Flood Control Project Maintenance
Levee Inspections

LMA District Cover Sheet

Spring 2017 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0017

	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 2017 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/10/2017 - 5/10/2017			
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 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start		Rating **	A	Issue No.	**7**
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			° °	° °
DWR ID	DWR_MA0017_01_s _ 2013_7				

Comment Code

Inspector Comment

The LMA has the O&M manuals.

No Photos

LM Start		Rating **	A	Issue No.	**8**
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			° °	° °
DWR ID	DWR_MA0017_01_s _ 2013_8				

Comment Code

Inspector Comment

The LMA has adequate flood fight supplies and equipment.

No Photos

LM Start		Rating **	A	Issue No.	**9**
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			° °	° °
DWR ID	DWR_MA0017_01_s _ 2013_9				

Comment Code

Inspector Comment

The LMA completed flood fight training in 2014.

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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**3.44**	Rating **	A	Issue No.	**24**
LM End	**3.44**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.148593 °	39.148593 °
				-122.911912 °	-122.911912 °
DWR ID	DWR_MA0017_01_s _ 2017_24				

Comment Code

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

Inspector Comment

There are native grasses on both slopes.

Photo 1 of 1 : SP_2017_MA0017_339_24_20170515_00042.jpg

View of the native grasses on both slopes.

LM Start	**3.50**	Rating **	M	Issue No.	**17**
LM End	**3.50**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.147927 °	39.147927 °
				-122.911294 °	-122.911294 °
DWR ID	DWR_MA0017_01_f _ 2016_17				

Comment Code

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

Inspector Comment

No Photos

LM Start	**3.81**	Rating **	M	Issue No.	**15**
LM End	**3.84**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.144980 °	39.144620 °
				-122.907073 °	-122.906546 °
DWR ID	DWR_MA0017_01_s _ 2016_15				

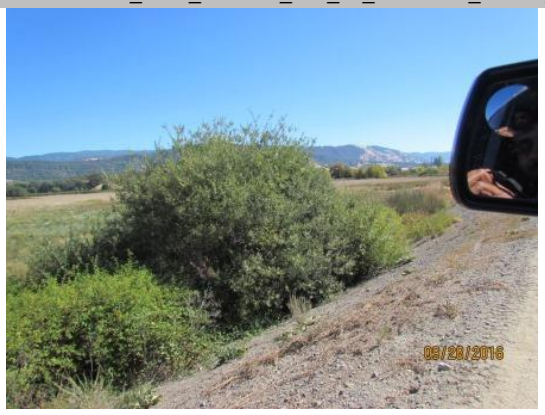
Comment Code

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

Inspector Comment

Large bushes and brambles covering wire fence, limiting visibility and access.

Photo 1 of 1 : SP_2017_MA0017_339_15_20170315_00003.jpg



View of the large bushes limiting visibility and access.

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* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**3.84**	Rating **	M	Issue No.	**25**
LM End	**3.84**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.144695 °	39.144695 °
				-122.906668 °	-122.906668 °
DWR ID	DWR_MA0017_01_s _ 2017_25				

Comment Code

T2 : Thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

Trim the trees along the landside toe.

Photo 1 of 1 : SP_2017_MA0017_339_25_20170515_00043.jpg

View of the trees along the landside toe.

LM Start	**3.95**	Rating **	A/W	Issue No.	**26**
LM End	**3.95**	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.143792 °	39.143792 °
				-122.904798 °	-122.904798 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50814
DS_ID:844
EP_NO: 11463
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 10/19/2016 Crossing appears to be in good ondition. (DWR Sutter Yard- AFreitag)6/14/2016 crossing appears to be in good condition.4/23/2015 No issues with pipe.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 New flap gate installed. No other issues with pipe.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Timber walkway on the landside (LS) slope to a timber walkway to pump house mounted on piles in drainage ditch. (Automatic Board Order (ABO) issued as Permit No. 11463, 1975 - Jones). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.2, August 1961, (HLM 3.99)].
FS Date: 11/21/2016 12:09:38 PM

Photo 1 of 3 : UCIP_SP_2017_50814_46849.jpg

24-inch CMP at outlet on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**3.95**	Rating **	A/W	Issue No.	**26 (cont)**
LM End	**3.95**	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.143792 °	39.143792 °
				-122.904798 °	-122.904798 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50814
DS_ID:844
EP_NO: 11463
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 10/19/2016 Crossing appears to be in good ondition. (DWR Sutter Yard- AFreitag)6/14/2016 crossing appears to be in good condition.4/23/2015 No issues with pipe.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 New flap gate installed. No other issues with pipe.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Timber walkway on the landside (LS) slope to a timber walkway to pump house mounted on piles in drainage ditch. (Automatic Board Order (ABO) issued as Permit No. 11463, 1975 - Jones). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.2, August 1961, (HLM 3.99)].
FS Date: 11/21/2016 12:09:38 PM

Photo 2 of 3 : UCIP_SP_2017_50814_46848.jpg

Pumphouse on piles at LS toe.

LM Start	**3.95**	Rating **	A/W	Issue No.	**26 (cont)**
LM End	**3.95**	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : UCIP_SP_2017_50814_46850.jpg

New flap gate on WS

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**3.96**	Rating **	M	Issue No.	**16**
LM End	**4.03**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.143741 °	39.143585 °
				-122.904705 °	-122.903482 °
DWR ID	DWR_MA0017_01_s _ 2016_16				

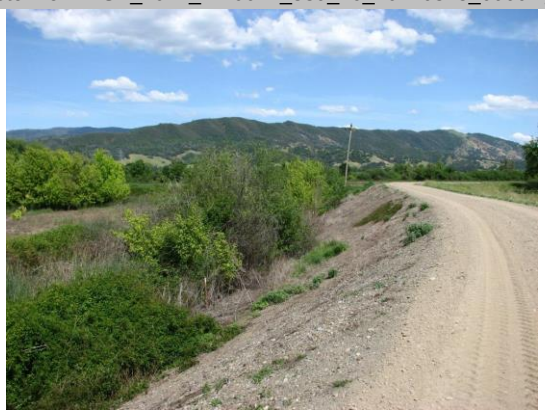
Comment Code

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

Inspector Comment

Large bushes and brambles growing on wire fence on LS toe limiting visibility and access.

Photo 1 of 1 : SP_2017_MA0017_339_16_20170315_00004.jpg



5/2/2016: Remove or trim dense vegetation growing on fence to allow visibility and access to L/S toe.

LM Start	**4.13**	Rating **	A/W	Issue No.	**27**
LM End	**4.13**	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.142287 °	39.142287 °
				-122.902436 °	-122.902436 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50815
DS_ID:845
EP_NO: 11464
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/14/2016 crossing appears to be in goiod condition.4/23/2015 No issues with pipe.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Bloody Island Pumping Plant] 1 of 2: 42-inch corrugated metal drainage pipe through the levee, 20.2 feet below the crown. Concrete headwall and discharge apron on the waterside (WS) shoulder. Three vertical pump units mounted on reinforced concrete pump platform in drainage ditch at the landside (LS) toe. Flap gates in concrete discharge well on the LS. Combination flap and slide gate on gravity pipe from drain ditch into discharge well. (Automatic Board Order (ABO) issued as Permit No. 11464, 1975 - Lake County) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.2, August 1961, (HLM 4.18)].
FS Date: 11/21/2016 12:10:29 PM

Photo 1 of 3 : UCIP_SP_2017_50815_46853.jpg

Pumping Plant on LS shoulder.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**4.13**	Rating **	A/W	Issue No.	**27 (cont)**
LM End	**4.13**	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.142287 °	39.142287 °
				-122.902436 °	-122.902436 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50815
DS_ID:845
EP_NO: 11464
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/14/2016 crossing appears to be in goiod condition.4/23/2015 No issues with pipe.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Bloody Island Pumping Plant] 1 of 2: 42-inch corrugated metal drainage pipe through the levee, 20.2 feet below the crown. Concrete headwall and discharge apron on the waterside (WS) shoulder. Three vertical pump units mounted on reinforced concrete pump platform in drainage ditch at the landside (LS) toe. Flap gates in concrete discharge well on the LS. Combination flap and slide gate on gravity pipe from drain ditch into discharge well. (Automatic Board Order (ABO) issued as Permit No. 11464, 1975 - Lake County) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.2, August 1961, (HLM 4.18)].
FS Date: 11/21/2016 12:10:29 PM

Photo 2 of 3 : UCIP_SP_2017_50815_46852.jpg

Slide gates in CMP risers on WS shoulder.

LM Start	**4.13**	Rating **	A/W	Issue No.	**27 (cont)**
LM End	**4.13**	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : UCIP_SP_2017_50815_46851.jpg

Pumping Plant on LS 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**4.14**	Rating **	A/W	Issue No.	**28**
LM End	**4.14**	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.142262 °	39.142262 °
				-122.902423 °	-122.902423 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50816
DS_ID:852
EP_NO: 11464
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/14/2016 crossing appears to be in goiod condition.4/23/2015 No issues with pipe.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Bloody Island Pumping Plant] 2 of 2: 42-inch corrugated metal drainage pipe through the levee, 14.6 feet below the crown. Concrete headwall and discharge apron on the waterside (WS) shoulder. Three vertical pump units mounted on reinforced concrete pump platform in drainage ditch at the landside (LS) toe. Flap gates in concrete discharge well on the LS. Combination flap and slide gate on gravity pipe from drain ditch into discharge well. (Automatic Board Order (ABO) issued as Permit No. 11464, 1975 - Lake County) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.2, August 1961, (HLM 4.18)].
FS Date: 11/21/2016 12:11:01 PM

Photo 1 of 3 : UCIP_SP_2017_50816_46856.jpg

Pumping plant on LS shoulder.

LM Start	**4.14**	Rating **	A/W	Issue No.	**28 (cont)**
LM End	**4.14**	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : UCIP_SP_2017_50816_46855.jpg

Slide gate in CMP riser on WS 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**4.14**	Rating **	A/W	Issue No.	**28 (cont)**
LM End	**4.14**	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.142262 °	39.142262 °
				-122.902423 °	-122.902423 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50816
DS_ID:852
EP_NO: 11464
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/14/2016 crossing appears to be in goiod condition.4/23/2015 No issues with pipe.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Bloody Island Pumping Plant] 2 of 2: 42-inch corrugated metal drainage pipe through the levee, 14.6 feet below the crown. Concrete headwall and discharge apron on the waterside (WS) shoulder. Three vertical pump units mounted on reinforced concrete pump platform in drainage ditch at the landside (LS) toe. Flap gates in concrete discharge well on the LS. Combination flap and slide gate on gravity pipe from drain ditch into discharge well. (Automatic Board Order (ABO) issued as Permit No. 11464, 1975 - Lake County) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.2, August 1961, (HLM 4.18)].
FS Date: 11/21/2016 12:11:01 PM

Photo 3 of 3 : UCIP_SP_2017_50816_46854.jpg

Pumping plant on LS shoulder.

LM Start	**4.16**	Rating **	U	Issue No.	**2**
LM End	**7.10**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.141894 °	39.120609 °
				-122.902201 °	-122.887166 °
DWR ID	DWR_MA0017_01_s _ 2012_2				

Comment Code

T2 : Thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

Trees and limbs are completely obstructing visibility on crown and WS. Crown is too narrow to drive, and overgrown with weeds, brush and trees. Road follows LS toe.

Photo 1 of 2 : SP_2017_MA0017_339_2_20170315_00001.jpg

View of the trees 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**4.16**	Rating **	U	Issue No.	**2 (cont)**
LM End	**7.10**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.141894°	39.120609°
				-122.902201°	-122.887166°
DWR ID	DWR_MA0017_01_s _ 2012_2				

Comment Code

T2 : Thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

Trees and limbs are completely obstructing visibility on crown and WS. Crown is too narrow to drive, and overgrown with weeds, brush and trees. Road follows LS toe.

Photo 2 of 2 : SP_2017_MA0017_339_2_20170315_00002.jpg

Photo taken at LM 6.41 looking west showing overgrown LS slope of levee at right and toe road at left. Note trees obstructing visibility and access at levee crown. Crown is +/- 5 feet wide, and impassible to vehicles due to vegetation, and in some places, to pedestrians. 4/19/2016

LM Start	**4.27**	Rating **	M	Issue No.	**29**
LM End	**4.27**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.140422°	39.140422°
				-122.902022°	-122.902022°
DWR ID					

Comment Code

Inspector Comment

FS_ID:50817
DS_ID:846
EP_NO: 11462
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/19/2016 No riser lid or slide gate wheel. (DWR Sutter Yard- AFreitag)6/14/2016 No riser lid and no wheel to operate screw gate.4/23/2015 Still no lid on riser and wheel to operate slide gate is missing.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.12/13/2012 No lid on riser-may or may not be an issue.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. Slide gate in 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. (Automatic Board Order (ABO) issued as Permit No. 11462, 1975 - Hobson) [Additional Reference(s): DWR Levee Log, 2005].
FS Date: 11/21/2016 12:11:29 PM

Photo 1 of 2 : UCIP_SP_2017_50817_46858.jpg

Slide gate in CMP riser on WS 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**4.27**	Rating **	M	Issue No.	**29 (cont)**
LM End	**4.27**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.140422 °	39.140422 °
				-122.902022 °	-122.902022 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50817
DS_ID:846
EP_NO: 11462
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/19/2016 No riser lid or slide gate wheel. (DWR Sutter Yard- AFreitag)6/14/2016 No riser lid and no wheel to operate screw gate.4/23/2015 Still no lid on riser and wheel to operate slide gate is missing.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.12/13/2012 No lid on riser-may or may not be an issue.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. Slide gate in 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. (Automatic Board Order (ABO) issued as Permit No. 11462, 1975 - Hobson) [Additional Reference(s): DWR Levee Log, 2005].
FS Date: 11/21/2016 12:11:29 PM

Photo 2 of 2 : UCIP_SP_2017_50817_46857.jpg

LS toe at approximate location of pipe inlet.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

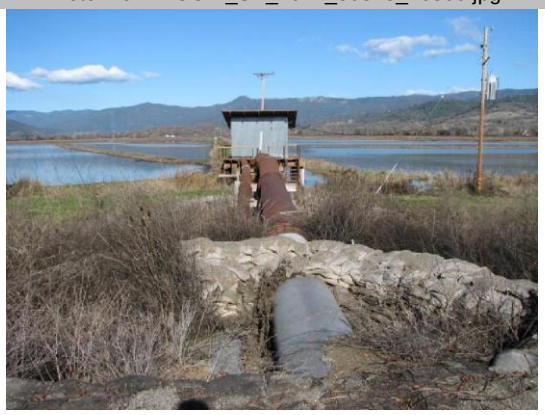
LM Start	**5.34**	Rating **	M	Issue No.	**30**
LM End	**5.34**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.127449 °	39.127449 °
				-122.893460 °	-122.893460 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50818
DS_ID:847
EP_NO: 11469
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/19/2016 Sack ring still in place. (DWR Sutter Yard- AFreitag)6/14/2016 Sack ring is still built up underneath the pipes.4/23/2015 Sack ring is still built up underneath the pipes.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.12/13/2012 flood fight materials-ring levees around both LS and WS slopes at pipe crossing. This may or may not be an issue.
FIELD_STRUCT_DESC: 1 of 2: 16-inch steel drainage pipe through the levee, 5 feet below the crown. Drainage pumping plant on the landside (LS). Flap gate on the waterside (WS) end. (Automatic Board Order (ABO) issued as Permit No. 11469, 1975 - RD 2070). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 5.43)].
FS Date: 11/21/2016 12:11:57 PM

Photo 1 of 2 : UCIP_SP_2017_50818_46860.jpg



Pumping plant, pipes, and ring levees on LS toe.

LM Start	**5.34**	Rating **	M	Issue No.	**30 (cont)**
LM End	**5.34**	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : UCIP_SP_2017_50818_46859.jpg

16-inch pipe, flap gate, air vent, and ring levee on WS 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

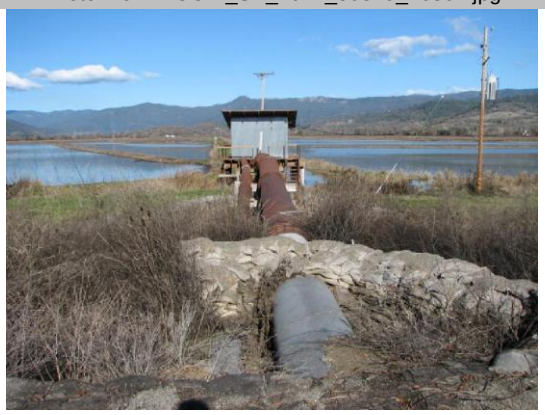
LM Start	**5.35**	Rating **	M	Issue No.	**31**
LM End	**5.35**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.127451 °	39.127451 °
				-122.893450 °	-122.893450 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50819
DS_ID:853
EP_NO: 11469
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/19/2016 Sack ring still in place. (DWR Sutter Yard- AFreitag)6/14/2016 Sack ring is still built up underneath the pipes.4/23/2015 Sack ring still built up underneath the pipes.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.12/13/2012 flood fight materials-ring levees around both LS and WS slopes at pipe crossing. This may or may not be an issue.
FIELD_STRUCT_DESC: 2 of 2: 36-inch steel drainage pipe through the levee, 5 feet below the crown. Flap gate and air vent on the waterside (WS) slope. (Automatic Board Order (ABO) issued as Permit No. 11469, 1975 - RD 2070). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 5.43)].
FS Date: 11/21/2016 12:12:31 PM

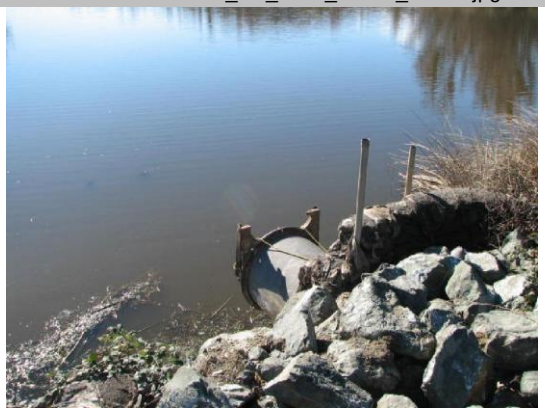
Photo 1 of 2 : UCIP_SP_2017_50819_46864.jpg



Pipes and pump house on LS toe with ring levees.

LM Start	**5.35**	Rating **	M	Issue No.	**31 (cont)**
LM End	**5.35**	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : UCIP_SP_2017_50819_46863.jpg



Pipe, flap gate, air vent, and sandbags on WS 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 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**5.78**	Rating **	M	Issue No.	**32**
LM End	**5.78**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.127612 °	39.127612 °
				-122.885520 °	-122.885520 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50820
DS_ID:848
EP_NO: 11457
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/19/2016 No riser lid or slide gate wheel. (DWR Sutter Yard- AFreitag)6/14/2016 No riser lid and no wheel to operate screw gate.4/23/2015 No cover on riser and no wheel to operate gate.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Handle to operate gate was in place but still no cover on riser.12/13/2012 No cover on CMP riser and no handle for actuating gate. This may or may not be an issue.
FIELD_STRUCT_DESC: 24-inch drainage pipe under patrol road and through the levee, 13.5 feet below the crown. Concrete "U" shaped headwall on the landside (LS) end. Slide gate in 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Riser unit is mounted on concrete base. (Automatic Board Order (ABO) issued as Permit No. 11457, 1975 - Crawford). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 5.87)].
FS Date: 11/21/2016 12:12:57 PM

Photo 1 of 2 : UCIP_SP_2017_50820_46866.jpg

36-inch CMP riser and slide gate on WS slope.

LM Start	**5.78**	Rating **	M	Issue No.	**32 (cont)**
LM End	**5.78**	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : UCIP_SP_2017_50820_46865.jpg

Approximate location of inlet on LS toe (not visible).

* 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 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**5.96**	Rating **	A/W	Issue No.	**33**
LM End	**5.96**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.126322 °	39.126322 °
				-122.882764 °	-122.882764 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50821
DS_ID:849
EP_NO: 11467
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/14/2016 Flap gate propped open. Will make sure its closed before flood season.4/23/2015 Flap gate propped open. Not an issue at this time. Will close it before high water season.7/3/2014 Same as last inspection12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.
FIELD_STRUCT_DESC: 1 of 2: 54-inch corrugated metal drainage pipe through the levee 11.5 feet below the crown. Highland Canal Diversion Weir and Drainage Structure on the landside (LS). Concrete headwall on both landside (LS) and waterside (WS) toe with flap gate on the WS toe. (Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 6.05)].
FS Date: 11/21/2016 12:13:32 PM

Photo 1 of 3 : UCIP_SP_2017_50821_46869.jpg

Concrete weir/dam and channel on LS toe.

LM Start	**5.96**	Rating **	A/W	Issue No.	**33 (cont)**
LM End	**5.96**	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : UCIP_SP_2017_50821_46868.jpg

pipe and flap gate on WS 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**5.96**	Rating **	A/W	Issue No.	**33 (cont)**
LM End	**5.96**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.126322 °	39.126322 °
				-122.882764 °	-122.882764 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50821
DS_ID:849
EP_NO: 11467
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/14/2016 Flap gate propped open. Will make sure its closed before flood season.4/23/2015 Flap gate propped open. Not an issue at this time. Will close it before high water season.7/3/2014 Same as last inspection12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.
FIELD_STRUCT_DESC: 1 of 2: 54-inch corrugated metal drainage pipe through the levee 11.5 feet below the crown. Highland Canal Diversion Weir and Drainage Structure on the landside (LS). Concrete headwall on both landside (LS) and waterside (WS) toe with flap gate on the WS toe. (Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 6.05)].
FS Date: 11/21/2016 12:13:32 PM

Photo 3 of 3 : UCIP_SP_2017_50821_46867.jpg

Concrete headwall at inlet on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**5.96**	Rating **	A/W	Issue No.	**34**
LM End	**5.96**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.126298 °	39.126298 °
				-122.882756 °	-122.882756 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50822
DS_ID:854
EP_NO: 11467
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/14/2016 Flap gate propped open. Will make sure its closed before flood season.4/23/2015 Flap gate propped open. Not an issue at this time. Will close it before high water season.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.
FIELD_STRUCT_DESC: 2 of 2: 54-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown.Highland Canal Diversion Weir and Drainage Structure on the landside (LS). Concrete headwall on both landside (LS) and waterside (WS) toe with flap gate on the WS toe. (Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 6.05)].
FS Date: 11/21/2016 12:14:05 PM

Photo 1 of 3 : UCIP_SP_2017_50822_46872.jpg

Concrete dam/weir and channel on LS toe.

LM Start	**5.96**	Rating **	A/W	Issue No.	**34 (cont)**
LM End	**5.96**	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : UCIP_SP_2017_50822_46871.jpg

Pipe and flap gate on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**5.96**	Rating **	A/W	Issue No.	**34 (cont)**
LM End	**5.96**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.126298 °	39.126298 °
				-122.882756 °	-122.882756 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50822
DS_ID:854
EP_NO: 11467
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/14/2016 Flap gate propped open. Will make sure its closed before flood season.4/23/2015 Flap gate propped open. Not an issue at this time. Will close it before high water season.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.
FIELD_STRUCT_DESC: 2 of 2: 54-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown.Highland Canal Diversion Weir and Drainage Structure on the landside (LS). Concrete headwall on both landside (LS) and waterside (WS) toe with flap gate on the WS toe. (Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 6.05)].
FS Date: 11/21/2016 12:14:05 PM

Photo 3 of 3 : UCIP_SP_2017_50822_46870.jpg

Concrete headwall on LS 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 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**5.99**	Rating **	M	Issue No.	**35**
LM End	**5.99**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126057 °	39.126057 °
				-122.883096 °	-122.883096 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50823
DS_ID:20589
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/19/2016 12" pipe not present for this inspection. (DWR Sutter Yard- AFreitag)6/14/2106 12" pipe was removed from the roadway. Portable pump was not found on the bank this time.4/23/2015 12" pipe still ran over the top of roadway. 7/3/2014 Same as last inspection.12/23/2013 No signs of 12" pvc. Portable tow-pump was lowered down on waterside with 12" pipe ran over roadway.8/2/2013 Same as last inspection.12/13/2012 No permit for crossing.
FIELD_STRUCT_DESC: *REMOVED* 12-inch high-density polyethylen (HDPE) drainage pipe through the levee, 1.5 feet below the crown. No permit has been identified since crossing was field discovered in 2012.
FS Date: 11/21/2016 12:14:52 PM

Photo 1 of 1 : UCIP_SP_2017_50823_47920.jpg

Portable pump on WS and temporary piping over roadway

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**6.00**	Rating **	U	Issue No.	**36**
LM End	**6.00**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126038 °	39.126038 °
				-122.883351 °	-122.883351 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50824
DS_ID:20587
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 10/19/2016 WS erosion still present. (DWR Sutter Yard- AFreitag)6/14/2016 WS erosoin is still present. (DWR Sutter Yard - afreitag)4/23/2015 Erosion on WS shoulder is still present. (DWR Sutter Yard - afreitag)7/3/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/23/2013 Same as last inspection. (DWR Sutter Yard - afreitag)8/2/2013 Erosion on WS shoulder above pipes. (DWR Sutter Yard - afreitag)12/13/2012 No permit for this crossing. This is a primer line, used to fill up main pipe before its pump is turned on (Permit No. 11467). (DWR UCIP - wwylie)
FIELD_STRUCT_DESC: 4-inch polyvinyl (PVC) conduit through the levee, 2 feet below the crown with plastic pipe running through it to pump on the landside (LS). No permit has been identified since crossing was field discovered in 2012.
FS Date: 11/21/2016 12:15:33 PM

Photo 1 of 3 : UCIP_SP_2017_50824_46878.jpg

4-inch pvc pipe with green flexible pipe running through it on WS shoulder.

LM Start	**6.00**	Rating **	U	Issue No.	**36 (cont)**
LM End	**6.00**	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_SP_2017_50824_46877.jpg

4-inch pvc pipe with green flexible pipe running through it on WS 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**6.00**	Rating **	U	Issue No.	**36 (cont)**
LM End	**6.00**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126038 °	39.126038 °
				-122.883351 °	-122.883351 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50824
DS_ID:20587
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 10/19/2016 WS erosion still present. (DWR Sutter Yard- AFreitag)6/14/2016 WS erosoin is still present. (DWR Sutter Yard - afreitag)4/23/2015 Erosion on WS shoulder is still present. (DWR Sutter Yard - afreitag)7/3/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/23/2013 Same as last inspection. (DWR Sutter Yard - afreitag)8/2/2013 Erosion on WS shoulder above pipes. (DWR Sutter Yard - afreitag)12/13/2012 No permit for this crossing. This is a primer line, used to fill up main pipe before its pump is turned on (Permit No. 11467). (DWR UCIP - wwylie)
FIELD_STRUCT_DESC: 4-inch polyvinyl (PVC) conduit through the levee, 2 feet below the crown with plastic pipe running through it to pump on the landside (LS). No permit has been identified since crossing was field discovered in 2012.
FS Date: 11/21/2016 12:15:33 PM

Photo 3 of 3 : UCIP_SP_2017_50824_46876.jpg

LS pump station on 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**6.00**	Rating **	U	Issue No.	**37**
LM End	**6.00**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126038 °	39.126038 °
				-122.883351 °	-122.883351 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50825
DS_ID:20588
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 10/19/2016 WS erosion still present. (DWR Sutter Yard- AFreitag)6/14/2016 WS erosion is still present. (DWR Sutter Yard - afreitag)4/23/2015 Erosion still present on WS shoulder. (DWR Sutter Yard - afreitag)7/3/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/23/2013 Same as last inspection. (DWR Sutter Yard - afreitag)8/2/2013 Erosion on WS shoulder above pipes. (DWR Sutter Yard - afreitag)12/13/2012 No permit for this crossing. It is unclear what these hydraulic lines are for, but it is probably the works for a hydraulic butterfly valve at the outlet. (DWR UCIP - wwylie)
FIELD_STRUCT_DESC: 4-inch polyvinyl chloride (PVC) conduit through the levee, 2 feet below the crown with hydraulic lines running through it to pump on the landside (LS) shoulder. No permit has been identified since crossing was field discovered in 2012.
FS Date: 11/21/2016 12:16:01 PM

Photo 1 of 3 : UCIP_SP_2017_50825_46874.jpg

Pipe and hydraulic lines on WS shoulder.

LM Start	**6.00**	Rating **	U	Issue No.	**37 (cont)**
LM End	**6.00**	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_SP_2017_50825_46873.jpg

Pump station on LS shoulder, see hydraulic pump at right.

* 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 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**6.00**	Rating **	U	Issue No.	**37 (cont)**
LM End	**6.00**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126038 °	39.126038 °
				-122.883351 °	-122.883351 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50825
DS_ID:20588
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 10/19/2016 WS erosion still present. (DWR Sutter Yard- AFreitag)6/14/2016 WS erosion is still present. (DWR Sutter Yard - afreitag)4/23/2015 Erosion still present on WS shoulder. (DWR Sutter Yard - afreitag)7/3/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/23/2013 Same as last inspection. (DWR Sutter Yard - afreitag)8/2/2013 Erosion on WS shoulder above pipes. (DWR Sutter Yard - afreitag)12/13/2012 No permit for this crossing. It is unclear what these hydraulic lines are for, but it is probably the works for a hydraulic butterfly valve at the outlet. (DWR UCIP - wwylie)
FIELD_STRUCT_DESC: 4-inch polyvinyl chloride (PVC) conduit through the levee, 2 feet below the crown with hydraulic lines running through it to pump on the landside (LS) shoulder. No permit has been identified since crossing was field discovered in 2012.
FS Date: 11/21/2016 12:16:01 PM

Photo 3 of 3 : UCIP_SP_2017_50825_46875.jpg

Erosion on WS 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**6.00**	Rating **	U	Issue No.	**38**
LM End	**6.00**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.126027 °	39.126027 °
				-122.883371 °	-122.883371 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50826
DS_ID:850
EP_NO: 11467
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 10/19/2016 WS erosion still present. (DWR Sutter Yard- AFreitag)6/14/2016 WS erosion is still present. (DWR Sutter Yard - afreitag)4/23/2015 Same as last inspection. (DWR Sutter Yard - afreitag)7/3/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/23/2013 Same as last inspection. (DWR Sutter Yard - afreitag)8/2/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/13/2012 This pipe and appurtances do not match what was described in the permit (PN: 11467). Does not appear to be in compliance with board regulations. (DWR UCIP - wwylie)
FIELD_STRUCT_DESC: 12-inch steel drainage pipe through the levee, 2-feet below the crown. Butterfly valve on the landside (LS) shoulder. Pump and electric panel along with multiple valves and appurtances on the LS shoulder. (Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin)[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 6.11)].
FS Date: 11/21/2016 12:16:25 PM

Photo 1 of 3 : UCIP_SP_2017_50826_46882.jpg

12-inch pipe and appurtances on WS shoulder.

LM Start	**6.00**	Rating **	U	Issue No.	**38 (cont)**
LM End	**6.00**	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : UCIP_SP_2017_50826_46881.jpg

12-inch pipe and appurtances on WS 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**6.00**	Rating **	U	Issue No.	**38 (cont)**
LM End	**6.00**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.126027 °	39.126027 °
				-122.883371 °	-122.883371 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50826
DS_ID:850
EP_NO: 11467
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 10/19/2016 WS erosion still present. (DWR Sutter Yard- AFreitag)6/14/2016 WS erosion is still present. (DWR Sutter Yard - afreitag)4/23/2015 Same as last inspection. (DWR Sutter Yard - afreitag)7/3/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/23/2013 Same as last inspection. (DWR Sutter Yard - afreitag)8/2/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/13/2012 This pipe and appurtances do not match what was described in the permit (PN: 11467). Does not appear to be in compliance with board regulations. (DWR UCIP - wwylie)
FIELD_STRUCT_DESC: 12-inch steel drainage pipe through the levee, 2-feet below the crown. Butterfly valve on the landside (LS) shoulder. Pump and electric panel along with multiple valves and appurtances on the LS shoulder. (Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin)[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 6.11)].
FS Date: 11/21/2016 12:16:25 PM

Photo 3 of 3 : UCIP_SP_2017_50826_46880.jpg

Pumping plant and appurtances on LS shoulder.

LM Start	**6.03**	Rating **	U	Issue No.	**23**
LM End	**7.28**	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			39.126045 °	39.118727 °
				-122.883828 °	-122.884842 °
DWR ID	DWR_MA0017_01_s _ 2017_23				

Comment Code

Inspector Comment

There was water along the landside slope so that area was unable to be inspected.

Photo 1 of 1 : SP_2017_MA0017_339_23_20170515_00044.jpg

View of the water along the landside slope.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**7.16**	Rating **	M	Issue No.	**39**
LM End	**7.16**	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.120083 °	39.120083 °
				-122.886502 °	-122.886502 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50827
DS_ID:851
EP_NO: 11467
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/19/2016 Abandoned- should be done so properly. (DWR Sutter Yard- AFreitag)6/14/2016 Abandoned crossing.4/23/2015 Same as last inspection. Pipe still needs to be properly abandoned.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.12/13/2012 Pipe should be properly abandoned.
FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 16-inch steel drainage pipe through the levee, 8 feet below the crown. Drainage pumping plant on the landside (LS). Flap gate on the waterside (WS) end. Steel plate welded on end of pipe at LS toe. (Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin)[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 7.19)].
FS Date: 11/21/2016 12:16:52 PM

Photo 1 of 2 : UCIP_SP_2017_50827_46884.jpg

Pumping plant in shed on LS at drainage ditch.

LM Start	**7.16**	Rating **	M	Issue No.	**39 (cont)**
LM End	**7.16**	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : UCIP_SP_2017_50827_46883.jpg

Steel plate welded over end of pipe at LS 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	05/10/2017 05/10/2017	Bob Duffey

LM Start	**7.16**	Rating **	A/W	Issue No.	**40**
LM End	**7.16**	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.120069 °	39.120069 °
				-122.886484 °	-122.886484 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50828
DS_ID:855
EP_NO: 11467
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/14/2016 Crossing appears to be in good condition.4/23/2015 No issues seen with pipe.7/3/2014 Same as last inspection.8/2/2013 Same as last inspection.12/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 2 of 2: 24-inch steel drainage pipe through the levee, 8 feet below the crown.
Drainage pumping plant on the landside (LS). Flap gate on the waterside (WS) end. (Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin)[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 7.19)].
FS Date: 11/21/2016 12:17:36 PM

Photo 1 of 2 : UCIP_SP_2017_50828_46886.jpg

24-inch steel pipe and pump house on LS.

LM Start	**7.16**	Rating **	A/W	Issue No.	**40 (cont)**
LM End	**7.16**	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : UCIP_SP_2017_50828_46885.jpg

Air vent on pipe at LS pumphouse.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement