Flood Control Project Maintenance
Levee Inspections

LMA District Cover Sheet

Spring 2018 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

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

** 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 indiction of risk.

Comments

Flood Control Project Maintenance
Levee Inspections

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles
Unit No. 01 Sacramento River	Left	19.85

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/19/2018 - 4/19/2018			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

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 - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**0.00**	Rating **	A	Issue No.	**10**
LM End	**0.00**	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			39.194083 °	39.194083 °
				-121.935512 °	-121.935512 °
DWR ID	DWR_ST0003_01_f _ 2016_10				

Comment Code

Inspector Comment

LMA has O+M manual.

No Photos

LM Start	**0.00**	Rating **	A	Issue No.	**15**
LM End	**0.00**	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			39.194083 °	39.194083 °
				-121.935512 °	-121.935512 °
DWR ID	DWR_ST0003_01_f _ 2016_15				

Comment Code

Inspector Comment

LMA has a stockpile of supplies.

No Photos

LM Start	**0.00**	Rating **	A	Issue No.	**16**
LM End	**0.00**	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			39.194083 °	39.194083 °
				-121.935512 °	-121.935512 °
DWR ID	DWR_ST0003_01_f _ 2016_16				

Comment Code

Inspector Comment

The LMA attends annual training and maintains emergency response plans.

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**0.00**	Rating **	M	Issue No.	**110**
LM End	**20.30**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.194100 °	39.383865 °
				-121.935568 °	-121.990355 °
DWR ID	DWR_ST0003_01_s _ 2018_110				

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Remove the native vegetation from the landside slope.

Photo 1 of 1 : SP_2018_ST0003_264_110_20180430_00196.jpg

View of the native vegetation along the landside slope.

LM Start	**0.00**	Rating **	M	Issue No.	**111**
LM End	**20.30**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.194100 °	39.383865 °
				-121.935568 °	-121.990355 °
DWR ID	DWR_ST0003_01_s _ 2018_111				

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Remove the native vegetation from the waterside slope.

Photo 1 of 1 : SP_2018_ST0003_264_111_20180430_00197.jpg

View of the native vegetation along the waterside slope.

LM Start	**0.11**	Rating **	M	Issue No.	**130**
LM End	**0.14**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.195163 °	39.195038 °
				-121.936815 °	-121.937435 °
DWR ID	DWR_ST0003_01_s _ 2017_130				

Comment Code

S1 : Repair slope instability.

Inspector Comment

Repair the erosion along the waterside slope.

Photo 1 of 1 : SP_2018_ST0003_264_130_20180305_00029.jpg

View of the erosion along the waterside slope.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

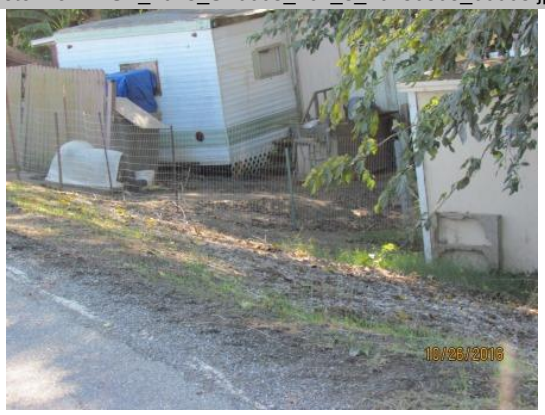
LM Start	**0.15**	Rating **	U	Issue No.	**3**
LM End	**0.20**	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.194978 °	39.195022 °
				-121.937502 °	-121.938563 °
DWR ID	DWR_ST0003_01_s _ 2012_3				

Comment Code

BU : Building

Inspector Comment

Photo 1 of 1 : SP_2018_ST0003_264_3_20180305_00003.jpg



View of the trailers and building on the waterside.

LM Start	**0.24**	Rating **	M	Issue No.	**82**
LM End	**0.24**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.195234 °	39.195234 °
				-121.939124 °	-121.939124 °
DWR ID	DWR_ST0003_01_f _ 2016_82				

Comment Code

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

No Photos

LM Start	**0.42**	Rating **	M	Issue No.	**81**
LM End	**0.42**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.196483 °	39.196483 °
				-121.942228 °	-121.942228 °
DWR ID	DWR_ST0003_01_f _ 2016_81				

Comment Code

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Photo 1 of 1 : SP_2018_ST0003_264_81_20180305_00022.jpg

View of the ruts along the waterside slope.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

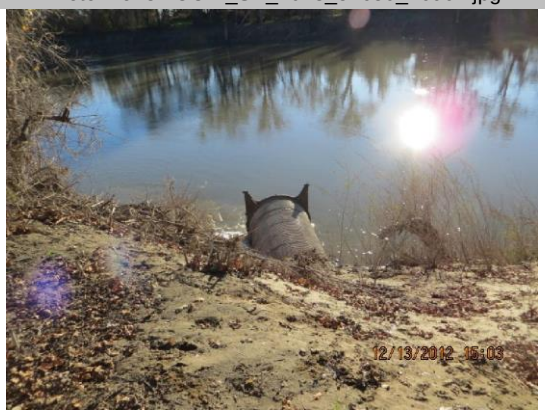
LM Start	**0.51**	Rating **	A/W	Issue No.	**137**
LM End	**0.51**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.197028 °	39.197028 °
				-121.943597 °	-121.943597 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51650
DS_ID:17307
EP_NO: 9534
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)
4/24/2017 Both sides of crossing were underwater during site visit. Will need to revisit after water levels drop. (DWR Sutter Yard- AFreitag)11/7/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/6/2016 Crossing appears to be in good condition.4/6/2015 Good Condition. No issues. Semi circle CMP half riser in inlet structure on LS. Inlet opeing has no trash rack, this may cause safety issue.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Drainage Structure] 78-inch drainage pipe of an unknown material through the levee, 3 feet below the crown. Flap gate on the waterside (WS). Corrugated metal pipe (CMP) half riser (in a semi-circle configuration) in the inlet structure on the landside (LS). (78-inch pipe [HLM 0.44] authorized under Automatic Board Order (ABO) issued as Permit No. 9534, 1974 - Caleta). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 0.44)].
FS Date: 4/26/2017 9:46:51 AM

Photo 1 of 3 : UCIP_SP_2018_51650_46962.jpg



Waterside view: overview towards CMP sewer pipe

LM Start	**0.51**	Rating **	A/W	Issue No.	**137 (cont)**
LM End	**0.51**	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_51650_46960.jpg

Waterside view: water flowing from CMP sewer pipe

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**0.51**	Rating **	A/W	Issue No.	**137 (cont)**
LM End	**0.51**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.197028 °	39.197028 °
				-121.943597 °	-121.943597 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51650
DS_ID:17307
EP_NO: 9534
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)
4/24/2017 Both sides of crossing were underwater during site visit. Will need to revisit after water levels drop. (DWR Sutter Yard- AFreitag)11/7/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/6/2016 Crossing appears to be in good condition.4/6/2015 Good Condition. No issues. Semi circle CMP half riser in inlet structure on LS. Inlet opeing has no trash rack, this may cause safety issue.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Drainage Structure] 78-inch drainage pipe of an unknown material through the levee, 3 feet below the crown. Flap gate on the waterside (WS). Corrugated metal pipe (CMP) half riser (in a semi-circle configuration) in the inlet structure on the landside (LS). (78-inch pipe [HLM 0.44] authorized under Automatic Board Order (ABO) issued as Permit No. 9534, 1974 - Caleta). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 0.44)].
FS Date: 4/26/2017 9:46:51 AM

Photo 3 of 3 : UCIP_SP_2018_51650_46961.jpg

Landside view: overview

LM Start	**0.54**	Rating **	M	Issue No.	**9**
LM End	**0.68**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.197267 °	39.198178 °
				-121.944232 °	-121.946412 °
DWR ID	DWR_ST0003_01_s _ 2017_9				

Comment Code

DE : Debris

Inspector Comment

Remove the debris from the waterside slope.

Photo 1 of 1 : SP_2018_ST0003_264_9_20180305_00008.jpg

View of the debris along the waterside slope.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**1.17**	Rating **	M	Issue No.	**80**
LM End	**1.17**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.194126 °	39.194126 °
				-121.953345 °	-121.953345 °
DWR ID	DWR_ST0003_01_f _ 2016_80				

Comment Code

S1 : Repair slope instability.

Inspector Comment

Photo 1 of 1 : SP_2018_ST0003_264_80_20180305_00021.jpg

View of the slope instability along the waterside slope.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**1.17**	Rating **	U	Issue No.	**138**
LM End	**1.17**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.194106 °	39.194106 °
				-121.953512 °	-121.953512 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51653
DS_ID:17319
EP_NO: 9527
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 LS slope dsamage is still present. No repairs have been made to this crossing yet. (DWR Sutter Yard-AFreitag)11/7/2016 No LS repairs have been made yet. (DWR Sutter Yard- AFreitag)6/6/2016 New flow meter installed on WS. Walkway to access the pump is overgrown with vegetation and not accessible. (DWR Sutter Yard - afreitag) 4/5/2016 Caved-in slope on landside (LS) not yet repaired. Leaky pipe marker gone. Per Bob Duffey (DWR FPIIB inspector), pipe will be replaced by owner next year. If not, will go to CVFPB enforcement. (DWR UCIP - kfazel)4/6/2015 Pipe leaks during times of High water. Slope damage still present. Needs a more detailed inspection to find the leak. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Pipe does not appear to be abandoned. On the WS it appears that a smaller pipe was sleeved into the 18in. Pipe and then the difference capped and welded. Pump was not running at time of inspection but LS ditch near outlet was wet. LS slope damage and leaky pipe marker are still present. (DWR Sutter Yard - afreitag)12/13/2012 Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee, 12.5 feet below the crown. Gate valve on the waterside (WS). Vertical pump on the WS bank. Flow meter on the WS. (Automatic Board Order (ABO) issued as Permit No. 9527, 1974 - Butte Creek Farms) [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 1.1)].
FS Date: 4/26/2017 9:49:08 AM

Photo 1 of 3 : UCIP_SP_2018_51653_46983.jpg

Waterside view: overview

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**1.17**	Rating **	U	Issue No.	**138 (cont)**
LM End	**1.17**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.194106 °	39.194106 °
				-121.953512 °	-121.953512 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51653
DS_ID:17319
EP_NO: 9527
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 LS slope dsamage is still present. No repairs have been made to this crossing yet. (DWR Sutter Yard-AFreitag)11/7/2016 No LS repairs have been made yet. (DWR Sutter Yard- AFreitag)6/6/2016 New flow meter installed on WS. Walkway to access the pump is overgrown with vegetation and not accessible. (DWR Sutter Yard - afreitag) 4/5/2016 Caved-in slope on landside (LS) not yet repaired. Leaky pipe marker gone. Per Bob Duffey (DWR FPIIB inspector), pipe will be replaced by owner next year. If not, will go to CVFPB enforcement. (DWR UCIP - kfazel)4/6/2015 Pipe leaks during times of High water. Slope damage still present. Needs a more detailed inspection to find the leak. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Pipe does not appear to be abandoned. On the WS it appears that a smaller pipe was sleeved into the 18in. Pipe and then the difference capped and welded. Pump was not running at time of inspection but LS ditch near outlet was wet. LS slope damage and leaky pipe marker are still present. (DWR Sutter Yard - afreitag)12/13/2012 Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee, 12.5 feet below the crown. Gate valve on the waterside (WS). Vertical pump on the WS bank. Flow meter on the WS. (Automatic Board Order (ABO) issued as Permit No. 9527, 1974 - Butte Creek Farms) [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 1.1)].
FS Date: 4/26/2017 9:49:08 AM

Photo 2 of 3 : UCIP_SP_2018_51653_46981.jpg

Waterside view: CMP riser with slide gate

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**1.17**	Rating **	U	Issue No.	**138 (cont)**
LM End	**1.17**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.194106 °	39.194106 °
				-121.953512 °	-121.953512 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51653
DS_ID:17319
EP_NO: 9527
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 LS slope dsamage is still present. No repairs have been made to this crossing yet. (DWR Sutter Yard-AFreitag)11/7/2016 No LS repairs have been made yet. (DWR Sutter Yard- AFreitag)6/6/2016 New flow meter installed on WS. Walkway to access the pump is overgrown with vegetation and not accessible. (DWR Sutter Yard - afreitag) 4/5/2016 Caved-in slope on landside (LS) not yet repaired. Leaky pipe marker gone. Per Bob Duffey (DWR FPIIB inspector), pipe will be replaced by owner next year. If not, will go to CVFPB enforcement. (DWR UCIP - kfazel)4/6/2015 Pipe leaks during times of High water. Slope damage still present. Needs a more detailed inspection to find the leak. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Pipe does not appear to be abandoned. On the WS it appears that a smaller pipe was sleeved into the 18in. Pipe and then the difference capped and welded. Pump was not running at time of inspection but LS ditch near outlet was wet. LS slope damage and leaky pipe marker are still present. (DWR Sutter Yard - afreitag)12/13/2012 Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee, 12.5 feet below the crown. Gate valve on the waterside (WS). Vertical pump on the WS bank. Flow meter on the WS. (Automatic Board Order (ABO) issued as Permit No. 9527, 1974 - Butte Creek Farms) [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 1.1)].
FS Date: 4/26/2017 9:49:08 AM

Photo 3 of 3 : UCIP_SP_2018_51653_46980.jpg

Waterside view: inside CMP riser

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**1.44**	Rating **	U	Issue No.	**139**
LM End	**1.44**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.192502 °	39.192502 °
				-121.958062 °	-121.958062 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51655
DS_ID:17320
EP_NO: 9543
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 WS was underwater during the site visit but I do not believe that any repairs have been made to this crossinyet. (DWR Sutter Yard- AFreitag)11/7/2016 No repairs have been made here yet. (DWR Sutter Yard- AFreitag)6/17/2016 River levels were down and the WS pipe end was exposed. WS end is completely rotten and damaged and flap gate has fallen off the end of the pipe (see pics). Pipe needs to be replaced or repaired. (DWR Sutter Yard - afreitag)4/5/2016 Erosion on WS slope still present. Pipe still fully submerged on WS and discharging into river during site visit. (DWR UCIP - kfazel)4/6/2015 Pipe leaks during high water. DWR employee said he suspects that the flap gate has rotted and fallen off WS end of pipe. Could not locate WS end of pipe to confirm. Water was flowing through this drain during field survey. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag) 12/13/2012 Water was flowing through this drain during field survey. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe (at 45 degrees) through the levee, 25.2 feet below the crown. Flap gate on the waterside (WS), not found in 2016. (30-inch pipe [HLM 1.38] authorized under Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, revision March 1960 (HLM 1.38)]
FS Date: 4/26/2017 9:57:29 AM

Photo 1 of 3 : UCIP_SP_2018_51655_46992.jpg

Waterside view: overview of river bank

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**1.44**	Rating **	U	Issue No.	**139 (cont)**
LM End	**1.44**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.192502 °	39.192502 °
				-121.958062 °	-121.958062 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51655
DS_ID:17320
EP_NO: 9543
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 WS was underwater during the site visit but I do not believe that any repairs have been made to this crossinyet. (DWR Sutter Yard- AFreitag)11/7/2016 No repairs have been made here yet. (DWR Sutter Yard- AFreitag)6/17/2016 River levels were down and the WS pipe end was exposed. WS end is completely rotten and damaged and flap gate has fallen off the end of the pipe (see pics). Pipe needs to be replaced or repaired. (DWR Sutter Yard - afreitag)4/5/2016 Erosion on WS slope still present. Pipe still fully submerged on WS and discharging into river during site visit. (DWR UCIP - kfazel)4/6/2015 Pipe leaks during high water. DWR employee said he suspects that the flap gate has rotted and fallen off WS end of pipe. Could not locate WS end of pipe to confirm. Water was flowing through this drain during field survey. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag) 12/13/2012 Water was flowing through this drain during field survey. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe (at 45 degrees) through the levee, 25.2 feet below the crown. Flap gate on the waterside (WS), not found in 2016. (30-inch pipe [HLM 1.38] authorized under Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, revision March 1960 (HLM 1.38)]
FS Date: 4/26/2017 9:57:29 AM

Photo 2 of 3 : UCIP_SP_2018_51655_46991.jpg

Waterside view: water flowing from outlet pipe (pipe fully submerge)

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**1.44**	Rating **	U	Issue No.	**139 (cont)**
LM End	**1.44**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.192502 °	39.192502 °
				-121.958062 °	-121.958062 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51655
DS_ID:17320
EP_NO: 9543
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 WS was underwater during the site visit but I do not believe that any repairs have been made to this crossinyet. (DWR Sutter Yard- AFreitag)11/7/2016 No repairs have been made here yet. (DWR Sutter Yard- AFreitag)6/17/2016 River levels were down and the WS pipe end was exposed. WS end is completely rotten and damaged and flap gate has fallen off the end of the pipe (see pics). Pipe needs to be replaced or repaired. (DWR Sutter Yard - afreitag)4/5/2016 Erosion on WS slope still present. Pipe still fully submerged on WS and discharging into river during site visit. (DWR UCIP - kfazel)4/6/2015 Pipe leaks during high water. DWR employee said he suspects that the flap gate has rotted and fallen off WS end of pipe. Could not locate WS end of pipe to confirm. Water was flowing through this drain during field survey. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag) 12/13/2012 Water was flowing through this drain during field survey. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe (at 45 degrees) through the levee, 25.2 feet below the crown. Flap gate on the waterside (WS), not found in 2016. (30-inch pipe [HLM 1.38] authorized under Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, revision March 1960 (HLM 1.38)]
FS Date: 4/26/2017 9:57:29 AM

Photo 3 of 3 : UCIP_SP_2018_51655_46990.jpg

Landside view: overview of levee slope

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**1.62**	Rating **	C	Issue No.	**83**
LM End	**1.62**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.190835 °	39.190835 °
				-121.960628 °	-121.960628 °
DWR ID	DWR_ST0003_01_f _ 2016_83				

Comment Code

A1 : Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

The rodent holes was repaired along the landside slope.

No Photos

LM Start	**1.91**	Rating **	M	Issue No.	**140**
LM End	**1.91**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.188180 °	39.188180 °
				-121.964688 °	-121.964688 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51656
DS_ID:17322
EP_NO: 9258
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 WS riser was still full of soil. Open 10" pipe on the WS bank was underwater during time of site visit. (DWR Sutter Yard- AFreitag)11/7/2016 WS riser still full of soil. No pump present and 10" pipe left opened on the WS. (DWR Sutter Yard- AFreitag)6/17/2016 Same as last inspection. 4/6/2015 CMP riser filled with silt/soil on WS. No other issues present.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 10-inch asphalt coated steel irrigation pipe through the levee, 3.7 feet below the crown. Pump installed on the waterside (WS). (Permit No. 9258, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 4/26/2017 10:15:33 AM

Photo 1 of 3 : UCIP_SP_2018_51656_46998.jpg

Waterside view: overview

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**1.91**	Rating **	M	Issue No.	**140 (cont)**
LM End	**1.91**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.188180 °	39.188180 °
				-121.964688 °	-121.964688 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51656
DS_ID:17322
EP_NO: 9258
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 WS riser was still full of soil. Open 10" pipe on the WS bank was underwater during time of site visit. (DWR Sutter Yard- AFreitag)11/7/2016 WS riser still full of soil. No pump present and 10" pipe left opened on the WS. (DWR Sutter Yard- AFreitag)6/17/2016 Same as last inspection. 4/6/2015 CMP riser filled with silt/soil on WS. No other issues present.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 10-inch asphalt coated steel irrigation pipe through the levee, 3.7 feet below the crown. Pump installed on the waterside (WS). (Permit No. 9258, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 4/26/2017 10:15:33 AM

Photo 2 of 3 : UCIP_SP_2018_51656_46997.jpg

Waterside view: overview of CMP riser

LM Start	**1.91**	Rating **	M	Issue No.	**140 (cont)**
LM End	**1.91**	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_51656_46996.jpg

Waterside view: CMP riser

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**1.91**	Rating **	U	Issue No.	**141**
LM End	**1.91**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.188164 °	39.188164 °
				-121.964721 °	-121.964721 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51657
DS_ID:17321
EP_NO: 9543
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Abandoned and needs to be done so properly. Vegetation was to thick on the LS slope to see and sloughing or slope damage. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/17/2016 Abandoned crossing. (DWR Sutter Yard - afreitag)4/5/2016 Appears abandoned and should be done so properly. LS levee slope has a slight but sudden drop (could be due to improper compaction). Dense vegetation on LS prevented visibility of sloughing or other damage to levee. Could not locate leaky pipe marker. Per Bryan Reniff of Sutter Yard, marker was previously installed due to a high water event, not leaky pipe. Appears repair work to levee performed but unclear of extent. Gate valve on WS is bent and damaged, appears abandoned. Crossing a good candidate for video inspection. (DWR UCIP - kfazel)4/6/2015 Sloughing LS slope and river bank. DWR marking for leaky pipe. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/13/2012 Sloughing LS slope and river bank. DWR marking for leaky pipe. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: *ABANDONED* 14-inch concrete encased steel irrigation pipe through the levee, 12.5 feet below the crown. Slant pump mounted on a pile structure on the waterside (WS) berm. Slide gate in a 48-inch riser on the WS berm with a walkway to the pump. Pipe discharges into a concrete distribution box at the landside (LS) toe. Flap gate on the LS end. Electrical conduit mounted to power poles on the LS and WS for service to the pump on the WS. Electrical conduits may partially penetrate both embankments. (Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 1.84)].
FS Date: 4/26/2017 10:38:26 AM

Photo 1 of 3 : UCIP_SP_2018_51657_47004.jpg

Waterside view: pipe @river bank

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**1.91**	Rating **	U	Issue No.	**141 (cont)**
LM End	**1.91**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.188164 °	39.188164 °
				-121.964721 °	-121.964721 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51657
DS_ID:17321
EP_NO: 9543
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Abandoned and needs to be done so properly. Vegetation was to thick on the LS slope to see and sloughing or slope damage. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/17/2016 Abandoned crossing. (DWR Sutter Yard - afreitag)4/5/2016 Appears abandoned and should be done so properly. LS levee slope has a slight but sudden drop (could be due to improper compaction). Dense vegetation on LS prevented visibility of sloughing or other damage to levee. Could not locate leaky pipe marker. Per Bryan Reniff of Sutter Yard, marker was previously installed due to a high water event, not leaky pipe. Appears repair work to levee performed but unclear of extent. Gate valve on WS is bent and damaged, appears abandoned. Crossing a good candidate for video inspection. (DWR UCIP - kfazel)4/6/2015 Sloughing LS slope and river bank. DWR marking for leaky pipe. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/13/2012 Sloughing LS slope and river bank. DWR marking for leaky pipe. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: *ABANDONED* 14-inch concrete encased steel irrigation pipe through the levee, 12.5 feet below the crown. Slant pump mounted on a pile structure on the waterside (WS) berm. Slide gate in a 48-inch riser on the WS berm with a walkway to the pump. Pipe discharges into a concrete distribution box at the landside (LS) toe. Flap gate on the LS end. Electrical conduit mounted to power poles on the LS and WS for service to the pump on the WS. Electrical conduits may partially penetrate both embankments. (Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 1.84)].
FS Date: 4/26/2017 10:38:26 AM

Photo 2 of 3 : UCIP_SP_2018_51657_47003.jpg

Waterside view: abandoned pump station.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**1.91**	Rating **	U	Issue No.	**141 (cont)**
LM End	**1.91**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.188164 °	39.188164 °
				-121.964721 °	-121.964721 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51657
DS_ID:17321
EP_NO: 9543
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Abandoned and needs to be done so properly. Vegetation was to thick on the LS slope to see and sloughing or slope damage. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/17/2016 Abandoned crossing. (DWR Sutter Yard - afreitag)4/5/2016 Appears abandoned and should be done so properly. LS levee slope has a slight but sudden drop (could be due to improper compaction). Dense vegetation on LS prevented visibility of sloughing or other damage to levee. Could not locate leaky pipe marker. Per Bryan Reniff of Sutter Yard, marker was previously installed due to a high water event, not leaky pipe. Appears repair work to levee performed but unclear of extent. Gate valve on WS is bent and damaged, appears abandoned. Crossing a good candidate for video inspection. (DWR UCIP - kfazel)4/6/2015 Sloughing LS slope and river bank. DWR marking for leaky pipe. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/13/2012 Sloughing LS slope and river bank. DWR marking for leaky pipe. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: *ABANDONED* 14-inch concrete encased steel irrigation pipe through the levee, 12.5 feet below the crown. Slant pump mounted on a pile structure on the waterside (WS) berm. Slide gate in a 48-inch riser on the WS berm with a walkway to the pump. Pipe discharges into a concrete distribution box at the landside (LS) toe. Flap gate on the LS end. Electrical conduit mounted to power poles on the LS and WS for service to the pump on the WS. Electrical conduits may partially penetrate both embankments. (Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 1.84)].
FS Date: 4/26/2017 10:38:26 AM

Photo 3 of 3 : UCIP_SP_2018_51657_47002.jpg

Waterside view: abandoned pump station close-up.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**2.08**	Rating **	M	Issue No.	**142**
LM End	**2.08**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.187717°	39.187717°
				-121.967712°	-121.967712°
DWR ID					

Comment Code

Inspector Comment

FS_ID:51658
DS_ID:17305
EP_NO: 9541
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Abandoned and needs to be done so properly. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/6/2016 Abandoned crossing. Should be properly abandoned.4/6/2015 Same as last inspection. CMP standpipe with gate valve. Abandoned pump house. Pipe discharges into open ditch at landward toe- not found.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch irrigation pipe of an unknown material through the levee, 13.5 feet below the crown. Pump in a metal house on the WS (waterside) berm. Slide gate in a corrugated metal pipe riser on the WS slope. Service pole and guy wire anchor on the WS slope. (Automatic Board Order (ABO) issued as Permit No. 9541, 1974 - Wilbur, McGowan, Zinke). [Additional Reference(s): DWR Levee Logs, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 2.01)].
FS Date: 4/26/2017 10:40:26 AM

Photo 1 of 3 : UCIP_SP_2018_51658_47013.jpg

Waterside view: overview

LM Start	**2.08**	Rating **	M	Issue No.	**142 (cont)**
LM End	**2.08**	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_51658_47011.jpg

Waterside view: overview of pipe

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**2.08**	Rating **	M	Issue No.	**142 (cont)**
LM End	**2.08**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.187717 °	39.187717 °
				-121.967712 °	-121.967712 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51658
DS_ID:17305
EP_NO: 9541
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Abandoned and needs to be done so properly. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/6/2016 Abandoned crossing. Should be properly abandoned.4/6/2015 Same as last inspection. CMP standpipe with gate valve. Abandoned pump house. Pipe discharges into open ditch at landward toe- not found.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch irrigation pipe of an unknown material through the levee, 13.5 feet below the crown. Pump in a metal house on the WS (waterside) berm. Slide gate in a corrugated metal pipe riser on the WS slope. Service pole and guy wire anchor on the WS slope. (Automatic Board Order (ABO) issued as Permit No. 9541, 1974 - Wilbur, McGowan, Zinke). [Additional Reference(s): DWR Levee Logs, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 2.01)].
FS Date: 4/26/2017 10:40:26 AM

Photo 3 of 3 : UCIP_SP_2018_51658_47012.jpg

Waterside view: abandoned pump house

LM Start	**2.45**	Rating **	M	Issue No.	**86**
LM End	**2.46**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.187911 °	39.187955 °
				-121.974591 °	-121.974693 °
DWR ID	DWR_ST0003_01_f _ 2016_86				

Comment Code

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**2.56**	Rating **	M	Issue No.	**143**
LM End	**2.56**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.188768 °	39.188768 °
				-121.976305 °	-121.976305 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51660
DS_ID:17309
EP_NO: 9541
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Still no sign of WS pipe end or flapgate. LS appears to be in good condition. (DWR Sutter Yard- AFreitag)

11/7/2016 LS culvert measured to be 30"wide X 30"tall. WS end is not vidible so could not be measured. (DWR Sutter Yard- AFreitag)6/6/2016 Cannot locate the WS headwall/flapgate. Appears to have been silted over.4/6/2015 Same as last inspection. Concrete surg box on WS. Flap gate in concrete "U" headwall at the waterward end- not found.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 30-inch reinforced concrete box drainage culvert through the levee, 14.3 feet below the crown. 30-inch corrugated metal pipe connects concrete culvert from slide gate out to flap gate on the waterside (WS) end. Slide gate in a concrete riser on the waterside (WS) slope. (30-inch pipe [HLM 2.49] authorized under Automatic Board Order (ABO) issued as Permit No. 9541, 1974 - Wilbur, McGowan, Zinke). [Additional Reference(s): DWR Levee Logs, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 2.49)].
FS Date: 4/26/2017 10:46:22 AM

Photo 1 of 3 : UCIP_SP_2018_51660_47027.jpg

Waterside view: overview- concrete surg tank

LM Start	**2.56**	Rating **	M	Issue No.	**143 (cont)**
LM End	**2.56**	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_51660_47026.jpg

Waterside view: overview- concrete surg tank

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**2.56**	Rating **	M	Issue No.	**143 (cont)**
LM End	**2.56**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.188768 °	39.188768 °
				-121.976305 °	-121.976305 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51660
DS_ID:17309
EP_NO: 9541
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Still no sign of WS pipe end or flapgate. LS appears to be in good condition. (DWR Sutter Yard- AFreitag)

11/7/2016 LS culvert measured to be 30"wide X 30"tall. WS end is not vidible so could not be measured. (DWR Sutter Yard- AFreitag)6/6/2016 Cannot locate the WS headwall/flapgate. Appears to have been silted over.4/6/2015 Same as last inspection. Concrete surg box on WS. Flap gate in concrete "U" headwall at the waterward end- not found.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 30-inch reinforced concrete box drainage culvert through the levee, 14.3 feet below the crown. 30-inch corrugated metal pipe connects concrete culvert from slide gate out to flap gate on the waterside (WS) end. Slide gate in a concrete riser on the waterside (WS) slope. (30-inch pipe [HLM 2.49] authorized under Automatic Board Order (ABO) issued as Permit No. 9541, 1974 - Wilbur, McGowan, Zinke). [Additional Reference(s): DWR Levee Logs, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 2.49)].
FS Date: 4/26/2017 10:46:22 AM

Photo 3 of 3 : UCIP_SP_2018_51660_47025.jpg

Waterside view: slide gate inside concrete surg tank

LM Start	**2.84**	Rating **	M	Issue No.	**104**
LM End	**2.84**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.191162 °	39.191162 °
				-121.980365 °	-121.980365 °
DWR ID	DWR_ST0003_01_s _ 2018_104				

Comment Code

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Repair the erosion along the water side slope caused by vehicle traffic.

Photo 1 of 1 : SP_2018_ST0003_264_104_20180312_00185.jpg

View of the erosion along the waterside slope caused by vehicle traffic.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**3.34**	Rating **	U	Issue No.	**144**
LM End	**3.34**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.197125 °	39.197125 °
				-121.985389 °	-121.985389 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51665
DS_ID:17311
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/6/2017 Pipe was found in January 2017 during a high water event when water uncovered the buried WS end which led to uncontrolled water flow through during the high water event. The WS pipe opening was temporarily blocked off by plywood and sandbags until the pipe can be properly plugged or abandoned. Pics updated. (DWR Sutter Yard- Afreitag)11/7/2016 Unable to locate. (DWR Sutter Yard- AFreitag)6/6/2016 Unable to locate.4/6/2015 Unable to locate.6/30/2014 Unable to locate.12/30/2013 Unable to locate.7/29/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Slide gate on the waterside (WS) end. Pipe silted over on both ends. (Automatic Board Order (ABO) issued as Permit No. 9539, 1974 - Locvich). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.25)].
FS Date: 4/26/2017 12:09:42 PM

Photo 1 of 3 : UCIP_SP_2018_51665_76919.jpg

LS view of water exiting the pipe.

LM Start	**3.34**	Rating **	U	Issue No.	**144 (cont)**
LM End	**3.34**	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_51665_76920.jpg

LS view from levee shoulder

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**3.34**	Rating **	U	Issue No.	**144 (cont)**
LM End	**3.34**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.197125 °	39.197125 °
				-121.985389 °	-121.985389 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51665
DS_ID:17311
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/6/2017 Pipe was found in January 2017 during a high water event when water uncovered the buried WS end which led to uncontrolled water flow through during the high water event. The WS pipe opening was temporarily blocked off by plywood and sandbags until the pipe can be properly plugged or abandoned. Pics updated. (DWR Sutter Yard- Afreitag)11/7/2016 Unable to locate. (DWR Sutter Yard- AFreitag)6/6/2016 Unable to locate.4/6/2015 Unable to locate.6/30/2014 Unable to locate.12/30/2013 Unable to locate.7/29/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Slide gate on the waterside (WS) end. Pipe silted over on both ends. (Automatic Board Order (ABO) issued as Permit No. 9539, 1974 - Locvich). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.25)].
FS Date: 4/26/2017 12:09:42 PM

Photo 3 of 3 : UCIP_SP_2018_51665_76921.jpg

WS view of the temporary plug on WS end.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**3.41**	Rating **	U	Issue No.	**145**
LM End	**3.41**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.198180 °	39.198180 °
				-121.985557 °	-121.985557 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51664
DS_ID:17312
EP_NO: 9539
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Pipe leaked during the Jan/Feb 2017 high water event. Gap between the top of the WS headwall and concrete plug plus the WS airvents going underwater are the cause of the uncontrolled water flows. (DWR Sutter Yard- AFreitag)11/7/2016 Nothing has changed with this crossing since the last inspection. The gap between the top of the WS headwall and concrete plug could be a problem with water flow during high water times. (DWR Sutter Yard- AFreitag)6/6/2016 One of the pipes appear to be leaking inside of the concrete culvert. From the WS headwall water can be heard flowing inside of the levee behind the concrete plug. The concrete plug also appears to leak as water current can be seen flowing around it. There is also a 1" gap at the top of the plug and the old WS headwall that will allow high water to flow through uncontrolled. (DWR Sutter Yard - afreitag)4/6/2015 6-inch and 18-inch pipes still present in crossing and WS end still plugged with concrete. It seems that the system was originally designed for drainage but later converted into an irrigation system. 6-inch GI pipe and 18-inch PVC pipes inserted into culvert from LS (not plugged). WS opening is plugged with concrete. Probably pump is located 350 ft from levee as seen from Google Earth Map. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)
FIELD_STRUCT_DESC: 30-inch by 36-inch reinforced concrete box drainage and irrigation culvert through the levee, invert 13.6 feet below the crown. Gates with 2-inch flashboards on the waterside (WS) end. 6-inch and 18-inch polyvinyl chloride (PVC) pipes through the culvert on the landside (LS). Culvert designed for drainage but now used for irrigation. (Automatic Board Order (ABO) issued as Permit No. 9539, 1974 - Locvich). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.33)].
FS Date: 4/26/2017 11:04:03 AM

Photo 1 of 3 : UCIP_SP_2018_51664_47049.jpg

Waterside view: plugged concrete structure and siphon breakers

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**3.41**	Rating **	U	Issue No.	**145 (cont)**
LM End	**3.41**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.198180 °	39.198180 °
				-121.985557 °	-121.985557 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51664
DS_ID:17312
EP_NO: 9539
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Pipe leaked during the Jan/Feb 2017 high water event. Gap between the top of the WS headwall and concrete plug plus the WS airvents going underwater are the cause of the uncontrolled water flows. (DWR Sutter Yard- AFreitag)11/7/2016 Nothing has changed with this crossing since the last inspection. The gap between the top of the WS headwall and concrete plug could be a problem with water flow during high water times. (DWR Sutter Yard- AFreitag)6/6/2016 One of the pipes appear to be leaking inside of the concrete culvert. From the WS headwall water can be heard flowing inside of the levee behind the concrete plug. The concrete plug also appears to leak as water current can be seen flowing around it. There is also a 1" gap at the top of the plug and the old WS headwall that will allow high water to flow through uncontrolled. (DWR Sutter Yard - afreitag)4/6/2015 6-inch and 18-inch pipes still present in crossing and WS end still plugged with concrete. It seems that the system was originally designed for drainage but later converted into an irrigation system. 6-inch GI pipe and 18-inch PVC pipes inserted into culvert from LS (not plugged). WS opening is plugged with concrete. Probably pump is located 350 ft from levee as seen from Google Earth Map. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)
FIELD_STRUCT_DESC: 30-inch by 36-inch reinforced concrete box drainage and irrigation culvert through the levee, invert 13.6 feet below the crown. Gates with 2-inch flashboards on the waterside (WS) end. 6-inch and 18-inch polyvinyl chloride (PVC) pipes through the culvert on the landside (LS). Culvert designed for drainage but now used for irrigation. (Automatic Board Order (ABO) issued as Permit No. 9539, 1974 - Locvich). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.33)].
FS Date: 4/26/2017 11:04:03 AM

Photo 2 of 3 : UCIP_SP_2018_51664_47046.jpg

Landside view: overview- concrete culvert and pipes

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**3.41**	Rating **	U	Issue No.	**145 (cont)**
LM End	**3.41**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.198180 °	39.198180 °
				-121.985557 °	-121.985557 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51664
DS_ID:17312
EP_NO: 9539
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Pipe leaked during the Jan/Feb 2017 high water event. Gap between the top of the WS headwall and concrete plug plus the WS airvents going underwater are the cause of the uncontrolled water flows. (DWR Sutter Yard- AFreitag)11/7/2016 Nothing has changed with this crossing since the last inspection. The gap between the top of the WS headwall and concrete plug could be a problem with water flow during high water times. (DWR Sutter Yard- AFreitag)6/6/2016 One of the pipes appear to be leaking inside of the concrete culvert. From the WS headwall water can be heard flowing inside of the levee behind the concrete plug. The concrete plug also appears to leak as water current can be seen flowing around it. There is also a 1" gap at the top of the plug and the old WS headwall that will allow high water to flow through uncontrolled. (DWR Sutter Yard - afreitag)4/6/2015 6-inch and 18-inch pipes still present in crossing and WS end still plugged with concrete. It seems that the system was originally designed for drainage but later converted into an irrigation system. 6-inch GI pipe and 18-inch PVC pipes inserted into culvert from LS (not plugged). WS opening is plugged with concrete. Probably pump is located 350 ft from levee as seen from Google Earth Map. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)
FIELD_STRUCT_DESC: 30-inch by 36-inch reinforced concrete box drainage and irrigation culvert through the levee, invert 13.6 feet below the crown. Gates with 2-inch flashboards on the waterside (WS) end. 6-inch and 18-inch polyvinyl chloride (PVC) pipes through the culvert on the landside (LS). Culvert designed for drainage but now used for irrigation. (Automatic Board Order (ABO) issued as Permit No. 9539, 1974 - Locvich). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.33)].
FS Date: 4/26/2017 11:04:03 AM

Photo 3 of 3 : UCIP_SP_2018_51664_47047.jpg

Landside view: overview of concrete culvert and pipes

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**3.51**	Rating **	M	Issue No.	**87**
LM End	**3.51**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.199578 °	39.199578 °
				-121.985373 °	-121.985373 °
DWR ID	DWR_ST0003_01_f _ 2016_87				

Comment Code

EQ : Equipment

Inspector Comment

No Photos

LM Start	**3.54**	Rating **	M	Issue No.	**11**
LM End	**3.81**	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.200007 °	39.203634 °
				-121.985257 °	-121.982977 °
DWR ID	DWR_ST0003_01_f _ 2016_11				

Comment Code

BU : Building

Inspector Comment

Photo 1 of 1 : SP_2018_ST0003_264_11_20180305_00009.jpg

View of a trailer next to the waterside toe.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**3.68**	Rating **	M	Issue No.	**146**
LM End	**3.68**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.201831 °	39.201831 °
				-121.984006 °	-121.984006 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51666
DS_ID:17313
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Slide gate structure found on WS about 10ft from levee toe. Vegetation was too thick to see if there were any more appurtances associated with this crossing visible on the WS. Nothing was visible on the LS. House located above pipe alignment at LS levee toe. Crossing appears abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)11/7/2016 Unable to locate. (DWR Sutter Yard- AFreitag)6/6/2016 Unable to locate.4/6/2015 Unable to locate.6/30/2014 Unable to locate.12/30/2013 Unable to locate7/29/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: *ABANDONED* 18-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Slide gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.6)].
FS Date: 4/26/2017 12:11:41 PM

Photo 1 of 2 : UCIP_SP_2018_51666_77004.jpg

Slide gate structure found on WS

LM Start	**3.68**	Rating **	M	Issue No.	**146 (cont)**
LM End	**3.68**	Issue Type +	Ma	Location *	

Photo 2 of 2 : UCIP_SP_2018_51666_77005.jpg

View of WS from levee shoulder

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**3.85**	Rating **	M	Issue No.	**147**
LM End	**3.85**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.204141 °	39.204141 °
				-121.982698 °	-121.982698 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51671
DS_ID:17314
EP_NO: 9501-1
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/7/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/17/2016 DO NOT BELIEVE THIS IS AN ABANDONED CROSSING- there is a newer looking pump present inside the WS pump house with an active PG&E power meter. Also the dirt below the siphon breaker inside of the riser on the LS shoulder was wet indicating that the breaker has had running water through it recently. Also the ground under the LS toe airvent was wet indicating that it too has recently had water flowing through it.

4/4/2016 Concrete box on LS still silted in. Cracking and slope failure previously cited appears to have been repaired as we could not locate. Shutoff valves appear in good condition. If crossing is abandoned, should be done so properly.4/6/2015 Same as last inspection.Concrete pit on WS berm.Concrete distribution box on LS silted and erosion around the box.Slope failure/ transverse cracks on LS levee slope.Two depressions on WS berm.6/30/2014 Crossing appears to be being made active again. WS bank has been cleared of all vegetation and debris to allow pump to slide down to water level. New shutoff valve installed on WS shoulder inside of cmp stand pipe. New air-vac installed inside cmp standpipe on LS shoulder and air vent installed on LS toe. Could not Locate pipe end on LS. Need to check for permit number for work done.12/30/2013 Repairs to LS and WS slopes have been completed. Not sure if this is an active or abandoned crossing. LS distribution box is still slited in.7/29/2013 Repairs to LS slope and pipe are in progress. Nothing has been done yet to the WS depressions.
FIELD_STRUCT_DESC: 16-inch asphalt coated steel irrigation pipe through the levee, 2 feet below the crown. Pump house over concrete pit on the waterside (WS) berm. A 16-inch gear-operated butterfly valve inside riser with cover off the WS shoulder. Siphon breaker inside riser with cover off the landside (LS) shoulder. Discharges into a concrete box at the LS toe. (Permit No. 9501-1, 2014 - Howard). This pipe was a replacement for an existing (failed) 16-inch pipe under DSID 25455, referenced in the Levee Log and replaced under Permit No. 9501-1. [Additional Reference(s): DWR Levee Log, 2002]. The Levee Log references this pipe's appurtenances along with the original 16-inch under DSID 25455.
FS Date: 4/26/2017 12:29:36 PM

Photo 1 of 3 : UCIP_SP_2018_51671_71480.jpg

WS river bank

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**3.85**	Rating **	M	Issue No.	**147 (cont)**
LM End	**3.85**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.204141 °	39.204141 °
				-121.982698 °	-121.982698 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51671
DS_ID:17314
EP_NO: 9501-1
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/7/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/17/2016 DO NOT BELIEVE THIS IS AN ABANDONED CROSSING- there is a newer looking pump present inside the WS pump house with an active PG&E power meter. Also the dirt below the siphon breaker inside of the riser on the LS shoulder was wet indicating that the breaker has had running water through it recently. Also the ground under the LS toe airvent was wet indicating that it too has recently had water flowing through it.

4/4/2016 Concrete box on LS still silted in. Cracking and slope failure previously cited appears to have been repaired as we could not locate. Shutoff valves appear in good condition. If crossing is abandoned, should be done so properly.4/6/2015 Same as last inspection.Concrete pit on WS berm.Concrete distribution box on LS silted and erosion around the box.Slope failure/ transverse cracks on LS levee slope.Two depressions on WS berm.6/30/2014 Crossing appears to be being made active again. WS bank has been cleared of all vegetation and debris to allow pump to slide down to water level. New shutoff valve installed on WS shoulder inside of cmp stand pipe. New air-vac installed inside cmp standpipe on LS shoulder and air vent installed on LS toe. Could not Locate pipe end on LS. Need to check for permit number for work done.12/30/2013 Repairs to LS and WS slopes have been completed. Not sure if this is an active or abandoned crossing. LS distribution box is still slited in.7/29/2013 Repairs to LS slope and pipe are in progress. Nothing has been done yet to the WS depressions.
FIELD_STRUCT_DESC: 16-inch asphalt coated steel irrigation pipe through the levee, 2 feet below the crown. Pump house over concrete pit on the waterside (WS) berm. A 16-inch gear-operated butterfly valve inside riser with cover off the WS shoulder. Siphon breaker inside riser with cover off the landside (LS) shoulder. Discharges into a concrete box at the LS toe. (Permit No. 9501-1, 2014 - Howard). This pipe was a replacement for an existing (failed) 16-inch pipe under DSID 25455, referenced in the Levee Log and replaced under Permit No. 9501-1. [Additional Reference(s): DWR Levee Log, 2002]. The Levee Log references this pipe's appurtenances along with the original 16-inch under DSID 25455.
FS Date: 4/26/2017 12:29:36 PM

Photo 2 of 3 : UCIP_SP_2018_51671_71479.jpg

WS standpipe with shut off valve inside

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**3.85**	Rating **	M	Issue No.	**147 (cont)**
LM End	**3.85**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.204141 °	39.204141 °
				-121.982698 °	-121.982698 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51671
DS_ID:17314
EP_NO: 9501-1
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/7/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/17/2016 DO NOT BELIEVE THIS IS AN ABANDONED CROSSING- there is a newer looking pump present inside the WS pump house with an active PG&E power meter. Also the dirt below the siphon breaker inside of the riser on the LS shoulder was wet indicating that the breaker has had running water through it recently. Also the ground under the LS toe airvent was wet indicating that it too has recently had water flowing through it.

4/4/2016 Concrete box on LS still silted in. Cracking and slope failure previously cited appears to have been repaired as we could not locate. Shutoff valves appear in good condition. If crossing is abandoned, should be done so properly.4/6/2015 Same as last inspection.Concrete pit on WS berm.Concrete distribution box on LS silted and erosion around the box.Slope failure/ transverse cracks on LS levee slope.Two depressions on WS berm.6/30/2014 Crossing appears to be being made active again. WS bank has been cleared of all vegetation and debris to allow pump to slide down to water level. New shutoff valve installed on WS shoulder inside of cmp stand pipe. New air-vac installed inside cmp standpipe on LS shoulder and air vent installed on LS toe. Could not Locate pipe end on LS. Need to check for permit number for work done.12/30/2013 Repairs to LS and WS slopes have been completed. Not sure if this is an active or abandoned crossing. LS distribution box is still slited in.7/29/2013 Repairs to LS slope and pipe are in progress. Nothing has been done yet to the WS depressions.
FIELD_STRUCT_DESC: 16-inch asphalt coated steel irrigation pipe through the levee, 2 feet below the crown. Pump house over concrete pit on the waterside (WS) berm. A 16-inch gear-operated butterfly valve inside riser with cover off the WS shoulder. Siphon breaker inside riser with cover off the landside (LS) shoulder. Discharges into a concrete box at the LS toe. (Permit No. 9501-1, 2014 - Howard). This pipe was a replacement for an existing (failed) 16-inch pipe under DSID 25455, referenced in the Levee Log and replaced under Permit No. 9501-1. [Additional Reference(s): DWR Levee Log, 2002]. The Levee Log references this pipe's appurtenances along with the original 16-inch under DSID 25455.
FS Date: 4/26/2017 12:29:36 PM

Photo 3 of 3 : UCIP_SP_2018_51671_71478.jpg

WS shut off valve

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**4.44**	Rating **	U	Issue No.	**148**
LM End	**4.44**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210230 °	39.210230 °
				-121.988223 °	-121.988223 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51674
DS_ID:17297
EP_NO: 9501-A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 WS was mostly underwater during site visit. Not sure if the 10" pipe was still opened or capped on the WS end but no water appeared to be free flowing through the levee. No sign of orange pump. (DWR Sutter Yard- AFreitag)11/7/2016 Orange pump was not present at this inspection. 10" pipe penetration left opened on WS end. (DWR Sutter Yard- AFreitag)6/17/2016 Orange pump motor was lowered down the WS berm to water level and was pumping water through the pipe to the LS outlet. What is pictured in (photo#17 UCIP_Photos_No.75150) as "pipe debris" is the pipe section that is used to connect the orange pump to the open 10" pipe that penetrates the levee. In the same photo the "possible penetration" is the flexible suction line for the pump. (DWR Sutter Yard - afreitag)4/4/2016 Flow meter installed on LS indicates this pipe is used seasonally and not abandoned. Pipe open on WS (see photo). No cover on old siphon breaker. Slight sloughing of LS slope. (DWR UCIP - kfazel)4/6/2015 Pump disconnected and pulled up to WS toe. Not Sure if leaky valve has ever been fixed. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Not an abandoned crossing. Pump is connected to WS pipe end at water level and is pumping water to LS and then goes underground to an irrigation ditch about 100yds. upstream. Pump and pipes are disconnected and pulled up to WS toe for high water season. Leaky valve on LS shoulder does not appear to have been fixed. (DWR Sutter Yard - afreitag)12/12/2012 Motor and pump on berm. Appears an abandoned crossing. Leaky valve on LS slope. Pipe removed and laying on berm. No electric connection to the pump. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 10-inch asphalt coated steel irrigation pipe through the levee, 5 feet below the crown. Siphon breaker off the landside (LS) shoulder. Motor and pump on the waterside (WS) at water level. The pipe is open through the WS slope with an air vent on the apex of the pipe. Another piece of pipe, found laying on the WS slope in 2016, is used to connect the 10-inch open pipe to the pump at the water level. A flexible suction line for the pump found in the water above the pump and motor. Abandoned 16-inch crossing (DSID 17326) associated with this permit also at this location. Pipe through the LS slope is steel with polyvinyl chloride (PVC) pipe installed at its flange; PVC pipe partially penetrates the LS slope. Flow meter installed to PVC pipe section on LS. (Permit No. 9501-A, 1978 - Mayfair Packing, Inc.). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 4/26/2017 12:58:27 PM

Photo 1 of 3 : UCIP_SP_2018_51674_47068.jpg

Crown view: transverse cracks on levee road.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**4.44**	Rating **	U	Issue No.	**148 (cont)**
LM End	**4.44**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210230 °	39.210230 °
				-121.988223 °	-121.988223 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51674
DS_ID:17297
EP_NO: 9501-A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 WS was mostly underwater during site visit. Not sure if the 10" pipe was still opened or capped on the WS end but no water appeared to be free flowing through the levee. No sign of orange pump. (DWR Sutter Yard- AFreitag)11/7/2016 Orange pump was not present at this inspection. 10" pipe penetration left opened on WS end. (DWR Sutter Yard- AFreitag)6/17/2016 Orange pump motor was lowered down the WS berm to water level and was pumping water through the pipe to the LS outlet. What is pictured in (photo#17 UCIP_Photos_No.75150) as "pipe debris" is the pipe section that is used to connect the orange pump to the open 10" pipe that penetrates the levee. In the same photo the "possible penetration" is the flexible suction line for the pump. (DWR Sutter Yard - afreitag)4/4/2016 Flow meter installed on LS indicates this pipe is used seasonally and not abandoned. Pipe open on WS (see photo). No cover on old siphon breaker. Slight sloughing of LS slope. (DWR UCIP - kfazel)4/6/2015 Pump disconnected and pulled up to WS toe. Not Sure if leaky valve has ever been fixed. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Not an abandoned crossing. Pump is connected to WS pipe end at water level and is pumping water to LS and then goes underground to an irrigation ditch about 100yds. upstream. Pump and pipes are disconnected and pulled up to WS toe for high water season. Leaky valve on LS shoulder does not appear to have been fixed. (DWR Sutter Yard - afreitag)12/12/2012 Motor and pump on berm. Appears an abandoned crossing. Leaky valve on LS slope. Pipe removed and laying on berm. No electric connection to the pump. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 10-inch asphalt coated steel irrigation pipe through the levee, 5 feet below the crown. Siphon breaker off the landside (LS) shoulder. Motor and pump on the waterside (WS) at water level. The pipe is open through the WS slope with an air vent on the apex of the pipe. Another piece of pipe, found laying on the WS slope in 2016, is used to connect the 10-inch open pipe to the pump at the water level. A flexible suction line for the pump found in the water above the pump and motor. Abandoned 16-inch crossing (DSID 17326) associated with this permit also at this location. Pipe through the LS slope is steel with polyvinyl chloride (PVC) pipe installed at its flange; PVC pipe partially penetrates the LS slope. Flow meter installed to PVC pipe section on LS. (Permit No. 9501-A, 1978 - Mayfair Packing, Inc.). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 4/26/2017 12:58:27 PM

Photo 2 of 3 : UCIP_SP_2018_51674_47067.jpg

Waterside view: overview of pump and abandoned pipe

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**4.44**	Rating **	U	Issue No.	**148 (cont)**
LM End	**4.44**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210230 °	39.210230 °
				-121.988223 °	-121.988223 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51674
DS_ID:17297
EP_NO: 9501-A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 WS was mostly underwater during site visit. Not sure if the 10" pipe was still opened or capped on the WS end but no water appeared to be free flowing through the levee. No sign of orange pump. (DWR Sutter Yard- AFreitag)11/7/2016 Orange pump was not present at this inspection. 10" pipe penetration left opened on WS end. (DWR Sutter Yard- AFreitag)6/17/2016 Orange pump motor was lowered down the WS berm to water level and was pumping water through the pipe to the LS outlet. What is pictured in (photo#17 UCIP_Photos_No.75150) as "pipe debris" is the pipe section that is used to connect the orange pump to the open 10" pipe that penetrates the levee. In the same photo the "possible penetration" is the flexible suction line for the pump. (DWR Sutter Yard - afreitag)4/4/2016 Flow meter installed on LS indicates this pipe is used seasonally and not abandoned. Pipe open on WS (see photo). No cover on old siphon breaker. Slight sloughing of LS slope. (DWR UCIP - kfazel)4/6/2015 Pump disconnected and pulled up to WS toe. Not Sure if leaky valve has ever been fixed. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Not an abandoned crossing. Pump is connected to WS pipe end at water level and is pumping water to LS and then goes underground to an irrigation ditch about 100yds. upstream. Pump and pipes are disconnected and pulled up to WS toe for high water season. Leaky valve on LS shoulder does not appear to have been fixed. (DWR Sutter Yard - afreitag)12/12/2012 Motor and pump on berm. Appears an abandoned crossing. Leaky valve on LS slope. Pipe removed and laying on berm. No electric connection to the pump. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 10-inch asphalt coated steel irrigation pipe through the levee, 5 feet below the crown. Siphon breaker off the landside (LS) shoulder. Motor and pump on the waterside (WS) at water level. The pipe is open through the WS slope with an air vent on the apex of the pipe. Another piece of pipe, found laying on the WS slope in 2016, is used to connect the 10-inch open pipe to the pump at the water level. A flexible suction line for the pump found in the water above the pump and motor. Abandoned 16-inch crossing (DSID 17326) associated with this permit also at this location. Pipe through the LS slope is steel with polyvinyl chloride (PVC) pipe installed at its flange; PVC pipe partially penetrates the LS slope. Flow meter installed to PVC pipe section on LS. (Permit No. 9501-A, 1978 - Mayfair Packing, Inc.). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 4/26/2017 12:58:27 PM

Photo 3 of 3 : UCIP_SP_2018_51674_47066.jpg

WS view: pump motor on the berm (found at water level in 2016)

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**4.44**	Rating **	U	Issue No.	**149**
LM End	**4.44**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210230 °	39.210230 °
				-121.988223 °	-121.988223 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51675
DS_ID:17326
EP_NO: 9501
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Abandoned and needs to be done properly. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)6/17/2016 Abanoned pipe. photo comments updated. (DWR Sutter Yard - afreitag)4/4/2016 Open on WS. Needs proper abandonment. Contact owner to determine status of crossing. (DWR UCIP - kfazel)4/6/2015 Same as last inspection. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/12/2012 Need to be properly abandoned. Transverse cracks on levee road.Also found a concrete outlet on LS. It is not clear whether this passes through the levee. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: *ABANDONED* 16-inch steel irrigation pipe, 13.9 feet below the crown. Gate valve and pump in pump house on the waterside (WS) berm. 2-3 inch electrical conduit penetrates levee alongside pipe. Flap gate and concrete distribution box on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9501, 1974 - Mayfair Farms, abandoned under Permit No. 9501-A, 1978 - MayFair Packing, Inc.). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.37)]
FS Date: 4/26/2017 12:58:45 PM

Photo 1 of 3 : UCIP_SP_2018_51675_47080.jpg

Crown view: cracks along pipe alignment (transverse crack)

LM Start	**4.44**	Rating **	U	Issue No.	**149 (cont)**
LM End	**4.44**	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_51675_47079.jpg

Waterside view: overview

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**4.44**	Rating **	U	Issue No.	**149 (cont)**
LM End	**4.44**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210230 °	39.210230 °
				-121.988223 °	-121.988223 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51675
DS_ID:17326
EP_NO: 9501
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Abandoned and needs to be done properly. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)6/17/2016 Abanoned pipe. photo comments updated. (DWR Sutter Yard - afreitag)4/4/2016 Open on WS. Needs proper abandonment. Contact owner to determine status of crossing. (DWR UCIP - kfazel)4/6/2015 Same as last inspection. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/12/2012 Need to be properly abandoned. Transverse cracks on levee road.Also found a concrete outlet on LS. It is not clear whether this passes through the levee. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: *ABANDONED* 16-inch steel irrigation pipe, 13.9 feet below the crown. Gate valve and pump in pump house on the waterside (WS) berm. 2-3 inch electrical conduit penetrates levee alongside pipe. Flap gate and concrete distribution box on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9501, 1974 - Mayfair Farms, abandoned under Permit No. 9501-A, 1978 - MayFair Packing, Inc.). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.37)]
FS Date: 4/26/2017 12:58:45 PM

Photo 3 of 3 : UCIP_SP_2018_51675_47078.jpg

Waterside view: overview of pipe

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**4.44**	Rating **	M	Issue No.	**150**
LM End	**4.44**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210280 °	39.210280 °
				-121.988284 °	-121.988284 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51676
DS_ID:17484
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Abandoned- needs to be done so properly. WS underwater during site visit. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned but needs to be done so properly. (DWR Sutter Yard- AFreitag)9/29/2016 Crossing has been downgraded from Urgent to Non-Urgent crossing is abandoned and WS surge box is full of debris. Need to contact owner and have owner coordinate with CVFPB to comply with Title 23. (DWR UCIP - omagana)6/17/2016 Abandoned crossing. Photo comments updated. (DWR Sutter Yard - afreitag)4/4/2016 Same as last inspection. (DWR UCIP - kfazel)4/6/2015 Crossing appears to be an old irrigation structure and not a drain pipe. It appears abandoned as WS surge box is full of debris. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/12/2012 Debris and detorated concrete. Gate valve in surge tank. (DWR UCIP - pamatya) FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel irrigation pipe through the levee, invert 26 feet below the crown. Slide gate on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 4.37)].
FS Date: 4/26/2017 12:59:53 PM

Photo 1 of 3 : UCIP_SP_2018_51676_47087.jpg

Crown view: transverse crack on levee road

LM Start	**4.44**	Rating **	M	Issue No.	**150 (cont)**
LM End	**4.44**	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_51676_47086.jpg

Waterside view: overview of concrete surge box

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

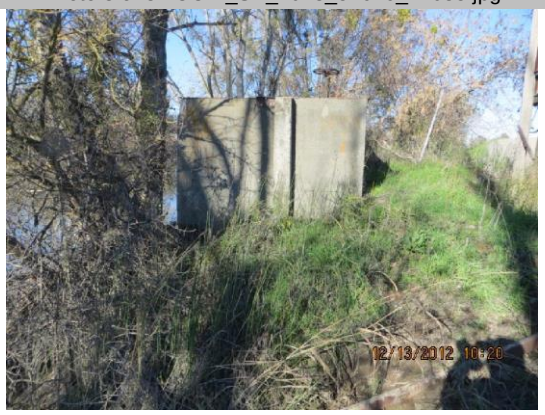
LM Start	**4.44**	Rating **	M	Issue No.	**150 (cont)**
LM End	**4.44**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210280 °	39.210280 °
				-121.988284 °	-121.988284 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51676
DS_ID:17484
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Abandoned- needs to be done so properly. WS underwater during site visit. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned but needs to be done so properly. (DWR Sutter Yard- AFreitag)9/29/2016 Crossing has been downgraded from Urgent to Non-Urgent crossing is abandoned and WS surge box is full of debris. Need to contact owner and have owner coordinate with CVFPB to comply with Title 23. (DWR UCIP - omagana)6/17/2016 Abandoned crossing. Photo comments updated. (DWR Sutter Yard - afreitag)4/4/2016 Same as last inspection. (DWR UCIP - kfazel)4/6/2015 Crossing appears to be an old irrigation structure and not a drain pipe. It appears abandoned as WS surge box is full of debris. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/12/2012 Debris and detorated concrete. Gate valve in surge tank. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel irrigation pipe through the levee, invert 26 feet below the crown. Slide gate on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 4.37)].
FS Date: 4/26/2017 12:59:53 PM

Photo 3 of 3 : UCIP_SP_2018_51676_47085.jpg



Waterside view: concrete surge box

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**4.64**	Rating **	M	Issue No.	**151**
LM End	**4.64**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.212627 °	39.212627 °
				-121.990413 °	-121.990413 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51677
DS_ID:17318
EP_NO: 9501
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 LS shoulder erosion repaired. Not sure if any changes or repairs were done to the pipe itself. (DWR Sutter Yard-AFreitag)11/7/2016 LS erosion still a problem at the LS shoulder. (DWR Sutter Yard- AFreitag)6/6/2016 LS erosion still present and appears to be getting worse. It is only a few inches away from affecting the paved road way. (DWR Sutter Yard - afreitag)4/4/2016 Same as last inspection. Erosion problem is urgently in need of repair. (DWR UCIP - kfazel)4/6/2015 Erosion problem still present near the LS shoulder. If it gets any worse then it may start to affect the road way. Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Erosion near LS shoulder may start affecting the roadway if it gets any worse.12/12/2012 Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 24-inch asphalt coated steel irrigation pipe, 4 feet below the crown. Slant pump on a steel platform on the waterside (WS) berm. Siphon breaker on the apex of the pipe and off the levee crown on the landside (LS). 2 shut-off (butterfly) valves off the LS toe. Power pole with electrical conduit and panel on the LS toe. Pipe appears to run diagonally through the levee and discharges into a ditch off the LS toe. Gate structure on the outlet at the ditch. (Automatic Board Order (ABO) issued as Permit No. 9501, 1974 - Mayfair Farms, Inc.). Slant pump installed under Permit No. 10935, 1975 - Pires. [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 4/26/2017 1:01:23 PM

Photo 1 of 3 : UCIP_SP_2018_51677_47092.jpg

Waterside view: overview

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**4.64**	Rating **	M	Issue No.	**151 (cont)**
LM End	**4.64**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.212627 °	39.212627 °
				-121.990413 °	-121.990413 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51677
DS_ID:17318
EP_NO: 9501
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 LS shoulder erosion repaired. Not sure if any changes or repairs were done to the pipe itself. (DWR Sutter Yard-AFreitag)11/7/2016 LS erosion still a problem at the LS shoulder. (DWR Sutter Yard- AFreitag)6/6/2016 LS erosion still present and appears to be getting worse. It is only a few inches away from affecting the paved road way. (DWR Sutter Yard - afreitag)4/4/2016 Same as last inspection. Erosion problem is urgently in need of repair. (DWR UCIP - kfazel)4/6/2015 Erosion problem still present near the LS shoulder. If it gets any worse then it may start to affect the road way. Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Erosion near LS shoulder may start affecting the roadway if it gets any worse.12/12/2012 Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 24-inch asphalt coated steel irrigation pipe, 4 feet below the crown. Slant pump on a steel platform on the waterside (WS) berm. Siphon breaker on the apex of the pipe and off the levee crown on the landside (LS). 2 shut-off (butterfly) valves off the LS toe. Power pole with electrical conduit and panel on the LS toe. Pipe appears to run diagonally through the levee and discharges into a ditch off the LS toe. Gate structure on the outlet at the ditch. (Automatic Board Order (ABO) issued as Permit No. 9501, 1974 - Mayfair Farms, Inc.). Slant pump installed under Permit No. 10935, 1975 - Pires. [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 4/26/2017 1:01:23 PM

Photo 2 of 3 : UCIP_SP_2018_51677_47091.jpg

Waterside view: overview of pump station

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**4.64**	Rating **	M	Issue No.	**151 (cont)**
LM End	**4.64**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.212627 °	39.212627 °
				-121.990413 °	-121.990413 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51677
DS_ID:17318
EP_NO: 9501
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 LS shoulder erosion repaired. Not sure if any changes or repairs were done to the pipe itself. (DWR Sutter Yard-AFreitag)11/7/2016 LS erosion still a problem at the LS shoulder. (DWR Sutter Yard- AFreitag)6/6/2016 LS erosion still present and appears to be getting worse. It is only a few inches away from affecting the paved road way. (DWR Sutter Yard - afreitag)4/4/2016 Same as last inspection. Erosion problem is urgently in need of repair. (DWR UCIP - kfazel)4/6/2015 Erosion problem still present near the LS shoulder. If it gets any worse then it may start to affect the road way. Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Erosion near LS shoulder may start affecting the roadway if it gets any worse.12/12/2012 Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. (DWR UCIP - pamatya) FIELD_STRUCT_DESC: 24-inch asphalt coated steel irrigation pipe, 4 feet below the crown. Slant pump on a steel platform on the waterside (WS) berm. Siphon breaker on the apex of the pipe and off the levee crown on the landside (LS). 2 shut-off (butterfly) valves off the LS toe. Power pole with electrical conduit and panel on the LS toe. Pipe appears to run diagonally through the levee and discharges into a ditch off the LS toe. Gate structure on the outlet at the ditch. (Automatic Board Order (ABO) issued as Permit No. 9501, 1974 - Mayfair Farms, Inc.). Slant pump installed under Permit No. 10935, 1975 - Pires. [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 4/26/2017 1:01:23 PM

Photo 3 of 3 : UCIP_SP_2018_51677_47096.jpg

Waterside view: inclined pipes

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**4.72**	Rating **	M	Issue No.	**12**
LM End	**4.72**	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.213265 °	39.213265 °
				-121.991672 °	-121.991672 °
DWR ID	DWR_ST0003_01_s _ 2012_12				

Comment Code

BU : Building

Inspector Comment

Photo 1 of 1 : SP_2018_ST0003_264_12_20180305_00010.jpg

View of the barn on the large crown of the levee.

LM Start	**4.75**	Rating **	M	Issue No.	**105**
LM End	**4.76**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.213509 °	39.213665 °
				-121.991993 °	-121.992220 °
DWR ID	DWR_ST0003_01_f _ 2016_105				

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**5.03**	Rating **	M	Issue No.	**152**
LM End	**5.03**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214949 °	39.214949 °
				-121.996980 °	-121.996980 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51679
DS_ID:17287
EP_NO: 9520
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/24/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/7/2016 appears abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)6/6/2016 Appears to be an abandoned crossing.4/6/2015 Same as last inspection. Still appears abandoned. A concrete standpipe and a CMP riser on WS. It seems abandoned and if so should be done so properly.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 17 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. Pump on the WS bank and concrete standpipe on the WS berm, found in 2015. 18-inch concrete pipe from standpipe at WS toe. Pipe discharges into a field on the landside (LS), not found in 2015. (24-inch pipe [HLM 4.99] authorized under Automatic Board Order (ABO) issued as Permit No. 9520, 1974 - Arnold). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.99)].
FS Date: 4/26/2017 1:07:37 PM

Photo 1 of 3 : UCIP_SP_2018_51679_47107.jpg

Waterside view: overview

LM Start	**5.03**	Rating **	M	Issue No.	**152 (cont)**
LM End	**5.03**	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_51679_47106.jpg

Waterside view: CMP riser with slide gate

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**5.03**	Rating **	M	Issue No.	**152 (cont)**
LM End	**5.03**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214949 °	39.214949 °
				-121.996980 °	-121.996980 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51679
DS_ID:17287
EP_NO: 9520
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/24/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/7/2016 appears abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)6/6/2016 Appears to be an abandoned crossing.4/6/2015 Same as last inspection. Still appears abandoned. A concrete standpipe and a CMP riser on WS. It seems abandoned and if so should be done so properly.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 17 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. Pump on the WS bank and concrete standpipe on the WS berm, found in 2015. 18-inch concrete pipe from standpipe at WS toe. Pipe discharges into a field on the landside (LS), not found in 2015. (24-inch pipe [HLM 4.99] authorized under Automatic Board Order (ABO) issued as Permit No. 9520, 1974 - Arnold). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.99)].
FS Date: 4/26/2017 1:07:37 PM

Photo 3 of 3 : UCIP_SP_2018_51679_47105.jpg

Waterside view: inside CMP riser

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**5.04**	Rating **	M	Issue No.	**153**
LM End	**5.04**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214954 °	39.214954 °
				-121.997014 °	-121.997014 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51680
DS_ID:17288
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/24/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)11/7/2016 Appears abandoned, Should be done so properly. (DWR Sutter Yard- AFreitag)6/6/2016 Appears to be an abandoned crossing.4/4/2016 If abandoned, should be done so properly.4/6/2015 Same as last inspection. Only WS riser amd slide gate found.Only a CMP riser with slide gate found on WS.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 13.8 feet below the crown, not found in 2015. Slide gate in a CMP riser on the waterside (WS) slope, found in 2015. Flap gate removed at the landside (LS) end. (Automatic Board Order (ABO) issued as Permit No. 9520, 1974 - Arnold). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.99)].
FS Date: 4/26/2017 1:19:25 PM

Photo 1 of 3 : UCIP_SP_2018_51680_47112.jpg

Waterside view: CMP riser with slide gate (right)

LM Start	**5.04**	Rating **	M	Issue No.	**153 (cont)**
LM End	**5.04**	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_51680_47111.jpg

Waterside view: CMP riser with slide gate

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**5.04**	Rating **	M	Issue No.	**153 (cont)**
LM End	**5.04**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214954 °	39.214954 °
				-121.997014 °	-121.997014 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51680
DS_ID:17288
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/24/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)11/7/2016 Appears abandoned, Should be done so properly. (DWR Sutter Yard- AFreitag)6/6/2016 Appears to be an abandoned crossing.4/4/2016 If abandoned, should be done so properly.4/6/2015 Same as last inspection. Only WS riser amd slide gate found.Only a CMP riser with slide gate found on WS.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 13.8 feet below the crown, not found in 2015. Slide gate in a CMP riser on the waterside (WS) slope, found in 2015. Flap gate removed at the landside (LS) end. (Automatic Board Order (ABO) issued as Permit No. 9520, 1974 - Arnold). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.99)].
FS Date: 4/26/2017 1:19:25 PM

Photo 3 of 3 : UCIP_SP_2018_51680_47110.jpg

Landside view: overview- county road and road drainpipe

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**5.04**	Rating **	M	Issue No.	**154**
LM End	**5.04**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214970 °	39.214970 °
				-121.997177 °	-121.997177 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51681
DS_ID:17289
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Appears abandoned- needs to be done so properly. Sloughing still present near WS surge box. (DWR Sutter Yard- AFreitag)11/7/2016 Appears abandoned but needs to be done so properly. (DWR Sutter Yard- AFreitag)6/6/2016 Sink holes appear to have been repaired but there is still some minor sloughing around the WS surge box. Surge box was full of water at time of inspection and I could not see the pipe inside to see if it still looked corroded and rusty.4/4/2016 Could not find sink holes as in 07/2013 photo. Appears repaired, but sloughing still present around surge box. Need confirmation that pipe was abandoned properly.4/6/2015 Repairs are in progress to this crossing.Surge box on WS and distribution box across the county road on LS. Abandoned pump station and electrical panel on WS. A concrete pump pit on WS.6/30/2014 Sink hole near WS surge box is still present. Portable pumps were lowered down the WS bank and were pumping water directly into WS standpipe on to by pass the surge box.12/30/2013 Sink Hole above pipe on WS still present. Pipe end inside of WS surge box shows heavy signs of rust and corrosion. Recommend having an internal camera inspection completed on pipe.7/29/2013 Portable tow-pump lowered down WS berm to water level and is pupming water into concrete surge box on WS and the filling the irrigation ditch on LS. Sink hole with standing water that is present above the outlet pipe for the WS surge box. This may indicate a leaking pipe or cracked concrete.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal irrigation pipe through the levee, 18.4 feet below the crown, not found in 2016. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) shoulder, found in 2016. Pump and concrete pump pit on the WS bank, found in 2013. Concrete surge box on the WS berm, found in 2016. Pipe discharges into an irrigation ditch on the landside (LS). (Levee Log references Permit No. 2904, 1958 - Butte Creek Farms, Inc. This permit authorizes an existing pump house and makes no mention of this pipe and its appurtenances). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 5.00)]
FS Date: 4/26/2017 1:20:24 PM

Photo 1 of 3 : UCIP_SP_2018_51681_47115.jpg

Waterside view: overview

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**5.04**	Rating **	M	Issue No.	**154 (cont)**
LM End	**5.04**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214970 °	39.214970 °
				-121.997177 °	-121.997177 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51681
DS_ID:17289
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Appears abandoned- needs to be done so properly. Sloughing still present near WS surge box. (DWR Sutter Yard- AFreitag)11/7/2016 Appears abandoned but needs to be done so properly. (DWR Sutter Yard- AFreitag)6/6/2016 Sink holes appear to have been repaired but there is still some minor sloughing around the WS surge box. Surge box was full of water at time of inspection and I could not see the pipe inside to see if it still looked corroded and rusty.4/4/2016 Could not find sink holes as in 07/2013 photo. Appears repaired, but sloughing still present around surge box. Need confirmation that pipe was abandoned properly.4/6/2015 Repairs are in progress to this crossing.Surge box on WS and distribution box across the county road on LS. Abandoned pump station and electrical panel on WS. A concrete pump pit on WS.6/30/2014 Sink hole near WS surge box is still present. Portable pumps were lowered down the WS bank and were pumping water directly into WS standpipe on to by pass the surge box.12/30/2013 Sink Hole above pipe on WS still present. Pipe end inside of WS surge box shows heavy signs of rust and corrosion. Recommend having an internal camera inspection completed on pipe.7/29/2013 Portable tow-pump lowered down WS berm to water level and is pupming water into concrete surge box on WS and the filling the irrigation ditch on LS. Sink hole with standing water that is present above the outlet pipe for the WS surge box. This may indicate a leaking pipe or cracked concrete.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal irrigation pipe through the levee, 18.4 feet below the crown, not found in 2016. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) shoulder, found in 2016. Pump and concrete pump pit on the WS bank, found in 2013. Concrete surge box on the WS berm, found in 2016. Pipe discharges into an irrigation ditch on the landside (LS). (Levee Log references Permit No. 2904, 1958 - Butte Creek Farms, Inc. This permit authorizes an existing pump house and makes no mention of this pipe and its appurtenances). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 5.00)]
FS Date: 4/26/2017 1:20:24 PM

Photo 2 of 3 : UCIP_SP_2018_51681_47113.jpg

Waterside view: CMP riser and surge box

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**5.04**	Rating **	M	Issue No.	**154 (cont)**
LM End	**5.04**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214970 °	39.214970 °
				-121.997177 °	-121.997177 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51681
DS_ID:17289
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Appears abandoned- needs to be done so properly. Sloughing still present near WS surge box. (DWR Sutter Yard- AFreitag)11/7/2016 Appears abandoned but needs to be done so properly. (DWR Sutter Yard- AFreitag)6/6/2016 Sink holes appear to have been repaired but there is still some minor sloughing around the WS surge box. Surge box was full of water at time of inspection and I could not see the pipe inside to see if it still looked corroded and rusty.4/4/2016 Could not find sink holes as in 07/2013 photo. Appears repaired, but sloughing still present around surge box. Need confirmation that pipe was abandoned properly.4/6/2015 Repairs are in progress to this crossing.Surge box on WS and distribution box across the county road on LS. Abandoned pump station and electrical panel on WS. A concrete pump pit on WS.6/30/2014 Sink hole near WS surge box is still present. Portable pumps were lowered down the WS bank and were pumping water directly into WS standpipe on to by pass the surge box.12/30/2013 Sink Hole above pipe on WS still present. Pipe end inside of WS surge box shows heavy signs of rust and corrosion. Recommend having an internal camera inspection completed on pipe.7/29/2013 Portable tow-pump lowered down WS berm to water level and is pupming water into concrete surge box on WS and the filling the irrigation ditch on LS. Sink hole with standing water that is present above the outlet pipe for the WS surge box. This may indicate a leaking pipe or cracked concrete.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal irrigation pipe through the levee, 18.4 feet below the crown, not found in 2016. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) shoulder, found in 2016. Pump and concrete pump pit on the WS bank, found in 2013. Concrete surge box on the WS berm, found in 2016. Pipe discharges into an irrigation ditch on the landside (LS). (Levee Log references Permit No. 2904, 1958 - Butte Creek Farms, Inc. This permit authorizes an existing pump house and makes no mention of this pipe and its appurtenances). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 5.00)]
FS Date: 4/26/2017 1:20:24 PM

Photo 3 of 3 : UCIP_SP_2018_51681_47114.jpg

Waterside view: closer look at surge box

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**5.15**	Rating **	M	Issue No.	**155**
LM End	**5.15**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.215409 °	39.215409 °
				-121.999061 °	-121.999061 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51683
DS_ID:17291
EP_NO: 4091
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)6/6/2016 Appears to be an abandoned crossing. WS was to over grown with vegetation to access the area where the WS pump structure was previously found.4/6/2015 Same as last inspection. Crossing appears abandoned. Appears abandoned and if so should be done so properly. No Siphon breaker found on LS.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 8-inch asphalt coated steel irrigation pipe through the levee, 4 feet below the crown. Pump on the waterside (WS) bank. Gate valve in a concrete pipe riser on the WS shoulder. (Permit No. 4091, 1962 - Halsey, Yerxa). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 4/26/2017 1:30:30 PM

Photo 1 of 3 : UCIP_SP_2018_51683_47127.jpg

Waterside view: concrete pipe riser with gate valve

LM Start	**5.15**	Rating **	M	Issue No.	**155 (cont)**
LM End	**5.15**	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_51683_47126.jpg

Waterside view: burried gate valve in concrete pipe riser

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

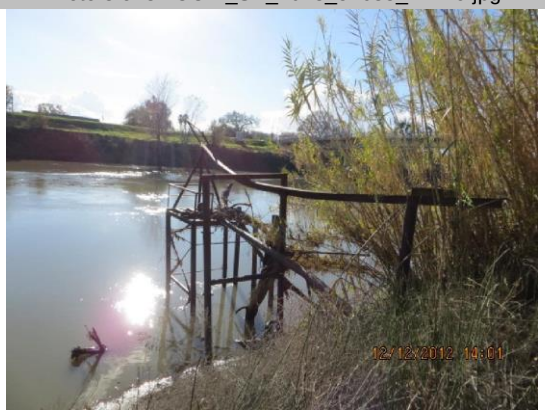
LM Start	**5.15**	Rating **	M	Issue No.	**155 (cont)**
LM End	**5.15**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.215409 °	39.215409 °
				-121.999061 °	-121.999061 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51683
DS_ID:17291
EP_NO: 4091
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/24/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/7/2016 Abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)6/6/2016 Appears to be an abandoned crossing. WS was to over grown with vegetation to access the area where the WS pump structure was previously found.4/6/2015 Same as last inspection. Crossing appears abandoned. Appears abandoned and if so should be done so properly. No Siphon breaker found on LS.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 8-inch asphalt coated steel irrigation pipe through the levee, 4 feet below the crown. Pump on the waterside (WS) bank. Gate valve in a concrete pipe riser on the WS shoulder. (Permit No. 4091, 1962 - Halsey, Yerxa). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 4/26/2017 1:30:30 PM

Photo 3 of 3 : UCIP_SP_2018_51683_47129.jpg



Waterside view: abandoned pump station.

LM Start	**5.32**	Rating **	M	Issue No.	**102**
LM End	**5.32**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.216516 °	39.216516 °
				-122.001852 °	-122.001852 °
DWR ID	DWR_ST0003_01_f _ 2016_102				

Comment Code

EQ : Equipment

Inspector Comment

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**5.42**	Rating **	M	Issue No.	**100**
LM End	**5.42**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.217047°	39.217047°
				-122.003632°	-122.003632°
DWR ID	DWR_ST0003_01_f _ 2016_100				

Comment Code

EQ : Equipment

Inspector Comment

Photo 1 of 1 : SP_2018_ST0003_264_100_20180305_00027.jpg

View of the ag equipment along the landside toe.

LM Start	**6.38**	Rating **	M	Issue No.	**118**
LM End	**6.38**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.223555°	39.223555°
				-121.999035°	-121.999035°
DWR ID	DWR_ST0003_01_s _ 2017_118				

Comment Code

PR : Prunings

Inspector Comment

Remove the prunings from the landside toe.

Photo 1 of 1 : SP_2018_ST0003_264_118_20180305_00028.jpg

View of the prunings at the landside toe.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**6.40**	Rating **	M	Issue No.	**156**
LM End	**6.40**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.223796 °	39.223796 °
				-121.999014 °	-121.999014 °
DWR ID					

Comment Code

Inspector Comment

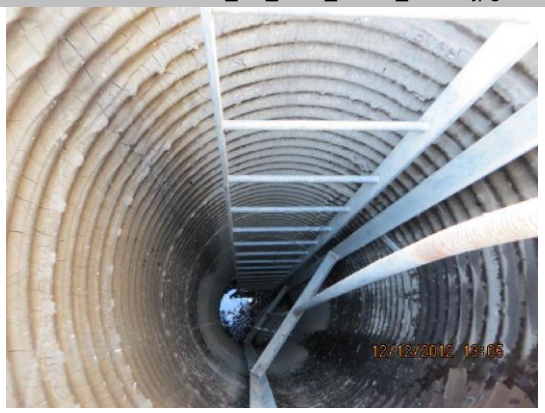
FS_ID:51688
DS_ID:17306
EP_NO: 9530
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/16/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- Afreitag)6/1/2016 Appears to be an abandoned crossing. WS end is about 90% buried with soil and the LS end is still unknown.4/1/2015 WS pipe end 3/4 blocked by soil. LS end is still unknown.Pipe outlet on WS partially burried, it needs cleaning.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection
FIELD_STRUCT_DESC: *ABANDONED* 30-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. (30-inch pipe [HLM 6.37] authorized under Automatic Board Order (ABO) issued as Permit No. 9530, 1974 - Halsey). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 4/26/2017 1:45:14 PM

Photo 1 of 3 : UCIP_SP_2018_51688_47158.jpg

Waterside view: CMP riser with slide gate

LM Start	**6.40**	Rating **	M	Issue No.	**156 (cont)**
LM End	**6.40**	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_51688_47156.jpg



Waterside view: inside CMP riser

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**6.40**	Rating **	M	Issue No.	**156 (cont)**
LM End	**6.40**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.223796 °	39.223796 °
				-121.999014 °	-121.999014 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51688
DS_ID:17306
EP_NO: 9530
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/16/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- Afreitag)6/1/2016 Appears to be an abandoned crossing. WS end is about 90% buried with soil and the LS end is still unknown.4/1/2015 WS pipe end 3/4 blocked by soil. LS end is still unknown.Pipe outlet on WS partially burried, it needs cleaning.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection
FIELD_STRUCT_DESC: *ABANDONED* 30-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. (30-inch pipe [HLM 6.37] authorized under Automatic Board Order (ABO) issued as Permit No. 9530, 1974 - Halsey). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 4/26/2017 1:45:14 PM

Photo 3 of 3 : UCIP_SP_2018_51688_47157.jpg

Waterside view: partially burried steel pipe

LM Start	**6.47**	Rating **	M	Issue No.	**99**
LM End	**6.47**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.224719 °	39.224719 °
				-121.998623 °	-121.998623 °
DWR ID	DWR_ST0003_01_f _ 2016_99				

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Photo 1 of 1 : SP_2018_ST0003_264_99_20180305_00026.jpg

View of the overgrown vegetation along the landside slope.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**6.47**	Rating **	M	Issue No.	**106**
LM End	**6.47**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.224812 °	39.224812 °
				-121.998615 °	-121.998615 °
DWR ID	DWR_ST0003_01_s _ 2018_106				

Comment Code

TR : Tree or limb

Inspector Comment

Remove the down tree from the landside slope.

Photo 1 of 1 : SP_2018_ST0003_264_106_20180402_00187.jpg

View of the downed tree along the landside slope.

LM Start	**6.51**	Rating **	M	Issue No.	**98**
LM End	**6.51**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.225307 °	39.225307 °
				-121.998755 °	-121.998755 °
DWR ID	DWR_ST0003_01_f _ 2016_98				

Comment Code

EQ : Equipment

Inspector Comment

Photo 1 of 1 : SP_2018_ST0003_264_98_20180305_00025.jpg

View of the ag equipment along the landside toe.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**6.64**	Rating **	M	Issue No.	**157**
LM End	**6.64**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.226991 °	39.226991 °
				-121.999907 °	-121.999907 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51689
DS_ID:17296
EP_NO: 9530
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/1/2016 Abandoned- only WS riser and screwgate found.4/1/2015 Only cmp riser with screwgate found on WS. Screwgate stem is bent.Appears abandoned and should be verified as having been done so properly. Only CMP riser with slide gate found on WS6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. (24-inch pipe [HLM 6.61] authorized under Automatic Board Order (ABO) issued as Permit No. 9530, 1974 - Halsey). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 6.61)].
FS Date: 4/26/2017 1:50:06 PM

Photo 1 of 2 : UCIP_SP_2018_51689_47181.jpg

Waterside view: CMP riser with slide gate

LM Start	**6.64**	Rating **	M	Issue No.	**157 (cont)**
LM End	**6.64**	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2018_51689_47180.jpg

Waterside view: inside CMP riser

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**6.75**	Rating **	C	Issue No.	**96**
LM End	**6.75**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.228291 °	39.228291 °
				-121.998579 °	-121.998579 °
DWR ID	DWR_ST0003_01_f _ 2016_96				

Comment Code

S1 : Repair slope instability.

Inspector Comment

The landside slope was repaired.

No Photos

LM Start	**6.75**	Rating **	M	Issue No.	**97**
LM End	**6.75**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.228291 °	39.228291 °
				-121.998579 °	-121.998579 °
DWR ID	DWR_ST0003_01_f _ 2016_97				

Comment Code

S1 : Repair slope instability.

Inspector Comment

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**6.76**	Rating **	M	Issue No.	**136**
LM End	**6.79**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			39.228311 °	39.228730 °
				-121.998555 °	-121.998109 °
DWR ID	DWR_ST0003_01_f _ 2017_136				

No Photos

Comment Code

Inspector Comment

Levee Evaluation Comments
Description:
Site ID No:11
Site Designation:DWR_ST0003_01_s_2012_30
Repair Type: Erosion
Rating:Area of Concern
Field Date:6/7/2017
Notes: Rodent activity seems to be the source of the problem. Local runoff/rainfall eroded the rodent holes to an advanced state of erosion that could continue with future exposure to wet conditions. Simple fix for the issue would be to grout the holes. Problem levee is a set-back levee.

LM Start	**6.92**	Rating **	M	Issue No.	**158**
LM End	**6.92**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.229670 °	39.229670 °
				-121.996313 °	-121.996313 °
DWR ID					

No Photos

Comment Code

Inspector Comment

FS_ID:51691
DS_ID:17298
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 4/19/2017 Unable to locate. (DWR Sutter Yard-AFreitag)10/31/2016 Unable to locate. (DWR Sutter Yard-Afreitag)6/1/2016 Unable to locate.4/1/2015 Unable to locate.Need to determine status of crossing.6/30/2014 Unable to locate.12/18/2013 Unable to locate.7/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 2.5-inch gas pipeline of an unknown material through the levee, 1 foot below the crown. Gas storage tanks on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 4/26/2017 2:27:22 PM

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**7.58**	Rating **	M	Issue No.	**159**
LM End	**7.58**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.238153 °	39.238153 °
				-121.995024 °	-121.995024 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51694
DS_ID:17300
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned (DWR Sutter Yard- Afreitag)6/1/2016 Abandoned4/1/2015 Only cmp riser and slide gate found on WS.Abandoned riser with slide gate on WS. Abandoned concrete surge box on WS. Verify pipe has been abandoned properly. 6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 14.5 feet below the crown, not found in 2015. Slide gate in a concrete surge box on the waterside (WS) berm, found in 2015. Slide gate in a corrugated metal pipe (CMP) riser, found in 2015. Pump on the WS slope, not found in 2015. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 7.61)].
FS Date: 4/26/2017 2:37:43 PM

Photo 1 of 3 : UCIP_SP_2018_51694_47189.jpg

Waterside view: overview

LM Start	**7.58**	Rating **	M	Issue No.	**159 (cont)**
LM End	**7.58**	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_51694_47188.jpg

Waterside view: CMP riser with slide gate

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**7.58**	Rating **	M	Issue No.	**159 (cont)**
LM End	**7.58**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.238153 °	39.238153 °
				-121.995024 °	-121.995024 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51694
DS_ID:17300
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned (DWR Sutter Yard- Afreitag)6/1/2016 Abandoned4/1/2015 Only cmp riser and slide gate found on WS.Abandoned riser with slide gate on WS. Abandoned concrete surge box on WS. Verify pipe has been abandoned properly. 6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 14.5 feet below the crown, not found in 2015. Slide gate in a concrete surge box on the waterside (WS) berm, found in 2015. Slide gate in a corrugated metal pipe (CMP) riser, found in 2015. Pump on the WS slope, not found in 2015. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 7.61)].
FS Date: 4/26/2017 2:37:43 PM

Photo 3 of 3 : UCIP_SP_2018_51694_47192.jpg

Waterside view: abandoned concrete surge box

LM Start	**7.59**	Rating **	C	Issue No.	**129**
LM End	**7.59**	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.238227 °	39.238227 °
				-121.995020 °	-121.995020 °
DWR ID	DWR_ST0003_01_s _ 2017_129				

Comment Code

TR : Tree or limb

Inspector Comment

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**7.72**	Rating **	M	Issue No.	**160**
LM End	**7.72**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.239458 °	39.239458 °
				-121.993398 °	-121.993398 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51695
DS_ID:17301
EP_NO: 9532
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/19/2017 Abandoned- erosion/depression present around the WS box (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned and erosion still present near WS box.(DWR Sutter Yard- Afreitag)6/1/2016 Appears to be an abandoned crossing.4/1/2015 Silted concrete box on WS. Depression/erosion around concrete box on WS.Silted concrete box on WS. Depression/erosion around concrete box on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch by 48-inch reinforced concrete box drainage culvert through the levee, 11.6 feet below the crown. Slide gate in a concrete box on the waterside (WS) slope. (3-foot by 4-foot culvert [HLM 7.73] authorized under Automatic Board Order (ABO) issued as Permit No. 9532, 1974 - Martin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 7.73)].
FS Date: 4/26/2017 2:38:29 PM

Photo 1 of 3 : UCIP_SP_2018_51695_77008.jpg

Depression around WS concrete box

LM Start	**7.72**	Rating **	M	Issue No.	**160 (cont)**
LM End	**7.72**	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_51695_77009.jpg

depression around WS concrete box

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**7.72**	Rating **	M	Issue No.	**160 (cont)**
LM End	**7.72**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.239458 °	39.239458 °
				-121.993398 °	-121.993398 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51695
DS_ID:17301
EP_NO: 9532
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/19/2017 Abandoned- erosion/depression present around the WS box (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned and erosion still present near WS box.(DWR Sutter Yard- Afreitag)6/1/2016 Appears to be an abandoned crossing.4/1/2015 Silted concrete box on WS. Depression/erosion around concrete box on WS.Silted concrete box on WS. Depression/erosion around concrete box on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch by 48-inch reinforced concrete box drainage culvert through the levee, 11.6 feet below the crown. Slide gate in a concrete box on the waterside (WS) slope. (3-foot by 4-foot culvert [HLM 7.73] authorized under Automatic Board Order (ABO) issued as Permit No. 9532, 1974 - Martin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 7.73)].
FS Date: 4/26/2017 2:38:29 PM

Photo 3 of 3 : UCIP_SP_2018_51695_77010.jpg

WS concrete box full of silt.

LM Start	**7.84**	Rating **	C	Issue No.	**119**
LM End	**7.84**	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.241087 °	39.241087 °
				-121.994223 °	-121.994223 °
DWR ID	DWR_ST0003_01_s _ 2017_119				

Comment Code

TR : Tree or limb

Inspector Comment

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

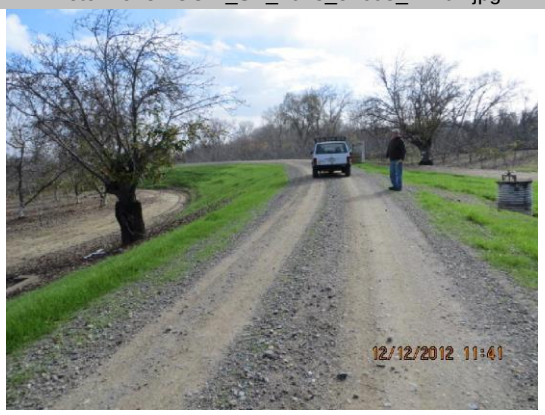
LM Start	**8.32**	Rating **	M	Issue No.	**161**
LM End	**8.32**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.246317 °	39.246317 °
				-121.998825 °	-121.998825 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51698
DS_ID:17304
EP_NO: 9529
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned (DWR Sutter Yard- Afreitag)6/1/2016 Abandoned- only WS riser and slide gate found.4/1/2015 CMP riser and slide gate on WS. LS distribution box is silted in. Looks abandoned. CMP riser with slide gate on WS. Concrete distribution box on LS- full with silt.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, invert 12.8 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete box at the landside (LS) toe. (24-inch pipe [HLM 8.35] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Company). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.35)].
FS Date: 4/26/2017 2:54:54 PM

Photo 1 of 3 : UCIP_SP_2018_51698_47202.jpg



Crown view: overview (both sides of the levee)

LM Start	**8.32**	Rating **	M	Issue No.	**161 (cont)**
LM End	**8.32**	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_51698_47201.jpg

Waterside view: overview of CMP riser

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**8.32**	Rating **	M	Issue No.	**161 (cont)**
LM End	**8.32**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.246317 °	39.246317 °
				-121.998825 °	-121.998825 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51698
DS_ID:17304
EP_NO: 9529
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned (DWR Sutter Yard- Afreitag)6/1/2016 Abandoned- only WS riser and slide gate found.4/1/2015 CMP riser and slide gate on WS. LS distribution box is silted in. Looks abandoned. CMP riser with slide gate on WS. Concrete distribution box on LS- full with silt.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, invert 12.8 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete box at the landside (LS) toe. (24-inch pipe [HLM 8.35] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Company). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.35)].
FS Date: 4/26/2017 2:54:54 PM

Photo 3 of 3 : UCIP_SP_2018_51698_47200.jpg

Landside view: overview of concrete box

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

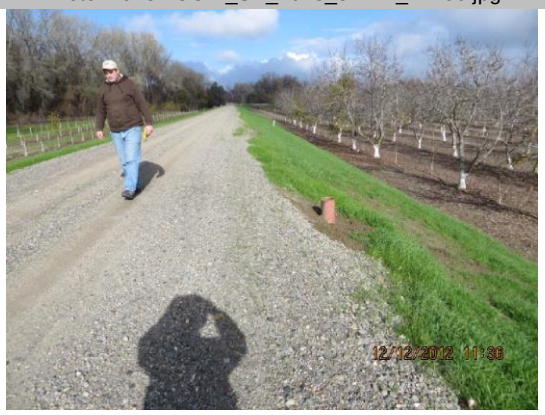
LM Start	**8.38**	Rating **	M	Issue No.	**162**
LM End	**8.38**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.247098 °	39.247098 °
				-121.999055 °	-121.999055 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51724
DS_ID:17338
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/19/2017 Still only LS airvent found. (DWR Sutter Yard- Afreitag)10/31/2016 Only the LS standpipe and airvent found.6/1/2016 Still only the vaccum breaker on LS shoulder visible.4/1/2015 Only vacuum breaker found on LS shoulder.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: Pipe of unknown diameter, purpose and material through the levee, at an unknown depth below the crown, not found. Vacuum breaker inside steel standpipe on the landside (LS) shoulder, found in 2015. [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 5/1/2017 8:31:33 AM

Photo 1 of 3 : UCIP_SP_2018_51724_47206.jpg



Waterside view: overview

LM Start	**8.38**	Rating **	M	Issue No.	**162 (cont)**
LM End	**8.38**	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_51724_47205.jpg

Waterside view: vacuum breaker inside a steel pipe

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**8.38**	Rating **	M	Issue No.	**162 (cont)**
LM End	**8.38**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.247098 °	39.247098 °
				-121.999055 °	-121.999055 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51724
DS_ID:17338
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/19/2017 Still only LS airvent found. (DWR Sutter Yard- Afreitag)10/31/2016 Only the LS standpipe and airvent found.6/1/2016 Still only the vaccum breaker on LS shoulder visible.4/1/2015 Only vacuum breaker found on LS shoulder.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: Pipe of unknown diameter, purpose and material through the levee, at an unknown depth below the crown, not found. Vacuum breaker inside steel standpipe on the landside (LS) shoulder, found in 2015. [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 5/1/2017 8:31:33 AM

Photo 3 of 3 : UCIP_SP_2018_51724_47204.jpg

Landside view: overview (no pipes)

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**8.52**	Rating **	A/W	Issue No.	**163**
LM End	**8.52**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.249125 °	39.249125 °
				-121.999031 °	-121.999031 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51725
DS_ID:17295
EP_NO: 9529
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 09/21/2017 Permit review indicates this 24-inch pipe was authorized as an irrigation and drainage pipe under ABO issued as Permit No. 9529, structure description was updated. Structure type logged as drainage. (DWR UCIP - O. Magana)
4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Pipe was exposed and camera inspected by Nor-Cal Pipeline Services 10/29/2015. Photos of the exposed pipe ends were uploaded on 4/1/2015. The internal inspection showed some signs of rust but no visible holes or deterioration were found. After the inspection the pipe ends were capped and reburied.6/9/2016 Khalida Fazel of UCIP requests that any photos of the pipe when it was exposed for a video inspection be kindly uploaded here.4/4/2016 Proper abandonment of pipe is needed. Pipe has been buried again after it was dug up and video inspected, so was not visible on LS. Note that landowner has regraded LS slope so drainage is now to the east (toward LS).4/1/2015 Both WS and LS pipe ends have been dug up in preparation for an internal camera inspection. Pipe shows signs of heavy rust and both ends of pipe are plugged with soil.Only a CMP riser with slide gate found on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch irrigation and drainage pipe through the levee, invert 11.5 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. (24-inch pipe [HLM 8.55] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Co.) [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.55)]
FS Date: 5/1/2017 8:37:22 AM

Photo 1 of 3 : UCIP_SP_2018_51725_47208.jpg

Waterside view: overview of CMP riser

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**8.52**	Rating **	A/W	Issue No.	**163 (cont)**
LM End	**8.52**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.249125 °	39.249125 °
				-121.999031 °	-121.999031 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51725
DS_ID:17295
EP_NO: 9529
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 09/21/2017 Permit review indicates this 24-inch pipe was authorized as an irrigation and drainage pipe under ABO issued as Permit No. 9529, structure description was updated. Structure type logged as drainage. (DWR UCIP - O. Magana)
4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Pipe was exposed and camera inspected by Nor-Cal Pipeline Services 10/29/2015. Photos of the exposed pipe ends were uploaded on 4/1/2015. The internal inspection showed some signs of rust but no visible holes or deterioration were found. After the inspection the pipe ends were capped and reburied.6/9/2016 Khalida Fazel of UCIP requests that any photos of the pipe when it was exposed for a video inspection be kindly uploaded here.4/4/2016 Proper abandonment of pipe is needed. Pipe has been buried again after it was dug up and video inspected, so was not visible on LS. Note that landowner has regraded LS slope so drainage is now to the east (toward LS).4/1/2015 Both WS and LS pipe ends have been dug up in preparation for an internal camera inspection. Pipe shows signs of heavy rust and both ends of pipe are plugged with soil.Only a CMP riser with slide gate found on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch irrigation and drainage pipe through the levee, invert 11.5 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. (24-inch pipe [HLM 8.55] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Co.) [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.55)]
FS Date: 5/1/2017 8:37:22 AM

Photo 2 of 3 : UCIP_SP_2018_51725_47207.jpg

Landside view: overview (no pipes)

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**8.52**	Rating **	A/W	Issue No.	**163 (cont)**
LM End	**8.52**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.249125 °	39.249125 °
				-121.999031 °	-121.999031 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51725
DS_ID:17295
EP_NO: 9529
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 09/21/2017 Permit review indicates this 24-inch pipe was authorized as an irrigation and drainage pipe under ABO issued as Permit No. 9529, structure description was updated. Structure type logged as drainage. (DWR UCIP - O. Magana)
4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Pipe was exposed and camera inspected by Nor-Cal Pipeline Services 10/29/2015. Photos of the exposed pipe ends were uploaded on 4/1/2015. The internal inspection showed some signs of rust but no visible holes or deterioration were found. After the inspection the pipe ends were capped and reburied.6/9/2016 Khalida Fazel of UCIP requests that any photos of the pipe when it was exposed for a video inspection be kindly uploaded here.4/4/2016 Proper abandonment of pipe is needed. Pipe has been buried again after it was dug up and video inspected, so was not visible on LS. Note that landowner has regraded LS slope so drainage is now to the east (toward LS).4/1/2015 Both WS and LS pipe ends have been dug up in preparation for an internal camera inspection. Pipe shows signs of heavy rust and both ends of pipe are plugged with soil.Only a CMP riser with slide gate found on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch irrigation and drainage pipe through the levee, invert 11.5 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. (24-inch pipe [HLM 8.55] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Co.) [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.55)]
FS Date: 5/1/2017 8:37:22 AM

Photo 3 of 3 : UCIP_SP_2018_51725_73640.jpg

WS pipe end

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**8.56**	Rating **	M	Issue No.	**164**
LM End	**8.56**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.249678 °	39.249678 °
				-121.999021 °	-121.999021 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51726
DS_ID:17327
EP_NO: 9528
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Pipe was internally cleaned and camera inspected by Nor-Cal Pipeline Services on 10/29/2015. Pipe length through levee is 75.1ft long. The inspection showed some signs of rust but no holes or other deterioration were found. Pics of exposed pipe ends were uploaded on 4/1/2015. After the inspection the pipe ends were capped and reburied.4/14/2016- Same as last inspection.4/1/2015- Both ends of pipe have been dug up in preparation for internal camera inspections. Pipe shows some rust but appears to be in decent shape. Only buried slide gate structure found.6/30/2014- Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 12.5 feet below the crown. Slide gate on the waterside (WS). (Automatic Board Order (ABO) issued as Permit No. 9528, 1974 - Lamb). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.59)].
FS Date: 5/1/2017 8:51:02 AM

Photo 1 of 3 : UCIP_SP_2018_51726_47210.jpg

Waterside view: overview

LM Start	**8.56**	Rating **	M	Issue No.	**164 (cont)**
LM End	**8.56**	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_51726_47209.jpg

Waterside view: burried slide gate

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**8.56**	Rating **	M	Issue No.	**164 (cont)**
LM End	**8.56**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.249678 °	39.249678 °
				-121.999021 °	-121.999021 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51726
DS_ID:17327
EP_NO: 9528
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Pipe was internally cleaned and camera inspected by Nor-Cal Pipeline Services on 10/29/2015. Pipe length through levee is 75.1ft long. The inspection showed some signs of rust but no holes or other deterioration were found. Pics of exposed pipe ends were uploaded on 4/1/2015. After the inspection the pipe ends were capped and reburied.4/14/2016- Same as last inspection.4/1/2015- Both ends of pipe have been dug up in preparation for internal camera inspections. Pipe shows some rust but appears to be in decent shape. Only buried slide gate structure found.6/30/2014- Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 12.5 feet below the crown. Slide gate on the waterside (WS). (Automatic Board Order (ABO) issued as Permit No. 9528, 1974 - Lamb). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.59)].
FS Date: 5/1/2017 8:51:02 AM

Photo 3 of 3 : UCIP_SP_2018_51726_73649.jpg

WS pipe end

LM Start	**8.59**	Rating **	M	Issue No.	**112**
LM End	**8.59**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.250190 °	39.250190 °
				-121.998858 °	-121.998858 °
DWR ID	DWR_ST0003_01_s _ 2018_112				

Comment Code

PR : Prunings

Inspector Comment

Remove the prunings from the landside toe.

Photo 1 of 1 : SP_2018_ST0003_264_112_20180430_00190.jpg

View of the prunings along the landside toe.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**8.65**	Rating **	M	Issue No.	**94**
LM End	**8.65**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.250774 °	39.250774 °
				-121.998242 °	-121.998242 °
DWR ID	DWR_ST0003_01_f _ 2016_94				

Comment Code

TR : Tree or limb

Inspector Comment

No Photos

LM Start	**8.70**	Rating **	M	Issue No.	**165**
LM End	**8.70**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.251504 °	39.251504 °
				-121.997879 °	-121.997879 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51728
DS_ID:17352
EP_NO: 9523
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Abandoned crossing.4/14/2016 Appears abandoned and if so, should be done so properly. Borrowing activity on landside (LS).8/28/2015 Pipe has been dug up and located along the WS levee toe.6/30/2014 Unable to locate.12/18/2013 Unable to locate.7/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: *ABANDONED* 10-inch concrete encased steel drainage pipe through the levee, invert 15 feet below the crown, not found in 2016. Gate valve in a 42-inch corrugated metal pipe riser on the waterside (WS) slope, found in 2016. (10-inch pipe [HLM 8.7] authorized under Automatic Board Order (ABO) issued as Permit No. 9523, 1974 - Blackmon)[Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.7)].
FS Date: 5/1/2017 8:59:37 AM

Photo 1 of 3 : UCIP_SP_2018_51728_74662.jpg

View of LS

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**8.70**	Rating **	M	Issue No.	**165 (cont)**
LM End	**8.70**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.251504 °	39.251504 °
				-121.997879 °	-121.997879 °
DWR ID					

Comment Code

Inspector Comment

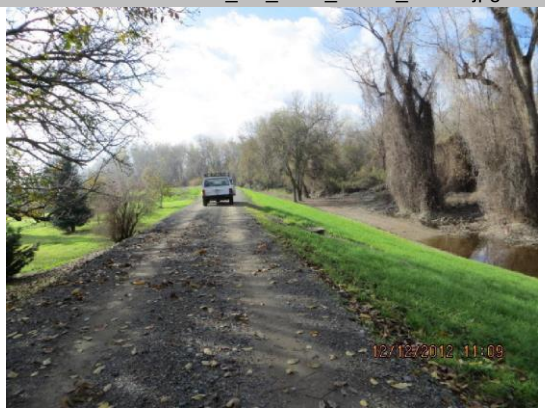
FS_ID:51728
DS_ID:17352
EP_NO: 9523
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Abandoned crossing.4/14/2016 Appears abandoned and if so, should be done so properly. Borrowing activity on landside (LS).8/28/2015 Pipe has been dug up and located along the WS levee toe.6/30/2014 Unable to locate.12/18/2013 Unable to locate.7/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: *ABANDONED* 10-inch concrete encased steel drainage pipe through the levee, invert 15 feet below the crown, not found in 2016. Gate valve in a 42-inch corrugated metal pipe riser on the waterside (WS) slope, found in 2016. (10-inch pipe [HLM 8.7] authorized under Automatic Board Order (ABO) issued as Permit No. 9523, 1974 - Blackmon)[Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.7)].
FS Date: 5/1/2017 8:59:37 AM

Photo 2 of 3 : UCIP_SP_2018_51728_74661.jpg

42-inch riser on WS shoulder.

LM Start	**8.70**	Rating **	M	Issue No.	**165 (cont)**
LM End	**8.70**	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_51728_74660.jpg



View from crown of levee looking downstream.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**8.75**	Rating **	U	Issue No.	**166**
LM End	**8.75**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.252121 °	39.252121 °
				-121.997740 °	-121.997740 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51729
DS_ID:17353
EP_NO: 4491
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/19/2017 4in. pipe still showing signs of deterioration near WS toe. (DWR Sutter Yard- Afreitag)10/31/2016 Pipe still exposed along the WS toe and is rusted and corroded. If it is still in use by the owner then it should be rebuilt.(DWR Sutter Yard- Afreitag)6/13/2016 Pipe was dug up on WS and photographed. It was originally selected for internal inspection but was unable to be as there was no access to the inside of the 4" pipe. (DWR Sutter Yard - afreitag)4/14/2016 Signs of corrosion on pipe and valve on LS. Pipe in use according to Bryan Reniff of Sutter Yard. (DWR UCIP - kfazel)8/28/2015 Pipe was dug up and located on the WS levee toe. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/23/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/11/2012 Only abandoned slide gate found on WS. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 4-inch steel drainage pipe sleeved through 24-inch corrugated metal pipe through the levee, 16.7 feet below the crown. Annular space has been pressure grouted. Slide gate on the waterside (WS) end. Gate valve at the landside (LS) toe. (Permit No. 4491, 1964 - Blackmore). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.74)].
FS Date: 5/1/2017 9:06:02 AM

Photo 1 of 3 : UCIP_SP_2018_51729_47216.jpg

Waterside view: overview of slide gate on steel structure (belongs to crossing at CLM-8.782)

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**8.75**	Rating **	U	Issue No.	**166 (cont)**
LM End	**8.75**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.252121 °	39.252121 °
				-121.997740 °	-121.997740 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51729
DS_ID:17353
EP_NO: 4491
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/19/2017 4in. pipe still showing signs of deterioration near WS toe. (DWR Sutter Yard- Afreitag)10/31/2016 Pipe still exposed along the WS toe and is rusted and corroded. If it is still in use by the owner then it should be rebuilt.(DWR Sutter Yard- Afreitag)6/13/2016 Pipe was dug up on WS and photographed. It was originally selected for internal inspection but was unable to be as there was no access to the inside of the 4" pipe. (DWR Sutter Yard - afreitag)4/14/2016 Signs of corrosion on pipe and valve on LS. Pipe in use according to Bryan Reniff of Sutter Yard. (DWR UCIP - kfazel)8/28/2015 Pipe was dug up and located on the WS levee toe. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/23/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/11/2012 Only abandoned slide gate found on WS. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 4-inch steel drainage pipe sleeved through 24-inch corrugated metal pipe through the levee, 16.7 feet below the crown. Annular space has been pressure grouted. Slide gate on the waterside (WS) end. Gate valve at the landside (LS) toe. (Permit No. 4491, 1964 - Blackmore). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.74)].
FS Date: 5/1/2017 9:06:02 AM

Photo 2 of 3 : UCIP_SP_2018_51729_47215.jpg

Waterside view: slide gate on steel structure (belongs to crossing at CLM-8.782)

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**8.75**	Rating **	U	Issue No.	**166 (cont)**
LM End	**8.75**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.252121 °	39.252121 °
				-121.997740 °	-121.997740 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51729
DS_ID:17353
EP_NO: 4491
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/19/2017 4in. pipe still showing signs of deterioration near WS toe. (DWR Sutter Yard- Afreitag)10/31/2016 Pipe still exposed along the WS toe and is rusted and corroded. If it is still in use by the owner then it should be rebuilt.(DWR Sutter Yard- Afreitag)6/13/2016 Pipe was dug up on WS and photographed. It was originally selected for internal inspection but was unable to be as there was no access to the inside of the 4" pipe. (DWR Sutter Yard - afreitag)4/14/2016 Signs of corrosion on pipe and valve on LS. Pipe in use according to Bryan Reniff of Sutter Yard. (DWR UCIP - kfazel)8/28/2015 Pipe was dug up and located on the WS levee toe. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/23/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/11/2012 Only abandoned slide gate found on WS. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 4-inch steel drainage pipe sleeved through 24-inch corrugated metal pipe through the levee, 16.7 feet below the crown. Annular space has been pressure grouted. Slide gate on the waterside (WS) end. Gate valve at the landside (LS) toe. (Permit No. 4491, 1964 - Blackmore). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.74)].
FS Date: 5/1/2017 9:06:02 AM

Photo 3 of 3 : UCIP_SP_2018_51729_47214.jpg

Waterside view: close view of slide gate (belongs to crossing at CLM-8.782)

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**8.75**	Rating **	U	Issue No.	**2**
LM End	**8.75**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.252260 °	39.252260 °
				-121.997721 °	-121.997721 °
DWR ID	DWR_ST0003_01_s _ 2012_2				

Comment Code

BU : Building

Inspector Comment

Photo 1 of 1 : SP_2018_ST0003_264_2_20180305_00002.jpg

View of the building next to the toe of the levee.

LM Start	**8.86**	Rating **	C	Issue No.	**121**
LM End	**8.86**	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.253722 °	39.253722 °
				-121.997483 °	-121.997483 °
DWR ID	DWR_ST0003_01_s _ 2017_121				

Comment Code

TR : Tree or limb

Inspector Comment

No Photos

LM Start	**8.92**	Rating **	N	Issue No.	**92**
LM End	**8.92**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.254563 °	39.254563 °
				-121.997493 °	-121.997493 °
DWR ID	DWR_ST0003_01_f _ 2016_92				

Comment Code

T5 : Tree stumps.

Inspector Comment

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**9.03**	Rating **	M	Issue No.	**122**
LM End	**9.03**	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.256140°	39.256140°
				-121.997787°	-121.997787°
DWR ID	DWR_ST0003_01_s _ 2017_122				

Comment Code

TR : Tree or limb

Inspector Comment

No Photos

LM Start	**9.03**	Rating **	N	Issue No.	**91**
LM End	**9.03**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.256141°	39.256141°
				-121.997785°	-121.997785°
DWR ID	DWR_ST0003_01_f _ 2016_91				

Comment Code

T5 : Tree stumps.

Inspector Comment

No Photos

LM Start	**9.17**	Rating **	N	Issue No.	**90**
LM End	**9.17**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.257688°	39.257688°
				-121.999331°	-121.999331°
DWR ID	DWR_ST0003_01_f _ 2016_90				

Comment Code

T5 : Tree stumps.

Inspector Comment

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**9.23**	Rating **	M	Issue No.	**89**
LM End	**9.23**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.257989 °	39.257989 °
				-122.000367 °	-122.000367 °
DWR ID	DWR_ST0003_01_f _ 2016_89				

Comment Code

PR : Prunings

Inspector Comment

Remove prunings from the landside toe.

Photo 1 of 1 : SP_2018_ST0003_264_89_20180430_00191.jpg

View of the prunings along the landside toe.

LM Start	**9.35**	Rating **	C	Issue No.	**124**
LM End	**9.35**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.259675 °	39.259675 °
				-122.000950 °	-122.000950 °
DWR ID	DWR_ST0003_01_s _ 2017_124				

Comment Code

TR : Tree or limb

Inspector Comment

The tree was removed from the water side toe.

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**9.37**	Rating **	A/W	Issue No.	**167**
LM End	**9.37**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.260034 °	39.260034 °
				-122.000970 °	-122.000970 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51731
DS_ID:17355
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Pipe was internally cleaned and camera inspected on 10/30/2015 by Nor-Cal Pipeline Services. WS cap was removed and 100.6ft of pipe were inspected starting from the WS opening. Inspection revealed rusting but no visible holes or other deterioration were found. Pipe was recapped after the inspection. This pipe is always visible so no new photos were taken during the inspection.6/9/2016 Khalida Fazel of UCIP requests that any photos of the pipe when it was exposed for a video inspection be kindly uploaded here.4/1/2015 Pipe is in same condition. It has been selected for an internal camera inspection. New CMP pipe on WS capped with steel plate.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Slide gate on the landside (LS) headwall. Steel plate welded on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 9.4)].
FS Date: 5/1/2017 9:16:26 AM

Photo 1 of 3 : UCIP_SP_2018_51731_47242.jpg

Waterside view: overview

LM Start	**9.37**	Rating **	A/W	Issue No.	**167 (cont)**
LM End	**9.37**	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_51731_47241.jpg

Waterside view: overview of CMP pipe

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**9.37**	Rating **	A/W	Issue No.	**167 (cont)**
LM End	**9.37**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.260034 °	39.260034 °
				-122.000970 °	-122.000970 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51731
DS_ID:17355
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Pipe was internally cleaned and camera inspected on 10/30/2015 by Nor-Cal Pipeline Services. WS cap was removed and 100.6ft of pipe were inspected starting from the WS opening. Inspection revealed rusting but no visible holes or other deterioration were found. Pipe was recapped after the inspection. This pipe is always visible so no new photos were taken during the inspection.6/9/2016 Khalida Fazel of UCIP requests that any photos of the pipe when it was exposed for a video inspection be kindly uploaded here.4/1/2015 Pipe is in same condition. It has been selected for an internal camera inspection. New CMP pipe on WS capped with steel plate.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Slide gate on the landside (LS) headwall. Steel plate welded on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 9.4)].
FS Date: 5/1/2017 9:16:26 AM

Photo 3 of 3 : UCIP_SP_2018_51731_47240.jpg

Waterside view: capped CMP pipe

LM Start	**9.74**	Rating **	M	Issue No.	**113**
LM End	**9.74**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.264740 °	39.264740 °
				-121.998288 °	-121.998288 °
DWR ID	DWR_ST0003_01_s _ 2018_113				

Comment Code

PR : Prunings

Inspector Comment

Remove the prunings from the landside toe.

Photo 1 of 1 : SP_2018_ST0003_264_113_20180430_00193.jpg

View of the prunings along the landside toe.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**10.27**	Rating **	C	Issue No.	**4**
LM End	**10.27**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.270431°	39.270431°
				-121.999782°	-121.999782°
DWR ID	DWR_ST0003_01_s _ 2012_4				

Comment Code

BU : Building

Inspector Comment

No Photos

LM Start	**10.35**	Rating **	A/W	Issue No.	**168**
LM End	**10.35**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.270492°	39.270492°
				-122.001306°	-122.001306°
DWR ID					

Comment Code

Inspector Comment

FS_ID:51734
DS_ID:17358
EP_NO: 9517
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/19/2017 No WS end found/ slide gate handle broken. (DWR Sutter Yard- Afreitag)10/31/2016 Slide gate handle is broken and no WS pipe end can be located. (DWR Sutter Yard-Afreitag)6/1/2016 WS slide gate handle is still broken. No WS pipe end was found.4/1/2015 Slide gate handle is still broken. The rest of the pipe appears in good condition. Broken slide gate handle found on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Slide gate in a concrete distribution box on the landside (LS) toe. (48-inch pipe [HLM 10.39] authorized under Automatic Board Order (ABO) issued as Permit No. 9517, 1974 - Griffin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.47)].
FS Date: 5/1/2017 9:32:45 AM

Photo 1 of 3 : UCIP_SP_2018_51734_47263.jpg

Crown view: overview (both sides of the levee)

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**10.35**	Rating **	A/W	Issue No.	**168 (cont)**
LM End	**10.35**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.270492 °	39.270492 °
				-122.001306 °	-122.001306 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51734
DS_ID:17358
EP_NO: 9517
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/19/2017 No WS end found/ slide gate handle broken. (DWR Sutter Yard- Afreitag)10/31/2016 Slide gate handle is broken and no WS pipe end can be located. (DWR Sutter Yard- Afreitag)6/1/2016 WS slide gate handle is still broken. No WS pipe end was found.4/1/2015 Slide gate handle is still broken. The rest of the pipe appears in good condition. Broken slide gate handle found on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Slide gate in a concrete distribution box on the landside (LS) toe. (48-inch pipe [HLM 10.39] authorized under Automatic Board Order (ABO) issued as Permit No. 9517, 1974 - Griffin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.47)].
FS Date: 5/1/2017 9:32:45 AM

Photo 2 of 3 : UCIP_SP_2018_51734_47262.jpg

Waterside view: overview of CMP riser

LM Start	**10.35**	Rating **	A/W	Issue No.	**168 (cont)**
LM End	**10.35**	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2018_51734_47268.jpg

Waterside view: inside CMP riser

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**10.36**	Rating **	M	Issue No.	**5**
LM End	**10.36**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.270503 °	39.270503 °
				-122.001339 °	-122.001339 °
DWR ID	DWR_ST0003_01_s _ 2012_5				

Comment Code

V4 : Elderberries are blocking visibility and flood fight capability.

Inspector Comment

The Elderberry is partially blocking visibility.

No Photos

LM Start	**10.51**	Rating **	M	Issue No.	**169**
LM End	**10.51**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.271928 °	39.271928 °
				-122.003422 °	-122.003422 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51735
DS_ID:17371
EP_NO: 9517
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/1/2016 Abandoned crossing.4/2/2015 Same as last inspection. Need to verify type of abandonment. Pump house not found on waterside of the levee. Looks abandoned as switch panel found without pump.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation pipe through the levee, 17.1 feet below the crown. Gate valve and flap gate in a concrete distribution box. Water meter in a corrugated metal pipe (CMP) riser at the landside (LS) toe. Gate valve in a CMP on the waterside (WS). Pipe was replaced in November 2005. (Automatic Board Order (ABO) issued as Permit No. 9517, 1974 - Griffin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.53)].
FS Date: 5/1/2017 9:39:39 AM

Photo 1 of 3 : UCIP_SP_2018_51735_47270.jpg

Waterside view: CMP riser and abandoned service pole

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**10.51**	Rating **	M	Issue No.	**169 (cont)**
LM End	**10.51**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.271928 °	39.271928 °
				-122.003422 °	-122.003422 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51735
DS_ID:17371
EP_NO: 9517
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/1/2016 Abandoned crossing.4/2/2015 Same as last inspection. Need to verify type of abandonment. Pump house not found on waterside of the levee. Looks abandoned as switch panel found without pump.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation pipe through the levee, 17.1 feet below the crown. Gate valve and flap gate in a concrete distribution box. Water meter in a corrugated metal pipe (CMP) riser at the landside (LS) toe. Gate valve in a CMP on the waterside (WS). Pipe was replaced in November 2005. (Automatic Board Order (ABO) issued as Permit No. 9517, 1974 - Griffin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.53)].
FS Date: 5/1/2017 9:39:39 AM

Photo 2 of 3 : UCIP_SP_2018_51735_47269.jpg

Waterside view: CMP riser with gate valve

LM Start	**10.51**	Rating **	M	Issue No.	**169 (cont)**
LM End	**10.51**	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_51735_47273.jpg

Waterside view: abandoned pump station.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**10.69**	Rating **	M	Issue No.	**170**
LM End	**10.69**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.274090 °	39.274090 °
				-122.005263 °	-122.005263 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51737
DS_ID:17350
EP_NO: 1369
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- AFreitag)6/1/2016 Appears to be an abandoned crossing.4/2/2015 Same as last inspection. Looks abandoned and if so should be done so properly. Pump and switch panel not found. Outlet pipe blocked by silt and debris.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel irrigation pipe through the levee, 4 feet below the crown. Siphon breaker on the landside (LS) slope. Concrete distribution box on the LS toe. (Permit No. 1369, 1949 - Griffin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.68)].
FS Date: 5/1/2017 9:44:43 AM

Photo 1 of 3 : UCIP_SP_2018_51737_47284.jpg

Crown view: overview (both sides of the levee)

LM Start	**10.69**	Rating **	M	Issue No.	**170 (cont)**
LM End	**10.69**	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_51737_47283.jpg

Waterside view: overview of exposed steel pipe

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**10.69**	Rating **	M	Issue No.	**170 (cont)**
LM End	**10.69**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.274090 °	39.274090 °
				-122.005263 °	-122.005263 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51737
DS_ID:17350
EP_NO: 1369
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- AFreitag)6/1/2016 Appears to be an abandoned crossing.4/2/2015 Same as last inspection. Looks abandoned and if so should be done so properly. Pump and switch panel not found. Outlet pipe blocked by silt and debris.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel irrigation pipe through the levee, 4 feet below the crown. Siphon breaker on the landside (LS) slope. Concrete distribution box on the LS toe. (Permit No. 1369, 1949 - Griffin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.68)].
FS Date: 5/1/2017 9:44:43 AM

Photo 3 of 3 : UCIP_SP_2018_51737_47287.jpg

Waterside view: beyond exposed steel pipe (not accessible)

LM Start	**11.53**	Rating **	M	Issue No.	**8**
LM End	**11.79**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.279910 °	39.283853 °
				-122.018221 °	-122.016113 °
DWR ID	DWR_ST0003_01_s _ 2016_8				

Comment Code

Inspector Comment

2008 - Large rotational/mass failure in the bank with tree slump. 2009 - Minimal new erosion, the tree is leaning further into the river. 2011 - Site extended downstream. 2012 - Minor new erosion and tree roots are further exposed. 2015: Last observed in 2013. [2015 Site ID: SAC_152-6_L]

Photo 1 of 1 : SP_2018_ST0003_264_8_20180305_00007.jpg

USACE 2013 Photo #1

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**11.67**	Rating **	M	Issue No.	**6**
LM End	**11.90**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.282064°	39.285084°
				-122.016517°	-122.014815°
DWR ID	DWR_ST0003_01_s _ 2012_6				

Comment Code

DT : Ditch

Inspector Comment

Photo 1 of 1 : SP_2018_ST0003_264_6_20180305_00005.jpg

View of the ditch along the landside toe.

LM Start	**11.85**	Rating **	M	Issue No.	**1**
LM End	**11.90**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.331447°	39.332716°
				-122.029440°	-122.029953°
DWR ID	DWR_ST0003_01_s _ 2016_1				

Comment Code

Inspector Comment

2004 - Slowly eroding but near vertical with no vegetation to hold it. 2005 - Erosion is close to levee toe but not into the levee section yet. 2010 - Some new toe scour. 2015: Last observed in 2013. [2015 Site ID: SAC_157-7_R]

Photo 1 of 1 : SP_2018_ST0003_264_1_20180305_00001.jpg

USACE 2013 Photo #1

LM Start	**11.85**	Rating **	M	Issue No.	**13**
LM End	**11.90**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.284568°	39.285298°
				-122.015690°	-122.015208°
DWR ID	DWR_ST0003_01_s _ 2016_13				

Comment Code

Inspector Comment

2006 - Large rotational/mass failure in the bank with tree slump. Tough clayey toe material. 2007 - Site is between stone revetments with a pump station at the downstream end. 2010 - Erosion is into the levee toe. 2011 - Minor new erosion. 2012 - Minor new erosion. 2015: Last observed in 2013. [2015 Site ID: SAC_152-8_L]

Photo 1 of 1 : SP_2018_ST0003_264_13_20180305_00011.jpg

USACE 2013 Photo #1

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**11.94**	Rating **	M	Issue No.	**7**
LM End	**12.18**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.285658 °	39.288978 °
				-122.014574 °	-122.013892 °
DWR ID	DWR_ST0003_01_s _ 2012_7				

Comment Code

DT : Ditch

Inspector Comment

Photo 1 of 1 : SP_2018_ST0003_264_7_20180305_00006.jpg

View of the ditch along the landside toe.

LM Start	**12.04**	Rating **	C	Issue No.	**77**
LM End	**12.04**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.286958 °	39.286958 °
				-122.014033 °	-122.014033 °
DWR ID	DWR_ST0003_01_f _ 2016_77				

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

The rodent holes was repaired along the landside slope.

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**12.06**	Rating **	M	Issue No.	**171**
LM End	**12.06**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.287251 °	39.287251 °
				-122.014076 °	-122.014076 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51743
DS_ID:17365
EP_NO: 9514
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/19/2017 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)10/31/2016 Crossing appears to be in good condition.(DWR Sutter Yard- AFreitag)6/6/2016 Crossing appears to be in good condition. New wooden cover was made for WS surge tank.4/2/2015 Everything looked to be in good condition. Concrete surge tank still has some silting. Gate valve in CMP riser not visible. Flap gate in concrete distribution box on LS not visible/accessible. Looks like cleaning required inside concrete surge tank on WS due to silting.7/2/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Pump running and WS surge tank was full of water so not sure if silt was cleaned out. LS flap gate was visible and is in good condition.
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 18.1 feet below the crown. Pump house on the waterside (WS) slope. Gate valve in a corrugated metal riser on the WS toe. Flap gate in a concrete distribution box at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9514, 1974 - Boggs). [Additional Reference(s): Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.05)].
FS Date: 5/1/2017 9:57:28 AM

Photo 1 of 3 : UCIP_SP_2018_51743_47306.jpg

Waterside view: overview pipe, pump, surge box & CMP riser

LM Start	**12.06**	Rating **	M	Issue No.	**171 (cont)**
LM End	**12.06**	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_51743_47305.jpg

Waterside view: steel pipe, pump, surge box & CMP riser

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**12.06**	Rating **	M	Issue No.	**171 (cont)**
LM End	**12.06**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.287251 °	39.287251 °
				-122.014076 °	-122.014076 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51743
DS_ID:17365
EP_NO: 9514
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/19/2017 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)10/31/2016 Crossing appears to be in good condition.(DWR Sutter Yard- AFreitag)6/6/2016 Crossing appears to be in good condition. New wooden cover was made for WS surge tank.4/2/2015 Everything looked to be in good condition. Concrete surge tank still has some silting. Gate valve in CMP riser not visible. Flap gate in concrete distribution box on LS not visible/accessible. Looks like cleaning required inside concrete surge tank on WS due to silting.7/2/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Pump running and WS surge tank was full of water so not sure if silt was cleaned out. LS flap gate was visible and is in good condition.
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 18.1 feet below the crown. Pump house on the waterside (WS) slope. Gate valve in a corrugated metal riser on the WS toe. Flap gate in a concrete distribution box at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9514, 1974 - Boggs). [Additional Reference(s): Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.05)].
FS Date: 5/1/2017 9:57:28 AM

Photo 3 of 3 : UCIP_SP_2018_51743_47304.jpg

Waterside view: pump switch box, surge box & CMP riser

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**12.43**	Rating **	M	Issue No.	**172**
LM End	**12.43**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.292608 °	39.292608 °
				-122.013483 °	-122.013483 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51744
DS_ID:17366
EP_NO: 9513
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 2.5in. GI pipe was removed and replaced with a section of 2.5in. flexible hose that can easily be removed to allow the slide gate to fully close for high water season. (DWR Sutter Yard- Afreitag)10/31/2016 2.5in. pipe still blocking the screwgate. (DWR Sutter Yard- AFreitag)6/6/2016 2.5inch pipe still present through crossing. (DWR Sutter Yard - afreitag)4/14/2016 2.5-inch pipe still preventing slide gate from fully closing on WS. Recommend LMA contact owner to address removal of unauthorized 2.5-inch pipe. Owner must either contact CVFPB for permitting of 2.5-inch pipe or remove it. (DWR UCIP - kfazel)4/2/2015 2.5in pipe is still present and prevents the slide gate from fully closing. (DWR Sutter Yard - afreitag)7/2/2014 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/11/2012 A 2.5 inch GI pipe through 36 inch CMP found. A 2 inch electrical conduit also found. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, invert 16.5 feet below the crown. Slide gate in a concrete surge box on the waterside (WS) berm. 2.5-inch pipe through the 24-inch pipe preventing closing of the slide gate on the WS. Slant pump on the riverbank. Concrete distribution box at the landside (LS) toe. 2-inch electrical conduit through the levee, visible on the WS adjacent to the walkway. (Automatic Board Order (ABO) issued as Permit No. 9513, 1974 - Boggs). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.42)].
FS Date: 5/1/2017 9:58:54 AM

Photo 1 of 3 : UCIP_SP_2018_51744_47313.jpg

Waterside view: overview of slanted pump and shed

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**12.43**	Rating **	M	Issue No.	**172 (cont)**
LM End	**12.43**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.292608 °	39.292608 °
				-122.013483 °	-122.013483 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51744
DS_ID:17366
EP_NO: 9513
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 2.5in. GI pipe was removed and replaced with a section of 2.5in. flexible hose that can easily be removed to allow the slide gate to fully close for high water season. (DWR Sutter Yard- Afreitag)10/31/2016 2.5in. pipe still blocking the screwgate. (DWR Sutter Yard- AFreitag)6/6/2016 2.5inch pipe still present through crossing. (DWR Sutter Yard - afreitag)4/14/2016 2.5-inch pipe still preventing slide gate from fully closing on WS. Recommend LMA contact owner to address removal of unauthorized 2.5-inch pipe. Owner must either contact CVFPB for permitting of 2.5-inch pipe or remove it. (DWR UCIP - kfazel)4/2/2015 2.5in pipe is still present and prevents the slide gate from fully closing. (DWR Sutter Yard - afreitag)7/2/2014 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/11/2012 A 2.5 inch GI pipe through 36 inch CMP found. A 2 inch electrical conduit also found. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, invert 16.5 feet below the crown. Slide gate in a concrete surge box on the waterside (WS) berm. 2.5-inch pipe through the 24-inch pipe preventing closing of the slide gate on the WS. Slant pump on the riverbank. Concrete distribution box at the landside (LS) toe. 2-inch electrical conduit through the levee, visible on the WS adjacent to the walkway. (Automatic Board Order (ABO) issued as Permit No. 9513, 1974 - Boggs). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.42)].
FS Date: 5/1/2017 9:58:54 AM

Photo 2 of 3 : UCIP_SP_2018_51744_47312.jpg

Waterside view: pump station and walkway

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**12.43**	Rating **	M	Issue No.	**172 (cont)**
LM End	**12.43**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.292608 °	39.292608 °
				-122.013483 °	-122.013483 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51744
DS_ID:17366
EP_NO: 9513
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 2.5in. GI pipe was removed and replaced with a section of 2.5in. flexible hose that can easily be removed to allow the slide gate to fully close for high water season. (DWR Sutter Yard- Afreitag)10/31/2016 2.5in. pipe still blocking the screwgate. (DWR Sutter Yard- AFreitag)6/6/2016 2.5inch pipe still present through crossing. (DWR Sutter Yard - afreitag)4/14/2016 2.5-inch pipe still preventing slide gate from fully closing on WS. Recommend LMA contact owner to address removal of unauthorized 2.5-inch pipe. Owner must either contact CVFPB for permitting of 2.5-inch pipe or remove it. (DWR UCIP - kfazel)4/2/2015 2.5in pipe is still present and prevents the slide gate from fully closing. (DWR Sutter Yard - afreitag)7/2/2014 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/11/2012 A 2.5 inch GI pipe through 36 inch CMP found. A 2 inch electrical conduit also found. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, invert 16.5 feet below the crown. Slide gate in a concrete surge box on the waterside (WS) berm. 2.5-inch pipe through the 24-inch pipe preventing closing of the slide gate on the WS. Slant pump on the riverbank. Concrete distribution box at the landside (LS) toe. 2-inch electrical conduit through the levee, visible on the WS adjacent to the walkway. (Automatic Board Order (ABO) issued as Permit No. 9513, 1974 - Boggs). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.42)].
FS Date: 5/1/2017 9:58:54 AM

Photo 3 of 3 : UCIP_SP_2018_51744_47311.jpg

Waterside view: steel pipe, GI pipe in concrete surge box

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**12.56**	Rating **	U	Issue No.	**173**
LM End	**12.56**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.294449 °	39.294449 °
				-122.013871 °	-122.013871 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51746
DS_ID:17367
EP_NO: 2971
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Sink hole behind the WS surge box got a lot bigger after the high water event of Jan/Feb 2017. Pipe also had a leak during that time buy not sure if it was due to the sink hole or a faulty slide gate. (DWR Sutter Yard- AFreitag)10/31/2016 No repairs have been made here yet. SInkhole is stil lpresent at the WS surge box.(DWR Sutter Yard- AFreitag)6/6/2016 Pumps were connnected to intake pipes and pumping into the WS surge box. The deep sink hole above the surge box measures to be about 6'6" deep from the toe road surface and it appeared to be wet in the bottom indicating the cracks in the concrete may be letting water seep through and wash out the sediment behind the wall. The surge box was full of water so could not observe the sediment build up in the bottom of the box. (DWR Sutter Yard - afreitag)4/14/2016 Deep sink hole above surge box on WS, possibly caused by burrowing, possibly creating conduit for seepage into surge box, which may explain presence of water in box. Recommend pipe be video inspected. Recommend taking another photo in summer to observe possible sediment buildup in box. (DWR UCIP - kfazel)4/2/2015 Pipe has small leak during times of high water. Not sure of the cause. Pumps taken out from the pipe (may be for repairs). Only control board found. LS wing wall minor damage. (DWR Sutter Yard - afreitag)7/2/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/19/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/23/2013 Pump motors attatched to pipes and running. Think pumps were disconnected during last inspection to keep motors above water for high water season. (DWR Sutter Yard - afreitag)12/11/2012 Pumps taken out from the pipe (may be for repairs). Only control board found. LS wing wall minor damage. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 20 feet below the crown. Concrete headwall on the landside (LS) with meter. Slide gate on the waterside (WS) end. Two slant pumps on the WS bank discharging into a concrete distribution box at the WS toe. Switch panel on the WS. (Permit No. 2971, 1959 - Sartain). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.55)].
FS Date: 5/1/2017 10:06:47 AM

Photo 1 of 3 : UCIP_SP_2018_51746_47323.jpg

Waterside view: overview

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**12.56**	Rating **	U	Issue No.	**173 (cont)**
LM End	**12.56**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.294449 °	39.294449 °
				-122.013871 °	-122.013871 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51746
DS_ID:17367
EP_NO: 2971
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Sink hole behind the WS surge box got a lot bigger after the high water event of Jan/Feb 2017. Pipe also had a leak during that time buy not sure if it was due to the sink hole or a faulty slide gate. (DWR Sutter Yard- AFreitag)10/31/2016 No repairs have been made here yet. SInkhole is stil lpresent at the WS surge box.(DWR Sutter Yard- AFreitag)6/6/2016 Pumps were connnected to intake pipes and pumping into the WS surge box. The deep sink hole above the surge box measures to be about 6'6" deep from the toe road surface and it appeared to be wet in the bottom indicating the cracks in the concrete may be letting water seep through and wash out the sediment behind the wall. The surge box was full of water so could not observe the sediment build up in the bottom of the box. (DWR Sutter Yard - afreitag)4/14/2016 Deep sink hole above surge box on WS, possibly caused by burrowing, possibly creating conduit for seepage into surge box, which may explain presence of water in box. Recommend pipe be video inspected. Recommend taking another photo in summer to observe possible sediment buildup in box. (DWR UCIP - kfazel)4/2/2015 Pipe has small leak during times of high water. Not sure of the cause. Pumps taken out from the pipe (may be for repairs). Only control board found. LS wing wall minor damage. (DWR Sutter Yard - afreitag)7/2/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/19/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/23/2013 Pump motors attatched to pipes and running. Think pumps were disconnected during last inspection to keep motors above water for high water season. (DWR Sutter Yard - afreitag)12/11/2012 Pumps taken out from the pipe (may be for repairs). Only control board found. LS wing wall minor damage. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 20 feet below the crown. Concrete headwall on the landside (LS) with meter. Slide gate on the waterside (WS) end. Two slant pumps on the WS bank discharging into a concrete distribution box at the WS toe. Switch panel on the WS. (Permit No. 2971, 1959 - Sartain). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.55)].
FS Date: 5/1/2017 10:06:47 AM

Photo 2 of 3 : UCIP_SP_2018_51746_47322.jpg

Waterside view: concrete surge box

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**12.56**	Rating **	U	Issue No.	**173 (cont)**
LM End	**12.56**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.294449°	39.294449°
				-122.013871°	-122.013871°
DWR ID					

Comment Code

Inspector Comment

FS_ID:51746
DS_ID:17367
EP_NO: 2971
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Sink hole behind the WS surge box got a lot bigger after the high water event of Jan/Feb 2017. Pipe also had a leak during that time buy not sure if it was due to the sink hole or a faulty slide gate. (DWR Sutter Yard- AFreitag)10/31/2016 No repairs have been made here yet. SInkhole is stil lpresent at the WS surge box.(DWR Sutter Yard- AFreitag)6/6/2016 Pumps were connnected to intake pipes and pumping into the WS surge box. The deep sink hole above the surge box measures to be about 6'6" deep from the toe road surface and it appeared to be wet in the bottom indicating the cracks in the concrete may be letting water seep through and wash out the sediment behind the wall. The surge box was full of water so could not observe the sediment build up in the bottom of the box. (DWR Sutter Yard - afreitag)4/14/2016 Deep sink hole above surge box on WS, possibly caused by burrowing, possibly creating conduit for seepage into surge box, which may explain presence of water in box. Recommend pipe be video inspected. Recommend taking another photo in summer to observe possible sediment buildup in box. (DWR UCIP - kfazel)4/2/2015 Pipe has small leak during times of high water. Not sure of the cause. Pumps taken out from the pipe (may be for repairs). Only control board found. LS wing wall minor damage. (DWR Sutter Yard - afreitag)7/2/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/19/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/23/2013 Pump motors attatched to pipes and running. Think pumps were disconnected during last inspection to keep motors above water for high water season. (DWR Sutter Yard - afreitag)12/11/2012 Pumps taken out from the pipe (may be for repairs). Only control board found. LS wing wall minor damage. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 20 feet below the crown. Concrete headwall on the landside (LS) with meter. Slide gate on the waterside (WS) end. Two slant pumps on the WS bank discharging into a concrete distribution box at the WS toe. Switch panel on the WS. (Permit No. 2971, 1959 - Sartain). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.55)].
FS Date: 5/1/2017 10:06:47 AM

Photo 3 of 3 : UCIP_SP_2018_51746_47321.jpg

Waterside view: slide gate in concrete surge box

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**12.70**	Rating **	M	Issue No.	**114**
LM End	**12.70**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.296433 °	39.296433 °
				-122.014347 °	-122.014347 °
DWR ID	DWR_ST0003_01_s _ 2018_114				

Comment Code

PR : Prunings

Inspector Comment

Remove the prunings from the landside toe.

Photo 1 of 1 : SP_2018_ST0003_264_114_20180430_00195.jpg

View of the prunings along the landside toe.

LM Start	**12.74**	Rating **	M	Issue No.	**174**
LM End	**12.74**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.296965 °	39.296965 °
				-122.014266 °	-122.014266 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51747
DS_ID:17368
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- AFreitag)6/14/2016 Pipe was internaly cleaned and camera inspected on 11/5/2015 by Nor-Cal Pipeline Services. Pipe length is 86.7ft long. The is a possible sag in the pipe between the WS riser and LS end as we could not get all the water to drain or be sucked out after the cleaning was done. Internal inspection showed signs of some rusting but no visible holes or other deterioration were found. After the inspection pipe ends were capped and reburied. 4/14/2016 Same as last inspection. Heavy vegetation along WS slope, especially below WS berm, limits visibility.4/2/2015 WS and LS pipe ends have been dug up in preparation for internal camera inspections. Only CMP riser found.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 12-inch drainage pipe of an unknown material through the levee, 14 feet below the crown, not found in 2016. Slide gate in a corrugated metal pipe riser (CMP) on the waterside (WS) slope, found in 2016. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.73)].
FS Date: 5/1/2017 10:19:49 AM

Photo 1 of 3 : UCIP_SP_2018_51747_75075.jpg

View of landside from crown.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**12.74**	Rating **	M	Issue No.	**174 (cont)**
LM End	**12.74**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.296965 °	39.296965 °
				-122.014266 °	-122.014266 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51747
DS_ID:17368
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- AFreitag)6/14/2016 Pipe was internaly cleaned and camera inspected on 11/5/2015 by Nor-Cal Pipeline Services. Pipe length is 86.7ft long. The is a possible sag in the pipe between the WS riser and LS end as we could not get all the water to drain or be sucked out after the cleaning was done. Internal inspection showed signs of some rusting but no visible holes or other deterioration were found. After the inspection pipe ends were capped and reburied. 4/14/2016 Same as last inspection. Heavy vegetation along WS slope, especially below WS berm, limits visibility.4/2/2015 WS and LS pipe ends have been dug up in preparation for internal camera inspections. Only CMP riser found.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 12-inch drainage pipe of an unknown material through the levee, 14 feet below the crown, not found in 2016. Slide gate in a corrugated metal pipe riser (CMP) on the waterside (WS) slope, found in 2016. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.73)].
FS Date: 5/1/2017 10:19:49 AM

Photo 2 of 3 : UCIP_SP_2018_51747_75076.jpg

WS view: 12-inch slide gate inside CMP riser on WS slope.

LM Start	**12.74**	Rating **	M	Issue No.	**174 (cont)**
LM End	**12.74**	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_51747_75077.jpg

WS: slide gate inside CMP riser.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**12.85**	Rating **	M	Issue No.	**76**
LM End	**12.85**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.298582 °	39.298582 °
				-122.014105 °	-122.014105 °
DWR ID	DWR_ST0003_01_f _ 2016_76				

Comment Code

EQ : Equipment

Inspector Comment

Photo 1 of 1 : SP_2018_ST0003_264_76_20180305_00019.jpg

View of the ag equipment along the landside toe.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**12.96**	Rating **	U	Issue No.	**175**
LM End	**12.96**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.300140 °	39.300140 °
				-122.013599 °	-122.013599 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51748
DS_ID:17369
EP_NO: 9510
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Erosion hole at WS surge box has gotten worse after the Jan/Feb 2017 high water event. Pipe also leaked which is believed to be casued by the screwgate not fully closing. (DWR Sutter Yard- AFreitag)10/31/2016 No repairs have been made here yet. Bad erosion stil present at the WS toe distridution box.(DWR Sutter Yard- AFreitag)6/3/2016 Bad erosion stil present all around the WS surge box. Pipes were flowing water at the time of inspection and the bottom of the erosion hole was wet and had standing water in it indicating a leak coming from the surge box. (DWR Sutter Yard - afreitag)4/14/2016 Heavy scour still present around surge box on WS exposing pipe. Levee caved in and severly damaged around surge box. Erosion around CMP riser on WS cited previously not found. (DWR UCIP - kfazel)4/2/2015 Pipe leaks during high water. It is supected that the screw gate does not fully close and may need to be cleaned to allow it to close fully. (DWR Sutter Yard - afreitag)7/2/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/19/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/23/2013 Water was flowing from the WS to LS ditch. Not sure where water flow was originating. All erosion problems are still present. (DWR Sutter Yard - afreitag)12/10/2016 Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 18 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete box on the WS. Pump mounted on the WS bank, not found in 2016. (Automatic Board Order (ABO) issued as Permit No. 9510, 1974 - Forry). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.95)].
FS Date: 5/1/2017 10:21:15 AM

Photo 1 of 3 : UCIP_SP_2018_51748_47336.jpg

Waterside view: CMP riser on levee slope.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**12.96**	Rating **	U	Issue No.	**175 (cont)**
LM End	**12.96**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.300140 °	39.300140 °
				-122.013599 °	-122.013599 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51748
DS_ID:17369
EP_NO: 9510
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Erosion hole at WS surge box has gotten worse after the Jan/Feb 2017 high water event. Pipe also leaked which is believed to be casued by the screwgate not fully closing. (DWR Sutter Yard- AFreitag)10/31/2016 No repairs have been made here yet. Bad erosion stil present at the WS toe distridution box.(DWR Sutter Yard- AFreitag)6/3/2016 Bad erosion stil present all around the WS surge box. Pipes were flowing water at the time of inspection and the bottom of the erosion hole was wet and had standing water in it indicating a leak coming from the surge box. (DWR Sutter Yard - afreitag)4/14/2016 Heavy scour still present around surge box on WS exposing pipe. Levee caved in and severly damaged around surge box. Erosion around CMP riser on WS cited previously not found. (DWR UCIP - kfazel)4/2/2015 Pipe leaks during high water. It is supected that the screw gate does not fully close and may need to be cleaned to allow it to close fully. (DWR Sutter Yard - afreitag)7/2/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/19/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/23/2013 Water was flowing from the WS to LS ditch. Not sure where water flow was originating. All erosion problems are still present. (DWR Sutter Yard - afreitag)12/10/2016 Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 18 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete box on the WS. Pump mounted on the WS bank, not found in 2016. (Automatic Board Order (ABO) issued as Permit No. 9510, 1974 - Forry). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.95)].
FS Date: 5/1/2017 10:21:15 AM

Photo 2 of 3 : UCIP_SP_2018_51748_47334.jpg

Waterside view: overview of concrete surge box

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**12.96**	Rating **	U	Issue No.	**175 (cont)**
LM End	**12.96**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.300140 °	39.300140 °
				-122.013599 °	-122.013599 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51748
DS_ID:17369
EP_NO: 9510
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Erosion hole at WS surge box has gotten worse after the Jan/Feb 2017 high water event. Pipe also leaked which is believed to be casued by the screwgate not fully closing. (DWR Sutter Yard- AFreitag)10/31/2016 No repairs have been made here yet. Bad erosion stil present at the WS toe distridution box.(DWR Sutter Yard- AFreitag)6/3/2016 Bad erosion stil present all around the WS surge box. Pipes were flowing water at the time of inspection and the bottom of the erosion hole was wet and had standing water in it indicating a leak coming from the surge box. (DWR Sutter Yard - afreitag)4/14/2016 Heavy scour still present around surge box on WS exposing pipe. Levee caved in and severly damaged around surge box. Erosion around CMP riser on WS cited previously not found. (DWR UCIP - kfazel)4/2/2015 Pipe leaks during high water. It is supected that the screw gate does not fully close and may need to be cleaned to allow it to close fully. (DWR Sutter Yard - afreitag)7/2/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/19/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/23/2013 Water was flowing from the WS to LS ditch. Not sure where water flow was originating. All erosion problems are still present. (DWR Sutter Yard - afreitag)12/10/2016 Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 18 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete box on the WS. Pump mounted on the WS bank, not found in 2016. (Automatic Board Order (ABO) issued as Permit No. 9510, 1974 - Forry). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.95)].
FS Date: 5/1/2017 10:21:15 AM

Photo 3 of 3 : UCIP_SP_2018_51748_47333.jpg

Waterside view: concrete surge box

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**13.38**	Rating **	M	Issue No.	**176**
LM End	**13.38**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.306065 °	39.306065 °
				-122.013112 °	-122.013112 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51749
DS_ID:17340
EP_NO: 9511
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. A oak tree has fallen down onto the WS pipe end. It does not appear to have damaged the pipe but it will need to be better inspected after the tree has been cleared away. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/14/2016 Pipe was internally cleaned and camera inspected on 11/6/2015 by Nor-Cal Pipeline Services. The 48" cmp pipe section that runs through the levee was deemed to be in good condition. After the LS levee toe the pipe changes to a 48" concrete box culvert for under the roadway and that showed signs of some cracking. After the inspection the WS end was capped to keep sediment out until further abandonment can be achieved.4/16/2016 A wooden board has been placed on WS outlet of pipe to prevent sediment from entering pipe. This is a temporary repair measure by Sutter Yard until pipe can be grouted. Need to contact owner to ensure pipe's proper abandonment. Blockage of pipe outlet by wooden board or sediment will pose a hazard during high water. Pipe owner unclear, as landowner differs on LS and WS.4/2/2015 Pipe has been selected for internal camera inspection.Outlet pipe silted on WS. Inlet structure damaged on LS. Not properly abandoned.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 48-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Landside (LS) end of pipe on east side of River Road. Pipe is not in use but is operable. (48-inch pipe [HLM 13.37] authorized under Permit No. 9511, 1974 - Moresco). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.37)].
FS Date: 5/1/2017 10:27:34 AM

Photo 1 of 3 : UCIP_SP_2018_51749_47343.jpg

Waterside view: CMP riser with slide gate

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**13.38**	Rating **	M	Issue No.	**176 (cont)**
LM End	**13.38**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.306065 °	39.306065 °
				-122.013112 °	-122.013112 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51749
DS_ID:17340
EP_NO: 9511
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. A oak tree has fallen down onto the WS pipe end. It does not appear to have damaged the pipe but it will need to be better inspected after the tree has been cleared away. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/14/2016 Pipe was internally cleaned and camera inspected on 11/6/2015 by Nor-Cal Pipeline Services. The 48" cmp pipe section that runs through the levee was deemed to be in good condition. After the LS levee toe the pipe changes to a 48" concrete box culvert for under the roadway and that showed signs of some cracking. After the inspection the WS end was capped to keep sediment out until further abandonment can be achieved.4/16/2016 A wooden board has been placed on WS outlet of pipe to prevent sediment from entering pipe. This is a temporary repair measure by Sutter Yard until pipe can be grouted. Need to contact owner to ensure pipe's proper abandonment. Blockage of pipe outlet by wooden board or sediment will pose a hazard during high water. Pipe owner unclear, as landowner differs on LS and WS.4/2/2015 Pipe has been selected for internal camera inspection.Outlet pipe silted on WS. Inlet structure damaged on LS. Not properly abandoned.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 48-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Landside (LS) end of pipe on east side of River Road. Pipe is not in use but is operable. (48-inch pipe [HLM 13.37] authorized under Permit No. 9511, 1974 - Moresco). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.37)].
FS Date: 5/1/2017 10:27:34 AM

Photo 2 of 3 : UCIP_SP_2018_51749_47342.jpg

Waterside view: overview of CMP riser and outlet pipe

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**13.38**	Rating **	M	Issue No.	**176 (cont)**
LM End	**13.38**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.306065 °	39.306065 °
				-122.013112 °	-122.013112 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51749
DS_ID:17340
EP_NO: 9511
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. A oak tree has fallen down onto the WS pipe end. It does not appear to have damaged the pipe but it will need to be better inspected after the tree has been cleared away. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/14/2016 Pipe was internally cleaned and camera inspected on 11/6/2015 by Nor-Cal Pipeline Services. The 48" cmp pipe section that runs through the levee was deemed to be in good condition. After the LS levee toe the pipe changes to a 48" concrete box culvert for under the roadway and that showed signs of some cracking. After the inspection the WS end was capped to keep sediment out until further abandonment can be achieved.4/16/2016 A wooden board has been placed on WS outlet of pipe to prevent sediment from entering pipe. This is a temporary repair measure by Sutter Yard until pipe can be grouted. Need to contact owner to ensure pipe's proper abandonment. Blockage of pipe outlet by wooden board or sediment will pose a hazard during high water. Pipe owner unclear, as landowner differs on LS and WS.4/2/2015 Pipe has been selected for internal camera inspection.Outlet pipe silted on WS. Inlet structure damaged on LS. Not properly abandoned.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 48-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Landside (LS) end of pipe on east side of River Road. Pipe is not in use but is operable. (48-inch pipe [HLM 13.37] authorized under Permit No. 9511, 1974 - Moresco). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.37)].
FS Date: 5/1/2017 10:27:34 AM

Photo 3 of 3 : UCIP_SP_2018_51749_47341.jpg

Waterside view: silted concrete lined CMP outlet pipe

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**13.43**	Rating **	M	Issue No.	**75**
LM End	**13.43**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.306919°	39.306919°
				-122.013076°	-122.013076°
DWR ID	DWR_ST0003_01_f _ 2016_75				

Comment Code

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Photo 1 of 1 : SP_2018_ST0003_264_75_20180305_00018.jpg

View of the slope instability along the waterside slope.

LM Start	**13.93**	Rating **	M	Issue No.	**177**
LM End	**13.93**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.314025°	39.314025°
				-122.012959°	-122.012959°
DWR ID					

Comment Code

Inspector Comment

FS_ID:51750
DS_ID:17361
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. WS pipe end buried. (DWR Sutter Yard- AFreitag)6/14/2016 WS pipe end was dug up for a internal camera inspection. The WS slide gate was sealed shut and would not open so the inspection was only done form the WS pipe end to the WS slide gate (33.1ft). The pipe showed some signs of heavy rusting but no visible holes or other signs of deterioration were found. After the inspection the WS pipe end was capped and reburied until further abandonment can be achieved.4/2/2015 Only CMP riser on WS. Pipe has been selected for internal camera inspection. Only CMP riser found on WS.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 16 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) end, found in 2015. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.92)].
FS Date: 5/1/2017 10:32:09 AM

Photo 1 of 3 : UCIP_SP_2018_51750_47349.jpg

Waterside view: CMP riser with slide gate

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**13.93**	Rating **	M	Issue No.	**177 (cont)**
LM End	**13.93**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.314025 °	39.314025 °
				-122.012959 °	-122.012959 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51750
DS_ID:17361
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. WS pipe end buried. (DWR Sutter Yard- AFreitag)6/14/2016 WS pipe end was dug up for a internal camera inspection. The WS slide gate was sealed shut and would not open so the inspection was only done form the WS pipe end to the WS slide gate (33.1ft). The pipe showed some signs of heavy rusting but no visible holes or other signs of deterioration were found. After the inspection the WS pipe end was capped and reburied until further abandonment can be achieved.4/2/2015 Only CMP riser on WS. Pipe has been selected for internal camera inspection. Only CMP riser found on WS.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 16 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) end, found in 2015. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.92)].
FS Date: 5/1/2017 10:32:09 AM

Photo 2 of 3 : UCIP_SP_2018_51750_47348.jpg

Waterside view: inside CMP riser

LM Start	**13.93**	Rating **	M	Issue No.	**177 (cont)**
LM End	**13.93**	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_51750_47347.jpg

Landside view: overview- across the county road

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**14.32**	Rating **	C	Issue No.	**73**
LM End	**14.32**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.318793 °	39.318793 °
				-122.015832 °	-122.015832 °
DWR ID	DWR_ST0003_01_f _ 2016_73				

Comment Code

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

The tree limb was removed from the landside slope.

No Photos

LM Start	**14.50**	Rating **	A/W	Issue No.	**178**
LM End	**14.50**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.321429 °	39.321429 °
				-122.016079 °	-122.016079 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51752
DS_ID:17330
EP_NO: 9508
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. WS pipe end buried. (DWR Sutter Yard- AFreitag)6/14/2016 Pipe was internally cleaned and camera inspected on 11/17/2015 by Nor-Cal Pipeline Services. Pipe section through levee is 86ft long and showed some signs of rusting but no visible holes or other deterioration was found. After the inspection the WS end was capped and reburied until further abandonment can be achieved.4/14/2016 Concrete box on LS cleared of sediment.4/2/2015 Same as last inspection. Concrete box on LS silted in. If abandoned it should be done so properly.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). (24-inch pipe [HLM 14.5] authorized under Automatic Board Order (ABO) issued as Permit No. 9508, 1974 - Jones). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 14.5)].
FS Date: 5/1/2017 10:34:48 AM

Photo 1 of 3 : UCIP_SP_2018_51752_47356.jpg

Waterside view: CMP riser with slide gate

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**14.50**	Rating **	A/W	Issue No.	**178 (cont)**
LM End	**14.50**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.321429 °	39.321429 °
				-122.016079 °	-122.016079 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51752
DS_ID:17330
EP_NO: 9508
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. WS pipe end buried. (DWR Sutter Yard- AFreitag)6/14/2016 Pipe was internally cleaned and camera inspected on 11/17/2015 by Nor-Cal Pipeline Services. Pipe section through levee is 86ft long and showed some signs of rusting but no visible holes or other deterioration was found. After the inspection the WS end was capped and reburied until further abandonment can be achieved.4/14/2016 Concrete box on LS cleared of sediment.4/2/2015 Same as last inspection. Concrete box on LS silted in. If abandoned it should be done so properly.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). (24-inch pipe [HLM 14.5] authorized under Automatic Board Order (ABO) issued as Permit No. 9508, 1974 - Jones). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 14.5)].
FS Date: 5/1/2017 10:34:48 AM

Photo 2 of 3 : UCIP_SP_2018_51752_47361.jpg

Waterside view: levee mile marker

LM Start	**14.50**	Rating **	A/W	Issue No.	**178 (cont)**
LM End	**14.50**	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2018_51752_47360.jpg

Landside view: overview of distribution box

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**14.56**	Rating **	M	Issue No.	**179**
LM End	**14.56**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.322279 °	39.322279 °
				-122.015972 °	-122.015972 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51753
DS_ID:17331
EP_NO: 1833
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 No leaky pipe marker present during this inspection but it appears that nothing has changed or was repaired since it was labled leaky in 2015. (DWR Sutter Yard-AFreitag)10/31/2016 Leaky pipe marker was not present at inspection but nothing appears to have changed with this crossing. (DWR Sutter Yard- AFreitag)6/15/2016 No changes made to this crossing. Leaky pipe marker still present.4/14/2016 Levee slightly caved in one side of surge box on WS4/2/2015 Leaks during high water. Distribution box plugged with cement concrete on LS. Other concrete box plugged with concrete on WS. New steel pipe (about 16 inch diameter) sleeved through CMP pipe. It is visible inside CMP riser.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 42-inch corrugated metal irrigation pipe through the levee, 14.2 feet below the crown. 16-inch (approximate) pipe has been sleeved through the 42-inch corrugated metal pipe (CMP), with annular space pressure grouted. Pump structure on the waterside (WS) bank, not found in 2016. Concrete surge box at the WS toe. Slide gate in a CMP riser on the WS slope. Concrete distribution box on the landside (LS) across River Road. Phone number provided is 916-802-8293. (Permit No. 1833, 1953 - Carter). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 14.55)].
FS Date: 5/1/2017 10:35:31 AM

Photo 1 of 3 : UCIP_SP_2018_51753_47363.jpg

Waterside view: CMP riser with slide gate and surge box

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**14.56**	Rating **	M	Issue No.	**179 (cont)**
LM End	**14.56**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.322279 °	39.322279 °
				-122.015972 °	-122.015972 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51753
DS_ID:17331
EP_NO: 1833
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 No leaky pipe marker present during this inspection but it appears that nothing has changed or was repaired since it was labled leaky in 2015. (DWR Sutter Yard-AFreitag)10/31/2016 Leaky pipe marker was not present at inspection but nothing appears to have changed with this crossing. (DWR Sutter Yard- AFreitag)6/15/2016 No changes made to this crossing. Leaky pipe marker still present.4/14/2016 Levee slightly caved in one side of surge box on WS4/2/2015 Leaks during high water. Distribution box plugged with cement concrete on LS. Other concrete box plugged with concrete on WS. New steel pipe (about 16 inch diameter) sleeved through CMP pipe. It is visible inside CMP riser.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 42-inch corrugated metal irrigation pipe through the levee, 14.2 feet below the crown. 16-inch (approximate) pipe has been sleeved through the 42-inch corrugated metal pipe (CMP), with annular space pressure grouted. Pump structure on the waterside (WS) bank, not found in 2016. Concrete surge box at the WS toe. Slide gate in a CMP riser on the WS slope. Concrete distribution box on the landside (LS) across River Road. Phone number provided is 916-802-8293. (Permit No. 1833, 1953 - Carter). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 14.55)].
FS Date: 5/1/2017 10:35:31 AM

Photo 2 of 3 : UCIP_SP_2018_51753_47362.jpg

Waterside view: new steel pipe sleeved through CMP pipe.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**14.56**	Rating **	M	Issue No.	**179 (cont)**
LM End	**14.56**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.322279 °	39.322279 °
				-122.015972 °	-122.015972 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51753
DS_ID:17331
EP_NO: 1833
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 No leaky pipe marker present during this inspection but it appears that nothing has changed or was repaired since it was labled leaky in 2015. (DWR Sutter Yard-AFreitag)10/31/2016 Leaky pipe marker was not present at inspection but nothing appears to have changed with this crossing. (DWR Sutter Yard- AFreitag)6/15/2016 No changes made to this crossing. Leaky pipe marker still present.4/14/2016 Levee slightly caved in one side of surge box on WS4/2/2015 Leaks during high water. Distribution box plugged with cement concrete on LS. Other concrete box plugged with concrete on WS. New steel pipe (about 16 inch diameter) sleeved through CMP pipe. It is visible inside CMP riser.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 42-inch corrugated metal irrigation pipe through the levee, 14.2 feet below the crown. 16-inch (approximate) pipe has been sleeved through the 42-inch corrugated metal pipe (CMP), with annular space pressure grouted. Pump structure on the waterside (WS) bank, not found in 2016. Concrete surge box at the WS toe. Slide gate in a CMP riser on the WS slope. Concrete distribution box on the landside (LS) across River Road. Phone number provided is 916-802-8293. (Permit No. 1833, 1953 - Carter). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 14.55)].
FS Date: 5/1/2017 10:35:31 AM

Photo 3 of 3 : UCIP_SP_2018_51753_47366.jpg

Waterside view: plugged concrete surge box

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**15.17**	Rating **	M	Issue No.	**71**
LM End	**15.48**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.330578 °	39.333842 °
				-122.018485 °	-122.022225 °
DWR ID	DWR_ST0003_01_f _ 2016_71				

Comment Code

DT : Ditch

Inspector Comment

Photo 1 of 1 : SP_2018_ST0003_264_71_20180305_00016.jpg

View of a ditch along the landside toe.

LM Start	**15.48**	Rating **	M	Issue No.	**180**
LM End	**15.48**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.333868 °	39.333868 °
				-122.022243 °	-122.022243 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51755
DS_ID:17333
EP_NO: 9506
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Both pipe ends were underwater during site visit but it appears to be in good condition. (DWR Sutter Yard-AFreitag)10/31/2016 Minor erosion caused by rain runoff starting at the top of the WS headwall. REst of crossing appears in good condition. (DWR Sutter Yard- AFreitag)6/15/2016 Both pipe ends were underwater but appear to be in good condition.4/2/2015 Pipe and ditches were full of water. Everything seemed to be in good shape.Water full on inlet and outlet of the structure.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch irrigation pipe of an unknown material through the levee, 16.5 feet below the crown. Pump in the floodway. Irrigation transfer ditch on the waterside (WS) to concrete surge box at the WS toe. Slide gates in a corrugated metal pipe (CMP) riser on the WS slope. Discharges into a concrete distribution box at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9506, 1974 - Carter). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 15.46)].
FS Date: 5/1/2017 10:38:21 AM

Photo 1 of 3 : UCIP_SP_2018_51755_47371.jpg

Crown view: overview (both sides of the levee)

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**15.48**	Rating **	M	Issue No.	**180 (cont)**
LM End	**15.48**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.333868 °	39.333868 °
				-122.022243 °	-122.022243 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51755
DS_ID:17333
EP_NO: 9506
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Both pipe ends were underwater during site visit but it appears to be in good condition. (DWR Sutter Yard-AFreitag)10/31/2016 Minor erosion caused by rain runoff starting at the top of the WS headwall. REst of crossing appears in good condition. (DWR Sutter Yard- AFreitag)6/15/2016 Both pipe ends were underwater but appear to be in good condition.4/2/2015 Pipe and ditches were full of water. Everything seemed to be in good shape.Water full on inlet and outlet of the structure.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch irrigation pipe of an unknown material through the levee, 16.5 feet below the crown. Pump in the floodway. Irrigation transfer ditch on the waterside (WS) to concrete surge box at the WS toe. Slide gates in a corrugated metal pipe (CMP) riser on the WS slope. Discharges into a concrete distribution box at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9506, 1974 - Carter). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 15.46)].
FS Date: 5/1/2017 10:38:21 AM

Photo 2 of 3 : UCIP_SP_2018_51755_47370.jpg

Waterside view: CMP riser, inlet box and water transfer ditch

LM Start	**15.48**	Rating **	M	Issue No.	**180 (cont)**
LM End	**15.48**	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_51755_47369.jpg

Waterside view: inside CMP riser

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**15.81**	Rating **	M	Issue No.	**181**
LM End	**15.81**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.338029 °	39.338029 °
				-122.022711 °	-122.022711 °
DWR ID					

No Photos

Comment Code

Inspector Comment

FS_ID:51756
DS_ID:17334
EP_NO: 2599
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 4/20/2017 Unable to locate. (DWR Sutter Yard-AFreitag)10/31/2016 Unable to locate. (DWR Sutter Yard-AFreitag)6/15/2016 Unable to locate.4/2/2015 Unable to locate.
Need to contact owner to determine status and location of this crossing.

7/2/2014 Unable to locate.12/19/2013 Unable to locate.7/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 2.375-inch unwrapped steel high pressure gas pipeline through the levee, 2.6 feet below the crown. (Permit No. 2599, 1957 - Honolulu Oil Corporation). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 5/1/2017 10:39:25 AM

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**16.12**	Rating **	M	Issue No.	**182**
LM End	**16.12**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.341653 °	39.341653 °
				-122.023908 °	-122.023908 °
DWR ID					

No Photos

Comment Code

Inspector Comment

FS_ID:51757
DS_ID:17335
EP_NO: 2651
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 4/20/2017 Unable to locate. (DWR Sutter Yard-AFreitag)10/31/2016 Unable to locate. (DWR Sutter Yard-AFreitag)6/15/2016 Unable to locate.4/2/2015 Unable to locate.
Need to contact owner to determine status and location of this crossing.

7/2/2014 Unable to locate.12/19/2013 Unable to locate7/23/2013
Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 2.375-inch unwrapped steel high pressure gas pipeline through the levee, 2.6 feet below the crown. (Permit No. 2651, 1957 - Occidental Petroleum Corporation). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 5/1/2017 10:39:59 AM

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**16.21**	Rating **	M	Issue No.	**183**
LM End	**16.21**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.342905 °	39.342905 °
				-122.024215 °	-122.024215 °
DWR ID					

No Photos

Comment Code

Inspector Comment

FS_ID:51758
DS_ID:17336
EP_NO: 2651
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 4/20/2017 Unable to locate. (DWR Sutter Yard-AFreitag)10/31/2016 Unable to locate. (DWR Sutter Yard-AFreitag)6/15/2016 Unable to locate.4/2/2015 Unable to locate. Need to contact owner to determine status and location of crossing.7/2/2014 Unable to locate.12/19/2013 Unable to locate7/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 2.375-inch unwrapped steel high pressure gas pipeline through the levee, 2.5 feet below the crown. (Permit No. 2651, 1957 - Occidental Petroleum Corporation). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 5/1/2017 10:40:37 AM

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**16.30**	Rating **	M	Issue No.	**184**
LM End	**16.30**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.344177 °	39.344177 °
				-122.024300 °	-122.024300 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51759
DS_ID:17337
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)11/1/2016 Abandoned. Pipe is buried and not visible but a white marker on WS shoulder shows its location. (DWR Sutter Yard- AFreitag)6/15/2016 Pipe was dug up and internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. Pipe section through the levee is 88ft long and showed signs of rusting but no holes or other deterioration was found. The WS flap gate was broken during excavation but doesnt pose an issue as the pipe was capped and reburied until further abandonment can be achieved. Unfortunately the pipe was not photographed when exposed.4/14/2016 Same as last inspection.4/2/2015 Unable to locate. Pipe has been selected to be dug up and internally camera inspected.7/2/2014 Unable to locate.12/19/2013 Unable to locate7/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 42-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Metal flap gate on the waterside (WS) silted over. Brick "U" shaped headwall on the WS toe. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 16.29)].
FS Date: 5/1/2017 10:41:07 AM

Photo 1 of 3 : UCIP_SP_2018_51759_75096.jpg

View from crown down WS slope at location of crossing.

LM Start	**16.30**	Rating **	M	Issue No.	**184 (cont)**
LM End	**16.30**	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_51759_75097.jpg

View of LS from crown at location of crossing.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**16.30**	Rating **	M	Issue No.	**184 (cont)**
LM End	**16.30**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.344177 °	39.344177 °
				-122.024300 °	-122.024300 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51759
DS_ID:17337
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)11/1/2016 Abandoned. Pipe is buried and not visible but a white marker on WS shoulder shows its location. (DWR Sutter Yard- AFreitag)6/15/2016 Pipe was dug up and internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. Pipe section through the levee is 88ft long and showed signs of rusting but no holes or other deterioration was found. The WS flap gate was broken during excavation but doesnt pose an issue as the pipe was capped and reburied until further abandonment can be achieved. Unfortunately the pipe was not photographed when exposed.4/14/2016 Same as last inspection.4/2/2015 Unable to locate. Pipe has been selected to be dug up and internally camera inspected.7/2/2014 Unable to locate.12/19/2013 Unable to locate7/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 42-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Metal flap gate on the waterside (WS) silted over. Brick "U" shaped headwall on the WS toe. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 16.29)].
FS Date: 5/1/2017 10:41:07 AM

Photo 3 of 3 : UCIP_SP_2018_51759_75098.jpg

Looking up WS slope: bare spot where pipe was previously excavated, video inspected, and backfilled.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**16.43**	Rating **	M	Issue No.	**185**
LM End	**16.43**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.345635°	39.345635°
				-122.022915°	-122.022915°
DWR ID					

Comment Code

Inspector Comment

FS_ID:51760
DS_ID:17349
EP_NO: 9500
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/1/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/15/2016 Abandoned- WS slide gate and LS distribution box are silted over.4/16/2016 Same as last inspection. Appears abandoned and should be done so properly.4/2/2015 WS slide gate and LS distribution box are still silted over.Seems abandoned as slide gate and distribution box silted.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 48-inch corrugated metal irrigation and drainage pipe through the levee, 17 feet below the crown, not found in 2016. Slide gate on the waterside (WS), found in 2016. 8-inch steel pipe sleeved through the 48-inch pipe during the summer months, not found in 2016. Discharges into a concrete distribution box on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9500, 1974 - Zumwalt Orchards, Inc.). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 16.42)].
FS Date: 5/1/2017 10:42:09 AM

Photo 1 of 3 : UCIP_SP_2018_51760_47380.jpg

Waterside view: overview of slide gate

LM Start	**16.43**	Rating **	M	Issue No.	**185 (cont)**
LM End	**16.43**	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_51760_47379.jpg

Waterside view: slide gate on steel structure

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**16.43**	Rating **	M	Issue No.	**185 (cont)**
LM End	**16.43**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.345635 °	39.345635 °
				-122.022915 °	-122.022915 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51760
DS_ID:17349
EP_NO: 9500
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/1/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/15/2016 Abandoned- WS slide gate and LS distribution box are silted over.4/16/2016 Same as last inspection. Appears abandoned and should be done so properly.4/2/2015 WS slide gate and LS distribution box are still silted over.Seems abandoned as slide gate and distribution box silted.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 48-inch corrugated metal irrigation and drainage pipe through the levee, 17 feet below the crown, not found in 2016. Slide gate on the waterside (WS), found in 2016. 8-inch steel pipe sleeved through the 48-inch pipe during the summer months, not found in 2016. Discharges into a concrete distribution box on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9500, 1974 - Zumwalt Orchards, Inc.). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 16.42)].
FS Date: 5/1/2017 10:42:09 AM

Photo 3 of 3 : UCIP_SP_2018_51760_47378.jpg

Waterside view: silt and debri infront of slide gate

LM Start	**16.43**	Rating **	M	Issue No.	**70**
LM End	**16.43**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.345695 °	39.345695 °
				-122.022820 °	-122.022820 °
DWR ID	DWR_ST0003_01_f _ 2016_70				

Comment Code

A1 : Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**16.93**	Rating **	M	Issue No.	**69**
LM End	**16.93**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.347263°	39.347263°
				-122.015608°	-122.015608°
DWR ID	DWR_ST0003_01_f _ 2016_69				

Comment Code

PR : Prunings

Inspector Comment

Remove prunings from the landside toe.

No Photos

LM Start	**16.96**	Rating **	M	Issue No.	**68**
LM End	**16.96**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.347312°	39.347312°
				-122.015137°	-122.015137°
DWR ID	DWR_ST0003_01_f _ 2016_68				

Comment Code

PR : Prunings

Inspector Comment

Remove prunings from the landside toe.

Photo 1 of 1 : SP_2018_ST0003_264_68_20180305_00015.jpg

View of the prunings along the landside toe.

LM Start	**17.42**	Rating **	M	Issue No.	**66**
LM End	**17.42**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.351322°	39.351322°
				-122.009348°	-122.009348°
DWR ID	DWR_ST0003_01_f _ 2016_66				

Comment Code

PR : Prunings

Inspector Comment

Remove prunings from the landside toe.

Photo 1 of 1 : SP_2018_ST0003_264_66_20180305_00014.jpg

View of the prunings along the landside toe.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**17.51**	Rating **	M	Issue No.	**65**
LM End	**17.51**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.352615°	39.352615°
				-122.009247°	-122.009247°
DWR ID	DWR_ST0003_01_f _ 2016_65				

Comment Code

PR : Prunings

Inspector Comment

Remove prunings from the landside toe.

Photo 1 of 1 : SP_2018_ST0003_264_65_20180305_00013.jpg

View of the prunings along the landside toe.

LM Start	**17.58**	Rating **	M	Issue No.	**186**
LM End	**17.58**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.353531°	39.353531°
				-122.009138°	-122.009138°
DWR ID					

Comment Code

Inspector Comment

FS_ID:51762
DS_ID:17329
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. Pipe had a small leak during high water and is believed to be caused by the screw gate not being fully closed before it was reburied after its internal inspection. (DWR Sutter Yard- AFreitag)11/1/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/15/2016 Pipe was dug up and internally cleaned and camera inspected on 11/18/2015 by Nor-Cal Pipeline Services. Pipe section through levee is about 93.8ft long. Inspection showed signs of rusting but no holes or other deterioration was found. WS end and slidegate were photographed, LS end was not. After the inspection pipe ends were capped and reburied until further abandonment can be achieved.4/2/2015 WS pipe end was dug up in preparation for internal camera inspection. Only steel slide gate structure found on waterside.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 15.8 feet below the crown. Slide gate on the waterside (WS) end. Both pipe ends are silted over. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 17.6)].
FS Date: 5/1/2017 10:45:36 AM

Photo 1 of 3 : UCIP_SP_2018_51762_47384.jpg

Landside view: overview. No pipe found.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**17.58**	Rating **	M	Issue No.	**186 (cont)**
LM End	**17.58**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.353531 °	39.353531 °
				-122.009138 °	-122.009138 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51762
DS_ID:17329
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. Pipe had a small leak during high water and is believed to be caused by the screw gate not being fully closed before it was reburied after its internal inspection. (DWR Sutter Yard- AFreitag)11/1/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/15/2016 Pipe was dug up and internally cleaned and camera inspected on 11/18/2015 by Nor-Cal Pipeline Services. Pipe section through levee is about 93.8ft long. Inspection showed signs of rusting but no holes or other deterioration was found. WS end and slidegate were photographed, LS end was not. After the inspection pipe ends were capped and reburied until further abandonment can be achieved.4/2/2015 WS pipe end was dug up in preparation for internal camera inspection. Only steel slide gate structure found on waterside.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 15.8 feet below the crown. Slide gate on the waterside (WS) end. Both pipe ends are silted over. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 17.6)].
FS Date: 5/1/2017 10:45:36 AM

Photo 2 of 3 : UCIP_SP_2018_51762_47386.jpg

Waterside view: slide gate steel structure

LM Start	**17.58**	Rating **	M	Issue No.	**186 (cont)**
LM End	**17.58**	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2018_51762_47385.jpg

Waterside view: burried slide gate

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**17.97**	Rating **	M	Issue No.	**63**
LM End	**17.97**	Issue Type +	En	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.358920 °	39.358920 °
				-122.007537 °	-122.007537 °
DWR ID	DWR_ST0003_01_f _ 2016_63				

Comment Code

EQ : Equipment

Inspector Comment

Photo 1 of 1 : SP_2018_ST0003_264_63_20180305_00012.jpg

View of the ag equipment along the landside toe.

LM Start	**18.07**	Rating **	M	Issue No.	**187**
LM End	**18.07**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359675 °	39.359675 °
				-122.005879 °	-122.005879 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51764
DS_ID:17342
EP_NO: 14217
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 4/20/2017 Unable to locate. (DWR Sutter Yard-AFreitag)11/1/2016 Unable to locate. (DWR Sutter Yard-AFreitag)6/3/2016 Unable to locate.4/2/2015 Unable to locate.Need to contact owner to determine status and location of this crossing. 7/2/2014 Unable to locate.12/19/2013 Unable to locate.7/24/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 1 of 2: 2-inch asphalt coated steel gas pipeline through the levee, 2 feet below the crown. (Permit No. 14217, 1985 - Jordan Oil and Gas Company). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 5/1/2017 10:47:34 AM

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**18.07**	Rating **	M	Issue No.	**188**
LM End	**18.07**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359675 °	39.359675 °
				-122.005879 °	-122.005879 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51765
DS_ID:17520
EP_NO: 14217
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 4/20/2017 Unable to locate. (DWR Sutter Yard-AFreitag)11/1/2016 Unable to locate. (DWR Sutter Yard-AFreitag)6/3/2016 Unable to locate.4/2/2015 Unable to locate. Need to contact owner to determine status and location of this crossing.7/2/2014 Unable to locate.12/19/2013 Unable to locate.7/24/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 2 of 2: 2-inch asphalt coated steel gas pipeline through the levee, 2 feet below the crown. (Permit No. 14217, 1985, - Jordan Oil and Gas Company). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 5/1/2017 10:48:10 AM

No Photos

LM Start	**18.12**	Rating **	M	Issue No.	**62**
LM End	**18.12**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.359957 °	39.359957 °
				-122.005063 °	-122.005063 °
DWR ID	DWR_ST0003_01_f _ 2016_62				

Comment Code

TR : Tree or limb

Inspector Comment

Fruit trees at the landside toe.

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**18.19**	Rating **	M	Issue No.	**189**
LM End	**18.19**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359983 °	39.359983 °
				-122.003732 °	-122.003732 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51766
DS_ID:17343
EP_NO: 9502
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/1/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/3/2016 Abandoned crossing.4/2/2015 Same as last inspection. Vertical pump on bank not found as bank is not accessible. An abandoned electrical switch found on waterside. Landside distribution box is filled with debris and soil. Crossing appears abandoned and should be verified as having been done so properly.

7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal irrigation pipe through the levee, 18 feet below the crown. Vertical pump on the waterside (WS) bank, not found in 2015. Slide gate in a concrete box on the WS toe. Pipe discharges into a concrete distribution box on the landside (LS) toe. Pole on the WS shoulder and an abandoned electrical switch found on the WS. (Automatic Board Order (ABO) issued as Permit No. 9502, 1974 - Coffman). (Additional Related Permit(s): Permit No. 11540, 1976 - Wilearlee Walnuts). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.22)].
FS Date: 5/1/2017 10:49:09 AM

Photo 1 of 3 : UCIP_SP_2018_51766_47394.jpg

Waterside view: overview of gate riser

LM Start	**18.19**	Rating **	M	Issue No.	**189 (cont)**
LM End	**18.19**	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_51766_47392.jpg

Waterside view: inside gate riser

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**18.19**	Rating **	M	Issue No.	**189 (cont)**
LM End	**18.19**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359983 °	39.359983 °
				-122.003732 °	-122.003732 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51766
DS_ID:17343
EP_NO: 9502
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/1/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/3/2016 Abandoned crossing.4/2/2015 Same as last inspection. Vertical pump on bank not found as bank is not accessible. An abandoned electrical switch found on waterside. Landside distribution box is filled with debris and soil. Crossing appears abandoned and should be verified as having been done so properly.

7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal irrigation pipe through the levee, 18 feet below the crown. Vertical pump on the waterside (WS) bank, not found in 2015. Slide gate in a concrete box on the WS toe. Pipe discharges into a concrete distribution box on the landside (LS) toe. Pole on the WS shoulder and an abandoned electrical switch found on the WS. (Automatic Board Order (ABO) issued as Permit No. 9502, 1974 - Coffman). (Additional Related Permit(s): Permit No. 11540, 1976 - Wilearlee Walnuts). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.22)].
FS Date: 5/1/2017 10:49:09 AM

Photo 3 of 3 : UCIP_SP_2018_51766_47391.jpg

Waterside view: concrete gate riser

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**18.20**	Rating **	M	Issue No.	**190**
LM End	**18.20**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359948 °	39.359948 °
				-122.003591 °	-122.003591 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51767
DS_ID:17344
EP_NO: 12930A
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 4/20/2017 Unable to locate. (DWR Sutter Yard-AFreitag)11/1/2016 Unable to locate. (DWR Sutter Yard-AFreitag)6/3/2016 Unable to locate.4/2/2015 Unable to locate. Need to contact owner to determine status and location of this crossing.7/2/2014 Unable to locate.12/19/2013 Unable to locate.7/24/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 3.5-inch asphalt coated steel gas pipeline through the levee, 2 feet below the crown. (Permit No. 12930-A, 1980 - Jordan Oil and Gas Co.). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 5/1/2017 10:50:09 AM

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**18.61**	Rating **	A/W	Issue No.	**191**
LM End	**18.61**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.362866 °	39.362866 °
				-121.997993 °	-121.997993 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51770
DS_ID:17345
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/20/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/1/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/16/2016 Pipe was internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. Pipe is 155ft in total length and the inpsection showed some minor rusting but no holes or other deformations were found. Pipe is still used by the landowner for irrigation and the sloughing near the WS end was repaired and rocked to prevent future slloughing or erosion.4/14/2016 Sloughing repaired by Sutter Yard with rock revetment.4/2/2015 Same as last inspection. Pipe has been selected for internal camera inspection.Sloughing at outlet and levee slope is damaged due to sloughing.7/2/2014 It is not an abandoned crossing. Sloughing at outlet and levee slope is damaged due to sloughing.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 20 feet below the crown. Slide gate at the waterside (WS) toe. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.65)].
FS Date: 5/1/2017 10:52:46 AM

Photo 1 of 3 : UCIP_SP_2018_51770_47399.jpg

Waterside view: overview of sliding gate structure

LM Start	**18.61**	Rating **	A/W	Issue No.	**191 (cont)**
LM End	**18.61**	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_51770_47398.jpg

Waterside view: outlet pipe with concrete headwall and floor appron.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**18.61**	Rating **	A/W	Issue No.	**191 (cont)**
LM End	**18.61**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.362866 °	39.362866 °
				-121.997993 °	-121.997993 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51770
DS_ID:17345
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/20/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/1/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/16/2016 Pipe was internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. Pipe is 155ft in total length and the inpsection showed some minor rusting but no holes or other deformations were found. Pipe is still used by the landowner for irrigation and the sloughing near the WS end was repaired and rocked to prevent future slloughing or erosion.4/14/2016 Sloughing repaired by Sutter Yard with rock revetment.4/2/2015 Same as last inspection. Pipe has been selected for internal camera inspection.Sloughing at outlet and levee slope is damaged due to sloughing.7/2/2014 It is not an abandoned crossing. Sloughing at outlet and levee slope is damaged due to sloughing.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 20 feet below the crown. Slide gate at the waterside (WS) toe. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.65)].
FS Date: 5/1/2017 10:52:46 AM

Photo 3 of 3 : UCIP_SP_2018_51770_47403.jpg

Waterside view: sloughing at outlet pipe

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**18.70**	Rating **	A/W	Issue No.	**192**
LM End	**18.70**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.364067 °	39.364067 °
				-121.997792 °	-121.997792 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51771
DS_ID:17346
EP_NO: 9503
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/20/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/1/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/16/2016 Pipe was internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. 129.5 ft (starting from the WS end) was inspected to get get us through the levee prism but the LS end was never found. Pipe showed no signs of rust or damage.4/14/2016 Inlet structure still filled with soil.4/2/2015 Same as last inspection. Pipe has been selected for internal camera inspection.According to local people, the crossing is functional. The gap between 8-inch and 24-inch pipes is grouted with cement. Inlet structure is filled with soil.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. 8-inch steel pipe sleeved through the 24-inch pipe. Annular space cement grouted. Slide gate at the waterside (WS) toe. Concrete inlet box on the landside (LS). (24-inch pipe [HLM 18.74] authorized under Automatic Board Order (ABO) issued as Permit No. 9503, 1974 - Baird). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.74)].
FS Date: 5/1/2017 10:53:44 AM

Photo 1 of 3 : UCIP_SP_2018_51771_47442.jpg

Waterside view: overview of slide gate structure

LM Start	**18.70**	Rating **	A/W	Issue No.	**192 (cont)**
LM End	**18.70**	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_51771_47441.jpg

Waterside view: 8-inch pipe inside 24-inch CMP

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**18.70**	Rating **	A/W	Issue No.	**192 (cont)**
LM End	**18.70**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.364067 °	39.364067 °
				-121.997792 °	-121.997792 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51771
DS_ID:17346
EP_NO: 9503
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/20/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/1/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/16/2016 Pipe was internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. 129.5 ft (starting from the WS end) was inspected to get get us through the levee prism but the LS end was never found. Pipe showed no signs of rust or damage.4/14/2016 Inlet structure still filled with soil.4/2/2015 Same as last inspection. Pipe has been selected for internal camera inspection.According to local people, the crossing is functional. The gap between 8-inch and 24-inch pipes is grouted with cement. Inlet structure is filled with soil.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. 8-inch steel pipe sleeved through the 24-inch pipe. Annular space cement grouted. Slide gate at the waterside (WS) toe. Concrete inlet box on the landside (LS). (24-inch pipe [HLM 18.74] authorized under Automatic Board Order (ABO) issued as Permit No. 9503, 1974 - Baird). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.74)].
FS Date: 5/1/2017 10:53:44 AM

Photo 3 of 3 : UCIP_SP_2018_51771_47440.jpg

Waterside view: 8-inch pipe and drain gate

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**19.19**	Rating **	A/W	Issue No.	**193**
LM End	**19.19**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.370031 °	39.370031 °
				-121.996458 °	-121.996458 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51773
DS_ID:17347
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- plugged. (DWR Sutter Yard-AFreitag)11/1/2016 Abandoned/plugged. (DWR Sutter Yard-AFreitag)6/16/2016 Internal camera inspection was done on 11/19/2015 by Nor-Cal Pipeline Servies. Pipe was inspected starting from the WS end and inspected upto the grout plug that is 13.7ft into the pipe. Pipe was then capped and reburied until further abandonment can be achieved.4/2/2015 WS end of pipe was dug up in preparation for internal camera inspection. Only steel slide gate structure found on WS.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 21.7 feet below the crown. Slide gate at the waterside (WS) toe. Pipe grouted on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 19.24)].
FS Date: 5/1/2017 10:55:06 AM

Photo 1 of 3 : UCIP_SP_2018_51773_47447.jpg

Waterside view: overview of abandoned slide gate structure

LM Start	**19.19**	Rating **	A/W	Issue No.	**193 (cont)**
LM End	**19.19**	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_51773_47446.jpg

Landside view: overview (no pipes)

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**19.19**	Rating **	A/W	Issue No.	**193 (cont)**
LM End	**19.19**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.370031 °	39.370031 °
				-121.996458 °	-121.996458 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51773
DS_ID:17347
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- plugged. (DWR Sutter Yard-AFreitag)11/1/2016 Abandoned/plugged. (DWR Sutter Yard-AFreitag)6/16/2016 Internal camera inspection was done on 11/19/2015 by Nor-Cal Pipeline Servies. Pipe was inspected starting from the WS end and inspected upto the grout plug that is 13.7ft into the pipe. Pipe was then capped and reburied until further abandonment can be achieved.4/2/2015 WS end of pipe was dug up in preparation for internal camera inspection. Only steel slide gate structure found on WS.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 21.7 feet below the crown. Slide gate at the waterside (WS) toe. Pipe grouted on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 19.24)].
FS Date: 5/1/2017 10:55:06 AM

Photo 3 of 3 : UCIP_SP_2018_51773_73781.jpg

WS pipe end and screw gate

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**19.55**	Rating **	M	Issue No.	**194**
LM End	**19.55**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.375221 °	39.375221 °
				-121.995878 °	-121.995878 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51775
DS_ID:17487
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)11/1/2016 Abandoned.(DWR Sutter Yard- AFreitag)6/3/2016 Abandoned crossing.4/2/2015 Same as last inspection. Slide Gate WS not found. An abandoned pump and steel pipe found on WS. A 6 ft x 8 ft concrete distribution box with a CMP found on LS. Box filled with soil. An abandoned crossing.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, invert 21.7 feet below the crown. Abandoned pump and steel pipe found on the waterside (WS). 6 foot by 8 foot concrete distribution box with the 36-inch corrugated metal pipe found on the landside (LS). [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 19.61)].
FS Date: 5/1/2017 10:56:50 AM

Photo 1 of 3 : UCIP_SP_2018_51775_47449.jpg

Waterside view: overview

LM Start	**19.55**	Rating **	M	Issue No.	**194 (cont)**
LM End	**19.55**	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_51775_47448.jpg

Waterside view: abandoned and ruined pipe

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**19.55**	Rating **	M	Issue No.	**194 (cont)**
LM End	**19.55**	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.375221 °	39.375221 °
				-121.995878 °	-121.995878 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51775
DS_ID:17487
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)11/1/2016 Abandoned.(DWR Sutter Yard- AFreitag)6/3/2016 Abandoned crossing.4/2/2015 Same as last inspection. Slide Gate WS not found. An abandoned pump and steel pipe found on WS. A 6 ft x 8 ft concrete distribution box with a CMP found on LS. Box filled with soil. An abandoned crossing.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, invert 21.7 feet below the crown. Abandoned pump and steel pipe found on the waterside (WS). 6 foot by 8 foot concrete distribution box with the 36-inch corrugated metal pipe found on the landside (LS). [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 19.61)].
FS Date: 5/1/2017 10:56:50 AM

Photo 3 of 3 : UCIP_SP_2018_51775_47453.jpg

Waterside view: abandoned and ruined pipe

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**19.97**	Rating **	M	Issue No.	**195**
LM End	**19.97**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.380501 °	39.380501 °
				-121.993546 °	-121.993546 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51776
DS_ID:17370
EP_NO: 9496
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/1/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/3/2016 Abandoned crossing4/2/2015 Same as last inspection. Only one pump found on WS. An abandoned surge box found on WS and pipe is grouted with cement. Two 16-inch steel pipe found on pump station along with two electrical conduits. A concrete distribution box found on LS with 20-inch CMP. Appears abandoned crossing.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 20-inch corrugated metal irrigation pipe through the levee, 19.8 feet below the crown. (Not 24-inch pipe, as stated in the O&M Manual, Automatic Board Order, and Levee Log). Two vertical pumps on a pile structure on the waterside (WS) bank (one pump found in 2015). Slide gate in a concrete surge box on the waterside (WS) berm. Discharges into a concrete distribution box on the landside (LS) across the county road. Switch board on the platform on the WS bank. (Automatic Board Order (ABO) issued as Permit No. 9496, 1974 - Womble). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 20.05)].
FS Date: 5/1/2017 10:57:25 AM

Photo 1 of 3 : UCIP_SP_2018_51776_47459.jpg

Waterside view: overview

LM Start	**19.97**	Rating **	M	Issue No.	**195 (cont)**
LM End	**19.97**	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_51776_47457.jpg

Waterside view: gate riser with slide gate

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	04/19/2018 04/19/2018	Bob Duffey

LM Start	**19.97**	Rating **	M	Issue No.	**195 (cont)**
LM End	**19.97**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.380501 °	39.380501 °
				-121.993546 °	-121.993546 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51776
DS_ID:17370
EP_NO: 9496
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/1/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/3/2016 Abandoned crossing4/2/2015 Same as last inspection. Only one pump found on WS. An abandoned surge box found on WS and pipe is grouted with cement. Two 16-inch steel pipe found on pump station along with two electrical conduits. A concrete distribution box found on LS with 20-inch CMP. Appears abandoned crossing.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 20-inch corrugated metal irrigation pipe through the levee, 19.8 feet below the crown. (Not 24-inch pipe, as stated in the O&M Manual, Automatic Board Order, and Levee Log). Two vertical pumps on a pile structure on the waterside (WS) bank (one pump found in 2015). Slide gate in a concrete surge box on the waterside (WS) berm. Discharges into a concrete distribution box on the landside (LS) across the county road. Switch board on the platform on the WS bank. (Automatic Board Order (ABO) issued as Permit No. 9496, 1974 - Womble). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 20.05)].
FS Date: 5/1/2017 10:57:25 AM

Photo 3 of 3 : UCIP_SP_2018_51776_47456.jpg

Waterside view: abandoned pipe with cement grouting

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

Flood Control Project Maintenance
Levee Inspections

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles
Unit No. 02 Colusa Bypass	Right	2.20

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/7/2018 - 3/7/2018			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

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 - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Colusa Bypass	Right	2.20	03/07/2018 03/07/2018	Bob Duffey

LM Start	**0.02**	Rating **	C	Issue No.	**6**
LM End	**0.02**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.232053 °	39.232053 °
				-121.995572 °	-121.995572 °
DWR ID	DWR_ST0003_02_s _ 2017_6				

Comment Code

E2 : Schedule repair of erosion site prior to the next inspection.

Inspector Comment

The erosion was repaired along the toe of the levee.

No Photos

LM Start	**0.02**	Rating **	M	Issue No.	**1**
LM End	**0.02**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.232058 °	39.232058 °
				-121.995514 °	-121.995514 °
DWR ID	DWR_ST0003_02_s _ 2012_1				

Comment Code

V4 : Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

LM Start	**0.41**	Rating **	A	Issue No.	**3**
LM End	**0.41**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.231423 °	39.231423 °
				-121.988438 °	-121.988438 °
DWR ID	DWR_ST0003_02_s _ 2018_3				

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Native grasses on both slopes are adequately maintained.

Photo 1 of 1 : SP_2018_ST0003_265_3_20180312_00005.jpg

View of native grasses on both slopes.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Colusa Bypass	Right	2.20	03/07/2018 03/07/2018	Bob Duffey

LM Start	**1.20**	Rating **	M	Issue No.	**12**
LM End	**1.20**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.229526 °	39.229526 °
				-121.975686 °	-121.975686 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49161
DS_ID:17531
EP_NO: 13534
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 6/3/2016 Crossing appears to be in good condition.4/6/2015 Same as last inspection. May need to add more substantial gasline markers.7/7/2014 Same as last inspection.12/19/2013 Same as last inspection.7/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 2.5-inch asphalt coated steel gas pipeline through the levee, 2.5 feet below the crown. A gas line marker found on the landside (LS). (Permit No. 13534, 1982 - Texaco, Incorporated). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 6/16/2016 10:00:15 AM

Photo 1 of 3 : UCIP_SP_2018_49161_47480.jpg

Landside view: overview gasline indicator

LM Start	**1.20**	Rating **	M	Issue No.	**12 (cont)**
LM End	**1.20**	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_49161_47479.jpg

Landside view: overview gasline indicator

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Colusa Bypass	Right	2.20	03/07/2018 03/07/2018	Bob Duffey

LM Start	**1.20**	Rating **	M	Issue No.	**12 (cont)**
LM End	**1.20**	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.229526 °	39.229526 °
				-121.975686 °	-121.975686 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49161
DS_ID:17531
EP_NO: 13534
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 6/3/2016 Crossing appears to be in good condition.4/6/2015 Same as last inspection. May need to add more substantial gasline markers.7/7/2014 Same as last inspection.12/19/2013 Same as last inspection.7/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 2.5-inch asphalt coated steel gas pipeline through the levee, 2.5 feet below the crown. A gas line marker found on the landside (LS). (Permit No. 13534, 1982 - Texaco, Incorporated). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 6/16/2016 10:00:15 AM

Photo 3 of 3 : UCIP_SP_2018_49161_47478.jpg

Landside view: gasline indicator

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

Flood Control Project Maintenance
Levee Inspections

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles
Unit No. 03 Colusa Bypass	Left	2.29

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/13/2018 - 3/13/2018			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

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:

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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 - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Colusa Bypass	Left	2.29	03/13/2018 03/13/2018	Bob Duffey

LM Start	**0.02**	Rating **	C	Issue No.	**9**
LM End	**1.04**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.236668 °	39.239502 °
				-121.993822 °	-121.975718 °
DWR ID	DWR_ST0003_03_s _ 2017_9				

Comment Code

S1 : Repair slope instability.

Inspector Comment

The erosion was repaired along the waterside slope and toe.

No Photos

LM Start	**0.25**	Rating **	C	Issue No.	**7**
LM End	**0.25**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.236155 °	39.236155 °
				-121.989572 °	-121.989572 °
DWR ID	DWR_ST0003_03_f _ 2016_7				

Comment Code

E2 : Schedule repair of erosion site prior to the next inspection.

Inspector Comment

No Photos

LM Start	**0.48**	Rating **	A	Issue No.	**1**
LM End	**0.48**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.236988 °	39.236988 °
				-121.985390 °	-121.985390 °
DWR ID	DWR_ST0003_03_s _ 2018_1				

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

LMA should continue to maintain native grasses on both slopes.

Photo 1 of 1 : SP_2018_ST0003_266_1_20180402_00007.jpg

View of the native grasses on both slopes.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Colusa Bypass	Left	2.29	03/13/2018 03/13/2018	Bob Duffey

LM Start	**0.56**	Rating **	C	Issue No.	**4**
LM End	**0.56**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.237220°	39.237220°
				-121.983908°	-121.983908°
DWR ID	DWR_ST0003_03_f _ 2016_4				

Comment Code

S1 : Repair slope instability.

Inspector Comment

The landside slope was repaired.

No Photos

LM Start	**1.94**	Rating **	M	Issue No.	**10**
LM End	**1.94**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.244888°	39.244888°
				-121.965595°	-121.965595°
DWR ID	DWR_ST0003_03_s _ 2012_10				

Comment Code

V4 : Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

LM Start	**2.04**	Rating **	M	Issue No.	**11**
LM End	**2.20**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.244882°	39.244908°
				-121.963752°	-121.960648°
DWR ID	DWR_ST0003_03_s _ 2017_11				

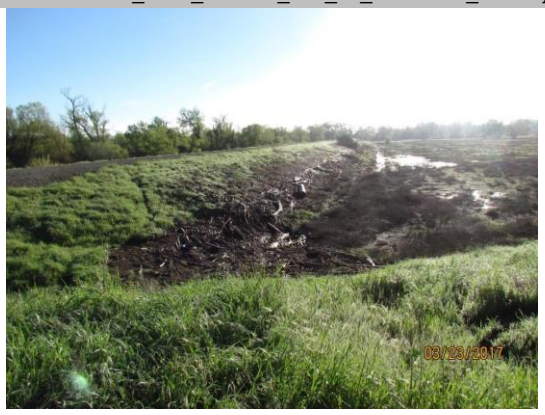
Comment Code

DE : Debris

Inspector Comment

Remove the debris from the waterside slope and toe.

Photo 1 of 1 : SP_2018_ST0003_266_11_20180305_00004.jpg



View of the debris along the waterside slope and toe.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Colusa Bypass	Left	2.29	03/13/2018 03/13/2018	Bob Duffey

LM Start	**2.13**	Rating **	M	Issue No.	**2**
LM End	**2.13**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.244925 °	39.244925 °
				-121.962072 °	-121.962072 °
DWR ID	DWR_ST0003_03_s _ 2015_2				

Comment Code

V4 : Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles
Unit No. 04 Moulton Bypass	Right	0.30

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/19/2018 - 4/19/2018			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

Summer & Winter Inspections

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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.

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Moulton Bypass	Right	0.30	04/19/2018 04/19/2018	Bob Duffey

LM Start	**0.00**	Rating **	M	Issue No.	**2**
LM End	**0.30**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.338155 °	39.335965 °
				-122.022108 °	-122.017568 °
DWR ID	DWR_ST0003_04_s _ 2018_2				

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Remove the native vegetation from the landside slope.

Photo 1 of 1 : SP_2018_ST0003_267_2_20180430_00001.jpg

View of the native vegetation along the landside slope.

LM Start	**0.00**	Rating **	C	Issue No.	**1**
LM End	**0.31**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.338155 °	39.335883 °
				-122.022108 °	-122.017563 °
DWR ID	DWR_ST0003_04_s _ 2018_1				

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Removed the native vegetation from the waterside slope.

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles
Unit No. 05 Moulton Bypass	Left	2.19

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/19/2018 - 4/19/2018			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

Summer & Winter Inspections

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b) any changes other than the results of normal maintenance
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Moulton Bypass	Left	2.19	04/19/2018 04/19/2018	Bob Duffey

LM Start	**0.00**	Rating **	M	Issue No.	**3**
LM End	**2.18**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.347275°	39.336862°
				-122.015353°	-121.984985°
DWR ID	DWR_ST0003_05_s _ 2017_3				

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Trim/maintain the native vegetation on the landside slope.

Photo 1 of 1 : SP_2018_ST0003_268_3_20180430_00006.jpg

View of the native vegetation along the landside slope.

LM Start	**0.00**	Rating **	M	Issue No.	**4**
LM End	**2.18**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.347275°	39.336862°
				-122.015353°	-121.984985°
DWR ID	DWR_ST0003_05_s _ 2017_4				

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Trim/maintain the native vegetation on the waterside slope.

Photo 1 of 1 : SP_2018_ST0003_268_4_20180430_00007.jpg

View of the native vegetation along the waterside slope.

LM Start	**0.01**	Rating **	C	Issue No.	**2**
LM End	**0.01**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.347143°	39.347143°
				-122.015400°	-122.015400°
DWR ID	DWR_ST0003_05_s _ 2017_2				

Comment Code

PR : Prunings

Inspector Comment

The prunings was removed from the landside toe.

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Moulton Bypass	Left	2.19	04/19/2018 04/19/2018	Bob Duffey

LM Start	**0.71**	Rating **	M	Issue No.	**5**
LM End	**0.71**	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.341167 °	39.341167 °
				-122.010412 °	-122.010412 °
DWR ID	DWR_ST0003_05_s _ 2018_5				

Comment Code

PR : Prunings

Inspector Comment

Remove the prunings from the waterside toe.

Photo 1 of 1 : SP_2018_ST0003_268_5_20180430_00008.jpg

View of the prunings along the waterside toe.

LM Start	**1.59**	Rating **	M	Issue No.	**1**
LM End	**2.18**	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.335953 °	39.336852 °
				-121.995807 °	-121.984934 °
DWR ID	DWR_ST0003_05_s _ 2016_1				

Comment Code

FE : Fence

Inspector Comment

Photo 1 of 1 : SP_2018_ST0003_268_1_20180305_00001.jpg

View of the fence obstructing access.

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