 (cont)
LM End	5.34	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2015_MA0007_200_39_20151109_00005.jpg



This is a photo of the Ag ditch on the landside slope and toe.

LM Start	4.39	Rating **	M	Issue No.	6
LM End	4.46	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2015 USACE Erosion Survey, DRAFT		39.366726 °	39.367606 °	
			-121.647217 °	-121.647866 °	
DWR ID					
Action/Comments					
Inspector Comments: 2012 - Oversteepened slope with failing rock (from repair completed in 1954). Likely slope stability issues. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: FHR_50-9_R]					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	4.73	Rating **	M	Issue No.	54
LM End	4.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.371140 °	39.371140 °
				-121.649897 °	-121.649897 °
DWR ID	DWR_MA0007_01_s_2015_54				
Action/Comments					
Note and monitor erosion site.					

No Photos

LM Start	4.92	Rating **	M	Issue No.	228
LM End	4.92	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.373851 °	39.373851 °
				-121.650322 °	-121.650322 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46124 DS_ID:16943 EP_NO: N/A FS_HLM: 4.978 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/10/2015 Pipe has been removed during the SBFCA project. It was originally listed to be replaced so it may be added back in on a later date.burrow activity on waterward slope. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0160 no issues reported.5/10/2013 Barrel down inside standpipe. Slide gate difficult to operate.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/7/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 42-inch CM pipe through the levee 13.6 feet below the crown. Concrete distribution box with slide gate inside located on waterward side. 36-inch pipe goes through the waterward side berm. FS Date: 07/07/2015					

Photo 1 of 3 : UCIP_FA_2015_5604.jpg



Close up view of distribution box on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	4.92	Rating **	M	Issue No.	228 (cont)
LM End	4.92	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.373851 °	39.373851 °
				-121.650322 °	-121.650322 °
DWR ID					

Photo 2 of 3 : UCIP_FA_2015_5605.jpg



Action/Comments

Inspector Comments: FS_ID:46124
 DS_ID:16943
 EP_NO: N/A
 FS_HLM: 4.978
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 6/10/2015 Pipe has been removed during the SBFCA project. It was originally listed to be replaced so it may be added back in on a later date.burrow activity on waterward slope. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0160 no issues reported.5/10/2013 Barrel down inside standpipe. Slide gate difficult to operate.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/7/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 42-inch CM pipe through the levee 13.6 feet below the crown. Concrete distribution box with slide gate inside located on waterward side. 36-inch pipe goes through the waterward side berm.
 FS Date: 07/07/2015

View of concrete distribution box with slide gate inside.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	4.92	Rating **	M	Issue No.	228 (cont)
LM End	4.92	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.373851 °	39.373851 °
				-121.650322 °	-121.650322 °
DWR ID					

Photo 3 of 3 : UCIP_FA_2015_5606.jpg



Action/Comments

Inspector Comments: FS_ID:46124
 DS_ID:16943
 EP_NO: N/A
 FS_HLM: 4.978
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 6/10/2015 Pipe has been removed during the SBFCA project. It was originally listed to be replaced so it may be added back in on a later date.burrow activity on waterward slope. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0160 no issues reported.5/10/2013 Barrel down inside standpipe. Slide gate difficult to operate.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/7/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 42-inch CM pipe through the levee 13.6 feet below the crown. Concrete distribution box with slide gate inside located on waterward side. 36-inch pipe goes through the waterward side berm.
 FS Date: 07/07/2015

Overview of levee crown and slopes at crossing looking upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	5.16	Rating **	U	Issue No.	229
LM End	5.16	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.377343 °	39.377343 °
				-121.650450 °	-121.650450 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46125 DS_ID:23095 EP_NO: N/A FS_HLM: 5.22 Repair Type: Urgent Crossing Status: Found UCIP Comments: 6/10/2015 Still damaged at WS slope. Wires are still exposed but crossing is listed to be replaced sometime during the SBFCA project.5/9/2013 Appeared to be damaged where it exits the WS slope, minor settling on LS toe, unable to obtain permit. SBFCA project recommends replacing in accordance with title 23.11/7/2013 More damage has occurred to power wires. Live wires are now exposed. Power company is aware of the problem and are going to fix it.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 2.5 inch steel electrical conduit 3-4 feet below crown of levee. FS Date: 07/07/2015					

Photo 1 of 3 : UCIP_FA_2015_5607.jpg



WS slope

LM Start	5.16	Rating **	U	Issue No.	229 (cont)
LM End	5.16	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_5608.jpg



Overview of crossing from crown looking U/S

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	5.16	Rating **	U	Issue No.	229 (cont)
LM End	5.16	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.377343 °	39.377343 °
				-121.650450 °	-121.650450 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46125 DS_ID:23095 EP_NO: N/A FS_HLM: 5.22 Repair Type: Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_5609.jpg



Overview of crossing from crown looking D/S

LM Start	5.33	Rating **	M	Issue No.	230
LM End	5.33	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.379838 °	39.379838 °
				-121.650611 °	-121.650611 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46126 DS_ID:16920 EP_NO: N/A FS_HLM: 5.398 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/10/2015 Unable to locate any signs of this crossing during this inspection. Looks to have been removed for the SBFCA project.No access to landward side--residential property; unable to determine the type of abandonment for this crossing; need to determine if there is a positive closure device on waterward side. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0173 unknown.5/10/2013 Same as last inspection.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/7/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 24-inch CM irrigation pipe through the levee, 14.0 feet below the crown. Slide gate on the landward side. Slide gate in concrete pipe riser on the waterward berm. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 191+13). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 1 of 2 : UCIP_FA_2015_5619.jpg



View of landward side--no access.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	5.33	Rating **	M	Issue No.	230 (cont)
LM End	5.33	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.379838 °	39.379838 °
				-121.650611 °	-121.650611 °
DWR ID					
Action/Comments					
<p>Inspector Comments: FS_ID:46126 DS_ID:16920 EP_NO: N/A FS_HLM: 5.398 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/10/2015 Unable to locate any signs of this crossing during this inspection. Looks to have been removed for the SBFCA project.No access to landward side--residential property; unable to determine the type of abandonment for this crossing; need to determine if there is a positive closure device on waterward side. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0173 unknown.5/10/2013 Same as last inspection.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/7/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 24-inch CM irrigation pipe through the levee, 14.0 feet below the crown. Slide gate on the landward side. Slide gate in concrete pipe riser on the waterward berm. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 191+13). (USACE O&M Manual, 1957) FS Date: 07/07/2015</p>					

Photo 2 of 2 : UCIP_FA_2015_5620.jpg



View of waterward side.

LM Start	5.40	Rating **	M	Issue No.	5
LM End	6.00	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.380272 °	39.380527 °
				-121.649622 °	-121.638423 °
DWR ID	DWR_MA0007_01_f_2012_5				
Action/Comments					
<p>Agricultural tilling Inspector Comments: This site is property of Cilker Revocable Trust, it has an encroachment violation notice dated 7-23-2012, enforcement action : 2011-321. The stockpile has been removed, excavation at the levee toe is still present.</p>					

Photo 1 of 1 : FA_2015_MA0007_200_5_20151109_00001.jpg



This photo shows vehicle traffic has cut into the toe of the levee.

<p>* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown</p>	<p>** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain</p>	<p>+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement</p>
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	5.42	Rating **	M	Issue No.	231
LM End	5.42	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.380377 °	39.380377 °
				-121.649344 °	-121.649344 °
DWR ID					

Photo 1 of 3 : UCIP_FA_2015_5621.jpg



Action/Comments

Inspector Comments: FS_ID:46127
 DS_ID:16922
 EP_NO: N/A
 FS_HLM: 5.485
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 6/10/2015 Sediment still blocking the flap gates on WS. LS inlet being overgrown by vegetation in the ditch. Sediment blocking flap gates on waterward side--need to clear sediment. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0180 no issues reported.5/10/2013 Same as last inspection.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/7/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 1 of 2: 60 inch pipe (downstream pipe), through the levee, 23.4 feet below the crown. Flap gate on the waterward end. Concrete headwalls on both ends. Ditch at waterward outlet. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 195+80). (USACE O&M Manual, 1957)
 FS Date: 07/07/2015

View of waterward side. Concrete headwall located at levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	5.42	Rating **	M	Issue No.	231 (cont)
LM End	5.42	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.380377 °	39.380377 °
				-121.649344 °	-121.649344 °
DWR ID					

Photo 2 of 3 : UCIP_FA_2015_5622.jpg



Action/Comments

Inspector Comments: FS_ID:46127
 DS_ID:16922
 EP_NO: N/A
 FS_HLM: 5.485
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 6/10/2015 Sediment still blocking the flap gates on WS. LS inlet being overgrown by vegetation in the ditch. Sediment blocking flap gates on waterward side--need to clear sediment. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0180 no issues reported. 5/10/2013 Same as last inspection. 5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/7/2013 Same as last inspection. 5/19/2014 Same as last inspection. 12/29/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 1 of 2: 60 inch pipe (downstream pipe), through the levee, 23.4 feet below the crown. Flap gate on the waterward end. Concrete headwalls on both ends. Ditch at waterward outlet. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 195+80). (USACE O&M Manual, 1957)
 FS Date: 07/07/2015

View of headwall structure on waterward side. Sediment built up

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	5.42	Rating **	M	Issue No.	231 (cont)
LM End	5.42	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.380377 °	39.380377 °
				-121.649344 °	-121.649344 °
DWR ID					

Photo 3 of 3 : UCIP_FA_2015_5623.jpg



Action/Comments

Inspector Comments: FS_ID:46127
 DS_ID:16922
 EP_NO: N/A
 FS_HLM: 5.485
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 6/10/2015 Sediment still blocking the flap gates on WS. LS inlet being overgrown by vegetation in the ditch. Sediment blocking flap gates on waterward side--need to clear sediment. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0180 no issues reported.5/10/2013 Same as last inspection.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/7/2013 Same as last inspection.5/19/2014 Same as last inspection.12/29/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 1 of 2: 60 inch pipe (downstream pipe), through the levee, 23.4 feet below the crown. Flap gate on the waterward end. Concrete headwalls on both ends. Ditch at waterward outlet. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 195+80). (USACE O&M Manual, 1957)
 FS Date: 07/07/2015

Sediment blocking gates on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	5.42	Rating **	M	Issue No.	232
LM End	5.42	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.380377 °	39.380377 °
				-121.649319 °	-121.649319 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46128 DS_ID:17013 EP_NO: N/A FS_HLM: 5.486 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/10/2015 Sediment still blocking the flap gates on WS. LS inlet being overgrown by vegetation in the ditch. Sediment blocking flap gate--need to remove sediment to make flap gates operational. 5/10/2013 Same as last inspection. 5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/7/2013 Same as last inspection. 5/19/2014 Same as last inspection. 12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 2 of 2: 60 inch pipe (upstream pipe), through the levee, 23.4 feet below the crown. Flap gate on the waterward end. Concrete headwalls on both ends. Ditch located at waterward outlet. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 195+80). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 1 of 3 : UCIP_FA_2015_5624.jpg



Sediment build up against flap gates.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	5.42	Rating **	M	Issue No.	232 (cont)
LM End	5.42	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.380377 °	39.380377 °
				-121.649319 °	-121.649319 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46128 DS_ID:17013 EP_NO: N/A FS_HLM: 5.486 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/10/2015 Sediment still blocking the flap gates on WS. LS inlet being overgrown by vegetation in the ditch. Sediment blocking flap gate--need to remove sediment to make flap gates operational. 5/10/2013 Same as last inspection. 5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/7/2013 Same as last inspection. 5/19/2014 Same as last inspection. 12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 2 of 2: 60 inch pipe (upstream pipe), through the levee, 23.4 feet below the crown. Flap gate on the waterward end. Concrete headwalls on both ends. Ditch located at waterward outlet. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 195+80). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 2 of 3 : UCIP_FA_2015_5625.jpg



View of headwall and flap gates located on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	5.42	Rating **	M	Issue No.	232 (cont)
LM End	5.42	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.380377 °	39.380377 °
				-121.649319 °	-121.649319 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46128 DS_ID:17013 EP_NO: N/A FS_HLM: 5.486 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/10/2015 Sediment still blocking the flap gates on WS. LS inlet being overgrown by vegetation in the ditch. Sediment blocking flap gate--need to remove sediment to make flap gates operational. 5/10/2013 Same as last inspection. 5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/7/2013 Same as last inspection. 5/19/2014 Same as last inspection. 12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 2 of 2: 60 inch pipe (upstream pipe), through the levee, 23.4 feet below the crown. Flap gate on the waterward end. Concrete headwalls on both ends. Ditch located at waterward outlet. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 195+80). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 3 of 3 : UCIP_FA_2015_5626.jpg



View of waterward side with clear slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	7.70	Rating **	M	Issue No.	233
LM End	7.70	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.398336 °	39.398336 °
				-121.630529 °	-121.630529 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46134 DS_ID:16960 EP_NO: 17895 FS_HLM: 7.85 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 6/10/2015 Minor erosion still present near air vent.localized erosion at air vent located on waterward shoulder; this crossing appears to have leaking at the air vent--will need to determine reason for erosion at air vent (vehicles going over vent?); also recommend installing utility marker.11/7/2013 Same as last inspection.5/19/2014 Same as last inspection.12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 5-inch diameter steel irrigation pipe through the right (west) bank levee and connect to existing pipe within the overflow area of the Feather River. (Permit No. 17895-2005) FS Date: 07/07/2015					

Photo 1 of 3 : UCIP_FA_2015_5721.jpg



Photo 1 of 2. View of localized erosion at air vent located on waterward shoulder.

LM Start	7.70	Rating **	M	Issue No.	233 (cont)
LM End	7.70	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_5722.jpg



View of waterward side and levee crown looking upstream towards crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	7.70	Rating **	M	Issue No.	233 (cont)
LM End	7.70	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.398336 °	39.398336 °
				-121.630529 °	-121.630529 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46134 DS_ID:16960 EP_NO: 17895 FS_HLM: 7.85 Repair Type: Non-Urgent Crossing Status: Indicator Found					

Photo 3 of 3 : UCIP_FA_2015_5723.jpg



View of landward side and levee crown looking upstream towards crossing.

LM Start	8.45	Rating **	U	Issue No.	234
LM End	8.45	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.404475 °	39.404475 °
				-121.636958 °	-121.636958 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46137 DS_ID:23096 EP_NO: N/A FS_HLM: 8.56 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 6/10/2015 Same as last inspection.5/9/13 Depression along WS slope that could indicate a leak or poor compaction. Unknown permit number need to coordinate with landowner to find out more info.11/7/2013 Same as last inspection.5/19/2014 Same as last inspection.12/30/2014 Same as last inspection. FIELD_STRUCTURE_DESC: Irrigation crossing through levee depth unknown. Steel stand pipe located on landward toe. Also present is 4.5 inch PVC pipe near stand pipe located on landward toe. FS Date: 07/07/2015					

Photo 1 of 3 : UCIP_FA_2015_5724.jpg



PVC and steel pipe on LS toe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	8.45	Rating **	U	Issue No.	234 (cont)
LM End	8.45	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.404475 °	39.404475 °
				-121.636958 °	-121.636958 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46137 DS_ID:23096 EP_NO: N/A FS_HLM: 8.56 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 6/10/2015 Same as last inspection.5/9/13 Depression along WS slope that could indicate a leak or poor compaction. Unknown permit number need to coordinate with landowner to find out more info.11/7/2013 Same as last inspection.5/19/2014 Same as last inspection.12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Irrigation crossing through levee depth unknown. Steel stand pipe located on landward toe. Also present is 4.5 inch PVC pipe near stand pipe located on landward toe. FS Date: 07/07/2015					

Photo 2 of 3 : UCIP_FA_2015_5725.jpg



LS slope

Photo 3 of 3 : UCIP_FA_2015_5726.jpg



Overview from crown looking U/S

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	8.60	Rating **	U	Issue No.	235
LM End	8.60	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.406614 °	39.406614 °
				-121.637384 °	-121.637384 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46138 DS_ID:23094 EP_NO: N/A FS_HLM: 8.72 Repair Type: Urgent Crossing Status: Indicator Found					

Photo 1 of 2 : UCIP_FA_2015_5727.jpg



LS slope with steel standpipe

LM Start	8.60	Rating **	U	Issue No.	235 (cont)
LM End	8.60	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2015_5728.jpg



Overview looking D/S

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	8.64	Rating **	M	Issue No.	236
LM End	8.64	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.407159 °	39.407159 °
				-121.637409 °	-121.637409 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46139 DS_ID:16949 EP_NO: 14200 FS_HLM: 8.756 Repair Type: Non-Urgent Crossing Status: Indicator Found					

Photo 1 of 3 : UCIP_FA_2015_5729.jpg



View of cavity collapse along assumed pipe alignment located on landward shoulder.

LM Start	8.64	Rating **	M	Issue No.	236 (cont)
LM End	8.64	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_5730.jpg



View of waterward side and levee crown looking upstream at crossing alignment.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	8.64	Rating **	M	Issue No.	236 (cont)
LM End	8.64	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.407159 °	39.407159 °
				-121.637409 °	-121.637409 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46139 DS_ID:16949 EP_NO: 14200 FS_HLM: 8.756 Repair Type: Non-Urgent Crossing Status: Indicator Found					

Photo 3 of 3 : UCIP_FA_2015_5731.jpg



View of landward side and levee crown looking upstream at crossing. Staff is standing adjacent to cavity located on landward shoulder.

LM Start	9.53	Rating **	M	Issue No.	237
LM End	9.53	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.416284 °	39.416284 °
				-121.632224 °	-121.632224 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46140 DS_ID:16948 EP_NO: N/A FS_HLM: 9.667 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/11/2015 WS standpipe was overgrown with blackberries and unable to be inspected. unable to determine the condition of the slide gate inside waterward concrete standpipe blackberry shrubs overgrown against access latter; 5/10/2013 Same as last inspection. Cleared back some of the black berries but live birds nest on ladder prevented me from inspecting inside of standpipe. Recommend spraying the black berries to clear path to ladder. 5/13/2013 SBFCA project recommends relacing in accordance with title 23. 11/7/2013 Same as last inspection. 5/20/2014 Same as last inspection. 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 14.0 feet below the crown. Slide gate in 36-inch concrete standpipe at the waterward toe. Concrete distribution box at the landward toe. FS Date: 07/07/2015					

Photo 1 of 3 : UCIP_FA_2015_5732.jpg



View of concrete standpipe with blackberry shrubs preventing access to latter.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	9.53	Rating **	M	Issue No.	237 (cont)
LM End	9.53	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
			Start	End	
Item	DWR UCIP Field Study			39.416284 °	39.416284 °
				-121.632224 °	-121.632224 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46140 DS_ID:16948 EP_NO: N/A FS_HLM: 9.667 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/11/2015 WS standpipe was overgrown with blackberries and unable to be inspected. unable to determine the condition of the slide gate inside waterward concrete standpipe blackberry shrubs overgrown against access ladder; 5/10/2013 Same as last inspection. Cleared back some of the black berries but live birds nest on ladder prevented me from inspecting inside of standpipe. Recommend spraying the black berries to clear path to ladder. 5/13/2013 SBFCA project recommends relacing in accordance with title 23. 11/7/2013 Same as last inspection. 5/20/2014 Same as last inspection. 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 14.0 feet below the crown. Slide gate in 36-inch concrete standpipe at the waterward toe. Concrete distribution box at the landward toe. FS Date: 07/07/2015					

Photo 3 of 3 : UCIP_FA_2015_5734.jpg



View of landward side looking upstream at crossing. Concrete distribution box located on landward toe.

LM Start	9.65	Rating **	U	Issue No.	45
LM End	9.65	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
			Start	End	
Item	Encroachments			39.416384 °	39.416384 °
				-121.634503 °	-121.634503 °
DWR ID	DWR_MA0007_01_s_2012_45				
Action/Comments					
Building					

Photo 1 of 1 : FA_2015_MA0007_200_45_20151109_00008.jpg



This photo shows a building at the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	9.69	Rating **	M	Issue No.	51
LM End	9.69	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.416864 °	39.416864 °	
			-121.634822 °	-121.634822 °	
DWR ID	DWR_MA0007_01_s_2014_51				
Action/Comments					
Debris Inspector Comments: Irrigation pipe on landward levee slope. Spring 2014.					

Photo 1 of 1 : FA_2015_MA0007_200_51_20151109_00010.jpg



This photo was taken from the levee crown facing north looking at irrigation pipe placed on the levee slope near the landward toe. Spring 2014.

LM Start	9.82	Rating **	M	Issue No.	50
LM End	9.82	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.418720 °	39.418720 °	
			-121.634927 °	-121.634927 °	
DWR ID	DWR_MA0007_01_f_2015_50				
Action/Comments					
Prunings Inspector Comments: Remove the prunings from the landside toe.					

Photo 1 of 1 : FA_2015_MA0007_200_50_20151118_00018.jpg



View of the prunings along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	9.97	Rating **	M	Issue No.	238
LM End	9.97	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.420736 °	39.420736 °
				-121.635321 °	-121.635321 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46142 DS_ID:16947 EP_NO: N/A FS_HLM: 10.116 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 6/11/2015 Abandoned crossing. SBFCA project recommends removal. Crossing appears to be abandoned; slide gate located inside concrete standpipe is buried with trash; no other features were visible during inspection. This crossing needs to be properly abandoned. 5/10/2013 Same as last inspection. 5/13/2013 SBFCA project recommends removal. 11/7/2013 Same as last inspection. 5/20/2014 Same as last inspection. 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 10-inch reinforced concrete encased steel irrigation pipe through the levee, 14.5 feet below the crown. Slide gate in 24-inch concrete standpipe at the waterward toe. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 437+30). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 1 of 3 : UCIP_FA_2015_5752.jpg



View of concrete standpipe located at waterward toe. Slide gate inside riser is buried with trash.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	9.97	Rating **	M	Issue No.	238 (cont)
LM End	9.97	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.420736 °	39.420736 °
				-121.635321 °	-121.635321 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46142 DS_ID:16947 EP_NO: N/A FS_HLM: 10.116 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 6/11/2015 Abandoned crossing. SBFCA project recommends removal. Crossing appears to be abandoned; slide gate located inside concrete standpipe is buried with trash; no other features were visible during inspection. This crossing needs to be properly abandoned. 5/10/2013 Same as last inspection. 5/13/2013 SBFCA project recommends removal. 11/7/2013 Same as last inspection. 5/20/2014 Same as last inspection. 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 10-inch reinforced concrete encased steel irrigation pipe through the levee, 14.5 feet below the crown. Slide gate in 24-inch concrete standpipe at the waterward toe. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 437+30). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 2 of 3 : UCIP_FA_2015_5753.jpg



View of waterward shoulder and slope looking upstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	9.97	Rating **	M	Issue No.	238 (cont)
LM End	9.97	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.420736 °	39.420736 °
				-121.635321 °	-121.635321 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46142 DS_ID:16947 EP_NO: N/A FS_HLM: 10.116 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 6/11/2015 Abandoned crossing. SBFCA project recommends removal. Crossing appears to be abandoned; slide gate located inside concrete standpipe is buried with trash; no other features were visible during inspection. This crossing needs to be properly abandoned. 5/10/2013 Same as last inspection. 5/13/2013 SBFCA project recommends removal. 11/7/2013 Same as last inspection. 5/20/2014 Same as last inspection. 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 10-inch reinforced concrete encased steel irrigation pipe through the levee, 14.5 feet below the crown. Slide gate in 24-inch concrete standpipe at the waterward toe. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 437+30). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 3 of 3 : UCIP_FA_2015_5754.jpg



View of landward side and levee crown looking upstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	10.10	Rating **	M	Issue No.	239
LM End	10.10	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.420905 °	39.420905 °
				-121.637707 °	-121.637707 °
DWR ID					

Photo 1 of 3 : UCIP_FA_2015_5755.jpg



Action/Comments
 Inspector Comments: FS_ID:46143
 DS_ID:16946
 EP_NO: N/A
 FS_HLM: 10.247
 Repair Type: Non-Urgent
 Crossing Status: Indicator Found
 UCIP Comments: 6/11/2015 Same as last inspection. unable to determine if this crossing still is in use, signs of depression on waterward shoulder, pump located on LS (GW?) valve on waterward toe. No slide gate or concrete standpipe present; structure appears to have been modified--need permit issued for modifications.5/10/2013 Same as last inspection.5/13/2013 SBFCA project recommends removal.11/7/2013 Same as last inspection.5/20/2014 Same as last inspection.12/30/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 14.5 feet below the crown. Slide gate in concrete standpipe and pump on the landward side.
 FS Date: 07/07/2015

View of landward side and levee slope. Pump located on landward toe--GW pump or part of structure.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	10.10	Rating **	M	Issue No.	239 (cont)
LM End	10.10	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.420905 °	39.420905 °
				-121.637707 °	-121.637707 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46143 DS_ID:16946 EP_NO: N/A FS_HLM: 10.247 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 6/11/2015 Same as last inspection. unable to determine if this crossing still is in use, signs of depression on waterward shoulder, pump located on LS (GW?) valve on waterward toe. No slide gate or concrete standpipe present; structure appears to have been modified--need permit issued for modifications. 5/10/2013 Same as last inspection. 5/13/2013 SBFCA project recommends removal. 11/7/2013 Same as last inspection. 5/20/2014 Same as last inspection. 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 14.5 feet below the crown. Slide gate in concrete standpipe and pump on the landward side. FS Date: 07/07/2015					

Photo 2 of 3 : UCIP_FA_2015_5756.jpg



Waterward shoulder with a low point along filled with rocks and brick pieces with what appears to be crossing alignment.

LM Start	10.10	Rating **	M	Issue No.	239 (cont)
LM End	10.10	Issue Type +	En	Location *	LS

Photo 3 of 3 : UCIP_FA_2015_5757.jpg



View of waterward side and levee crown looking upstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	10.68	Rating **	M	Issue No.	240
LM End	10.68	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.426781 °	39.426781 °
				-121.642078 °	-121.642078 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46144 DS_ID:16933 EP_NO: N/A FS_HLM: 10.833 Repair Type: Non-Urgent Crossing Status: Found					

Photo 1 of 3 : UCIP_FA_2015_5758.jpg



View of landward side--no signs of crossing or appurtances are present.

LM Start	10.68	Rating **	M	Issue No.	240 (cont)
LM End	10.68	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_5759.jpg



View of concrete standpipe located on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	10.68	Rating **	M	Issue No.	240 (cont)
LM End	10.68	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.426781 °	39.426781 °
				-121.642078 °	-121.642078 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46144 DS_ID:16933 EP_NO: N/A FS_HLM: 10.833 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_5760.jpg



View of waterward side looking upstream at slope and concrete standpipe.

LM Start	10.79	Rating **	M	Issue No.	241
LM End	10.79	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.428380 °	39.428380 °
				-121.642228 °	-121.642228 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46145 DS_ID:16944 EP_NO: N/A FS_HLM: 10.947 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 6/11/2015 Headwall still buried. SBFCA project recommends removal.crossing appears to be abandoned--unknown method of abandonment; headwall buried with a small section of headwall exposed.5/10/2013 Same as last inspection.5/13/2013 SBFCA project recommends removal.11/7/2013 Same as last inspection.5/20/2014 Same as last inspection.12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 24-inch CM drainpipe through the levee, 17.5 feet below the crown. Concrete headwall at landward toe. Flap gate on waterward end covered with dirt. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 476+60). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 1 of 3 : UCIP_FA_2015_5345.jpg



View of levee crown looking upstream from crossing.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	10.79	Rating **	M	Issue No.	241 (cont)
LM End	10.79	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.428380 °	39.428380 °
				-121.642228 °	-121.642228 °
DWR ID					

Photo 2 of 3 : UCIP_FA_2015_5346.jpg



Action/Comments

Inspector Comments: FS_ID:46145
 DS_ID:16944
 EP_NO: N/A
 FS_HLM: 10.947
 Repair Type: Non-Urgent
 Crossing Status: Indicator Found
 UCIP Comments: 6/11/2015 Headwall still buried. SBFCA project recommends removal.crossing appears to be abandoned--unknown method of abandonment; headwall buried with a small section of headwall exposed.5/10/2013 Same as last inspection.5/13/2013 SBFCA project recommends removal.11/7/2013 Same as last inspection.5/20/2014 Same as last inspection.12/30/2014 Same as last inspection.
 FIELD_STRUCT_DESC: Abandoned 24-inch CM drainpipe through the levee, 17.5 feet below the crown. Concrete headwall at landward toe. Flap gate on waterward end covered with dirt. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 476+60). (USACE O&M Manual, 1957)
 FS Date: 07/07/2015

Overview of levee crown looking downstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	10.79	Rating **	M	Issue No.	241 (cont)
LM End	10.79	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.428380 °	39.428380 °
				-121.642228 °	-121.642228 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46145 DS_ID:16944 EP_NO: N/A FS_HLM: 10.947 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 6/11/2015 Headwall still buried. SBFCA project recommends removal.crossing appears to be abandoned--unknown method of abandonment; headwall buried with a small section of headwall exposed.5/10/2013 Same as last inspection.5/13/2013 SBFCA project recommends removal.11/7/2013 Same as last inspection.5/20/2014 Same as last inspection.12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 24-inch CM drainpipe through the levee, 17.5 feet below the crown. Concrete headwall at landward toe. Flap gate on waterward end covered with dirt. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 476+60). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 3 of 3 : UCIP_FA_2015_5761.jpg



View of waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	11.01	Rating **	M	Issue No.	242 (cont)
LM End	11.01	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.430540 °	39.430540 °
				-121.645118 °	-121.645118 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46148 DS_ID:16941 EP_NO: N/A FS_HLM: 11.167 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/11/2015 Same as last inspection. waterward side-missing top cover of the CMP riser; debris inside CMP riser; wheel handle missing from slide gate. Unable to determine condition of slide gate face. landward side-crossing not visible. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0330 no issues reported. 5/10/2013 Top cover has fallen down inside standpipe and may prevent gate from fully closing. Wheel to operate gate still missing. 5/13/2013 SBFCA project recommends removal. 11/7/2013 Same as last inspection. 5/20/2014 Same as last inspection. 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch reinforced concrete encased CM irrigation pipe through the levee, 21.0 feet below the crown. Slide gate in 36-inch CM pipe riser on the waterward slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 490+50). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 2 of 3 : UCIP_FA_2015_5348.jpg



View of waterward side looking upstream at crossing. CMP riser located on waterward shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	11.01	Rating **	M	Issue No.	242 (cont)
LM End	11.01	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.430540 °	39.430540 °
				-121.645118 °	-121.645118 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46148 DS_ID:16941 EP_NO: N/A FS_HLM: 11.167 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/11/2015 Same as last inspection. waterward side-missing top cover of the CMP riser; debris inside CMP riser; wheel handle missing from slide gate. Unable to determine condition of slide gate face. landward side-crossing not visible. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0330 no issues reported. 5/10/2013 Top cover has fallen down inside standpipe and may prevent gate from fully closing. Wheel to operate gate still missing. 5/13/2013 SBFCA project recommends removal. 11/7/2013 Same as last inspection. 5/20/2014 Same as last inspection. 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch reinforced concrete encased CM irrigation pipe through the levee, 21.0 feet below the crown. Slide gate in 36-inch CM pipe riser on the waterward slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 490+50). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 3 of 3 : UCIP_FA_2015_5349.jpg



View of landward side looking upstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	11.08	Rating **	M	Issue No.	243
LM End	11.08	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.431546 °	39.431546 °
				-121.645474 °	-121.645474 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46150 DS_ID:16939 EP_NO: N/A FS_HLM: 11.24 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/11/2015 Both pipe ends are beeing overgrown by vegetation and are getting hard to inspect. Vegetation needs to be cleared away.flash boards missing on LS. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0332 no issues reported.5/10/2013 Same as last inspection. Talking with farmer he said the pipe may be getting removed.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/7/2013 Same as last inspection.5/20/2014 Same as last inspection.12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee. 18.9 feet below the crown. Flap gate on the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 494+50). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 1 of 3 : UCIP_FA_2015_5350.jpg



View of waterward side looking upstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	11.08	Rating **	M	Issue No.	243 (cont)
LM End	11.08	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.431546 °	39.431546 °
				-121.645474 °	-121.645474 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46150 DS_ID:16939 EP_NO: N/A FS_HLM: 11.24 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/11/2015 Both pipe ends are beeing overgrown by vegetation and are getting hard to inspect. Vegetation needs to be cleared away.flash boards missing on LS. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0332 no issues reported.5/10/2013 Same as last inspection. Talking with farmer he said the pipe may be getting removed.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/7/2013 Same as last inspection.5/20/2014 Same as last inspection.12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee. 18.9 feet below the crown. Flap gate on the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 494+50). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 2 of 3 : UCIP_FA_2015_5351.jpg



View of landward side looking upstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	11.08	Rating **	M	Issue No.	243 (cont)
LM End	11.08	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.431546 °	39.431546 °
				-121.645474 °	-121.645474 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46150 DS_ID:16939 EP_NO: N/A FS_HLM: 11.24 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/11/2015 Both pipe ends are beeing overgrown by vegetation and are getting hard to inspect. Vegetation needs to be cleared away.flash boards missing on LS. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0332 no issues reported.5/10/2013 Same as last inspection. Talking with farmer he said the pipe may be getting removed.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/7/2013 Same as last inspection.5/20/2014 Same as last inspection.12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee. 18.9 feet below the crown. Flap gate on the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 494+50). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 3 of 3 : UCIP_FA_2015_5352.jpg



View of waterward slope and outlet.

LM Start	11.08	Rating **	M	Issue No.	15
LM End	11.08	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.431591 °	39.431591 °
				-121.645477 °	-121.645477 °
DWR ID	DWR_MA0007_01_s_2013_15				
Action/Comments					
Building Inspector Comments: Building appears to be abandoned.					

Photo 1 of 1 : FA_2015_MA0007_200_15_20151109_00002.jpg



landside levee toe- Abandoned building.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	11.12	Rating **	M	Issue No.	244
LM End	11.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.432143 °	39.432143 °
				-121.645516 °	-121.645516 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46151 DS_ID:16938 EP_NO: N/A FS_HLM: 11.282 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/11/2015 Scour still present near the WS apron. burrow activity near headwall on landward side; scour near concrete apron and below apron; This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0336 no issues reported.5/10/2013 Same as last inspection.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/7/2013 Same as last inspection.5/20/2014 Same as last inspection.12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee, 15.8 feet below the crown. Concrete headwall at both toes. Flap gate on the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 496+20). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 1 of 2 : UCIP_FA_2015_5353.jpg



View of waterward side looking upstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	11.12	Rating **	M	Issue No.	244 (cont)
LM End	11.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.432143 °	39.432143 °
				-121.645516 °	-121.645516 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46151 DS_ID:16938 EP_NO: N/A FS_HLM: 11.282 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/11/2015 Scour still present near the WS apron. burrow activity near headwall on landward side; scour near concrete apron and below apron; This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0336 no issues reported.5/10/2013 Same as last inspection.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/7/2013 Same as last inspection.5/20/2014 Same as last inspection.12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee, 15.8 feet below the crown. Concrete headwall at both toes. Flap gate on the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 496+20). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 2 of 2 : UCIP_FA_2015_5354.jpg



View of landward side looking upstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	11.23	Rating **	M	Issue No.	245
LM End	11.23	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.433674 °	39.433674 °
				-121.645591 °	-121.645591 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46152 DS_ID:16937 EP_NO: N/A FS_HLM: 11.39 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/11/2015 Abandoned crossing. SBFCA project recommends removal. Abandoned pipe-need to properly abandon structure; CMP riser cover missing on WS; WS pipe filled with concrete; LS crossing not visible. 5/10/2013 Same as last inspection. 5/13/2013 SBFCA project recommends removal. 11/7/2013 Same as last inspection. 5/20/2014 Same as last inspection. 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 24-inch reinforced concrete encased CM irrigation pipe through the levee, 19.5 feet below the crown. Concrete headwall at the landward toe. Slide gate in 36-inch CM riser on the waterward slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 502+20). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 1 of 3 : UCIP_FA_2015_5372.jpg



View of waterward side looking upstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	11.23	Rating **	M	Issue No.	245 (cont)
LM End	11.23	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.433674 °	39.433674 °
				-121.645591 °	-121.645591 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46152 DS_ID:16937 EP_NO: N/A FS_HLM: 11.39 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/11/2015 Abandoned crossing. SBFCA project recommends removal. Abandoned pipe-need to properly abandon structure; CMP riser cover missing on WS; WS pipe filled with concrete; LS crossing not visible. 5/10/2013 Same as last inspection. 5/13/2013 SBFCA project recommends removal. 11/7/2013 Same as last inspection. 5/20/2014 Same as last inspection. 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 24-inch reinforced concrete encased CM irrigation pipe through the levee, 19.5 feet below the crown. Concrete headwall at the landward toe. Slide gate in 36-inch CM riser on the waterward slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 502+20). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 2 of 3 : UCIP_FA_2015_5373.jpg



CMP riser located on waterward shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	11.23	Rating **	M	Issue No.	245 (cont)
LM End	11.23	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.433674 °	39.433674 °
				-121.645591 °	-121.645591 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46152 DS_ID:16937 EP_NO: N/A FS_HLM: 11.39 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/11/2015 Abandoned crossing. SBFCA project recommends removal. Abandoned pipe-need to properly abandon structure; CMP riser cover missing on WS; WS pipe filled with concrete; LS crossing not visible. 5/10/2013 Same as last inspection. 5/13/2013 SBFCA project recommends removal. 11/7/2013 Same as last inspection. 5/20/2014 Same as last inspection. 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 24-inch reinforced concrete encased CM irrigation pipe through the levee, 19.5 feet below the crown. Concrete headwall at the landward toe. Slide gate in 36-inch CM riser on the waterward slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 502+20). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 3 of 3 : UCIP_FA_2015_5374.jpg



View of landward side looking upstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	11.35	Rating **	M	Issue No.	246
LM End	11.35	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.435497 °	39.435497 °
				-121.645712 °	-121.645712 °
DWR ID					

Photo 1 of 3 : UCIP_FA_2015_5375.jpg



Action/Comments

Inspector Comments: FS_ID:46153
 DS_ID:16936
 EP_NO: N/A
 FS_HLM: 11.518
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 6/11/2015 LS inlet is still mostly buried with soil. SBFCA project recommends removal. Non-functional crossing landward inlet buried; waterward side-debris in CMP riser, riser missing lid; This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0344 for pipes filled > 50 % with soil. 5/10/2013 Same as last inspection. LS inlet excavated but more than 50% still covered by soil. 5/13/2013 SBFCA project recommends removal. 11/7/2013 Same as last inspection. 5/20/2014 Same as last inspection. 12/30/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee, 16.2 feet below the crown. Concrete headwall at both toes. Flap gate on the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 508+40). (USACE O&M Manual, 1957)
 FS Date: 07/07/2015

View of landward side looking upstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	11.35	Rating **	M	Issue No.	246 (cont)
LM End	11.35	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.435497 °	39.435497 °
				-121.645712 °	-121.645712 °
DWR ID					

Photo 2 of 3 : UCIP_FA_2015_5376.jpg



Action/Comments					
<p>Inspector Comments: FS_ID:46153 DS_ID:16936 EP_NO: N/A FS_HLM: 11.518 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/11/2015 LS inlet is still mostly buried with soil. SBFCA project recommends removal. Non-functional crossing landward inlet buried; waterward side-debris in CMP riser, riser missing lid; This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0344 for pipes filled > 50 % with soil. 5/10/2013 Same as last inspection. LS inlet excavated but more than 50% still covered by soil. 5/13/2013 SBFCA project recommends removal. 11/7/2013 Same as last inspection. 5/20/2014 Same as last inspection. 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee, 16.2 feet below the crown. Concrete headwall at both toes. Flap gate on the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 508+40). (USACE O&M Manual, 1957) FS Date: 07/07/2015</p>					

CMP riser located on waterward slope.

<p>* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown</p>	<p>** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain</p>	<p>+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement</p>
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	11.35	Rating **	M	Issue No.	246 (cont)
LM End	11.35	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.435497 °	39.435497 °
				-121.645712 °	-121.645712 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46153 DS_ID:16936 EP_NO: N/A FS_HLM: 11.518 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/11/2015 LS inlet is still mostly buried with soil. SBFCA project recommends removal. Non-functional crossing landward inlet buried; waterward side-debris in CMP riser, riser missing lid; This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0344 for pipes filled > 50 % with soil. 5/10/2013 Same as last inspection. LS inlet excavated but more than 50% still covered by soil. 5/13/2013 SBFCA project recommends removal. 11/7/2013 Same as last inspection. 5/20/2014 Same as last inspection. 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee, 16.2 feet below the crown. Concrete headwall at both toes. Flap gate on the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 508+40). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 3 of 3 : UCIP_FA_2015_5377.jpg



View of waterward side looking upstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	11.51	Rating **	M	Issue No.	247
LM End	11.51	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.437766 °	39.437766 °
				-121.646196 °	-121.646196 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46156 DS_ID:16934 EP_NO: N/A FS_HLM: 11.681 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/11/2015 same as last inspection.unable to determine the condition of the slide gate inside riser--need to determine condition. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0355 no issues reported.5/10/2013 Same as last inspection. Burrow activity above WS riser.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/7/2013 Same as last inspection. Metal cone structure on WS was removed and a flapgate was under it.5/20/2014 Same as last inspection.12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch reinforced concrete encased CM irrigation pipe through the levee, 18.8 feet below the crown. Slide gate in 36-inch CM riser on the waterward slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 517+40). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 1 of 3 : UCIP_FA_2015_4930.jpg



View of waterward side with unknown structure along pipe alignment and pump located over 100 feet from waterward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	11.51	Rating **	M	Issue No.	247 (cont)
LM End	11.51	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.437766 °	39.437766 °
				-121.646196 °	-121.646196 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46156 DS_ID:16934 EP_NO: N/A FS_HLM: 11.681 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/11/2015 same as last inspection.unable to determine the condition of the slide gate inside riser--need to determine condition. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0355 no issues reported.5/10/2013 Same as last inspection. Burrow activity above WS riser.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/7/2013 Same as last inspection. Metal cone structure on WS was removed and a flapgate was under it.5/20/2014 Same as last inspection.12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch reinforced concrete encased CM irrigation pipe through the levee, 18.8 feet below the crown. Slide gate in 36-inch CM riser on the waterward slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 517+40). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 2 of 3 : UCIP_FA_2015_5378.jpg



View of waterward side looking upstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/16/2015 11/16/2015	Bob Duffey

LM Start	11.51	Rating **	M	Issue No.	247 (cont)
LM End	11.51	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.437766 °	39.437766 °
DWR ID				-121.646196 °	-121.646196 °
Action/Comments					
Inspector Comments: FS_ID:46156 DS_ID:16934 EP_NO: N/A FS_HLM: 11.681 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/11/2015 same as last inspection.unable to determine the condition of the slide gate inside riser--need to determine condition. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0355 no issues reported.5/10/2013 Same as last inspection. Burrow activity above WS riser.5/13/2013 SBFCA project recommends relacing in accordance with title 23.11/7/2013 Same as last inspection. Metal cone structure on WS was removed and a flapgate was under it.5/20/2014 Same as last inspection.12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch reinforced concrete encased CM irrigation pipe through the levee, 18.8 feet below the crown. Slide gate in 36-inch CM riser on the waterward slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 517+40). (USACE O&M Manual, 1957) FS Date: 07/07/2015					

Photo 3 of 3 : UCIP_FA_2015_5379.jpg



View of landward side looking upstream at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
N/A : Not Applicable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement