

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2020 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0012

	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 indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2020 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0012

Waterway			Bank	Unit Miles
Unit No. 01 Colusa Drain			Left	11.06
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/1/2020 - 4/1/2020			
DWR Inspector	Zach Jojola			
Accompanied By				

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 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0012_01_s_2013_12				
Comment Code					
Inspector Comment					
The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	13
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0012_01_s_2013_13				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	14
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_MA0012_01_s_2013_14				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2019.					

No Photos

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	0.01	Rating **	M	Issue No.	40	
LM End	0.01	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.033999 °	39.033999 °	
				-121.993375 °	-121.993375 °	
DWR ID	17155					
Comment Code						
Inspector Comment						
DS_ID:17155 FS_ID:56156 EP_NO: 9381 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 03/04/2020 Record updated from No Action Needed to Non-Urgent. Need to have CVFPB review ABO and determine current owner. Recommend internal video inspection. (O.Yakimov - DWR UCIP) 05/02/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag) 10/17/2016 Crossing appears to be in good condition. Pipe material is CMP and the flow is from the LS to the WS. (DWR Sutter Yard- A.Freitag) 05/31/2016 Crossing appears to be in good condition 05/04/2015 Crossing in good condition. No issues 06/17/2014 Same as last inspection 07/16/2013 Same as last inspection 12/16/2013 Same as last inspection FIELD_STRUCT_DESC: 60-inch drainage pipe through the levee, 22.1 feet below the crown. Concrete headwalls located on both the WS and landside (LS) toes. Slide gate and flap gate in 84-inch pipe riser located on the waterside (WS) slope. (60-inch pipe [HLM 0.00] authorized under Automatic Board Order (ABO) issued as Permit No. 9381, 1974 - Tribble). (60-inch pipe [HLM 0.00] authorized under Automatic Board Order (ABO) issued as Permit No. 8225, 1972 - Harold Baldson). [Additional Reference(s): DWR Levee Log, 2005 (HLM 0.00). USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019, (HLM 20.49 - RD 108), listed as 60-inch pipe. USACE As-Built Drawing No. 50-4-3081, Sheets 3 and 15, Station 1326+00, 4 April 1957]. FS Date: 3/4/2020 2:54:18 PM						

Photo 1 of 3 : UCIP_SP_2020_56156_83424.jpg



View of levee crown at the crossing looking downstream

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	0.01	Rating **	M	Issue No.	40 (cont)
LM End	0.01	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033999 °	39.033999 °
				-121.993375 °	-121.993375 °
DWR ID	17155				

Photo 2 of 3 : UCIP_SP_2020_56156_83425.jpg



84-inch CMP riser with slide gate on WS shoulder

LM Start	0.01	Rating **	M	Issue No.	40 (cont)
LM End	0.01	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_56156_83426.jpg



Drainage ditch on LS toe. Looking from levee crown

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	0.24	Rating **	M	Issue No.	41
LM End	0.24	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.035889 °	39.035889 °
				-121.996882 °	-121.996882 °
DWR ID	17145				

Comment Code

Inspector Comment

DS_ID:17145
FS_ID:56160
EP_NO: 9381
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 03/04/2020 Record remains Non-Urgent. Crossing appears abandoned. Unable to locate pipe appurtenances on waterside due to dense vegetation. Recommend geophysical study of this site. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP)
05/02/2017 Abandoned- needs to be done so properly. Only the LS standpipe was found. (DWR Sutter Yard- A.Freitag)
10/17/2016 Abandoned (DWR Sutter Yard- A.Freitag)
05/31/2016 Abandoned- only the LS concrete standpipe was found.
05/04/2015 Abandoned crossing.
06/17/2014 Same as last inspection.
12/16/2013 Same as last inspection.
07/16/2013 Same as last inspection.
10/11/2012 Need to verify proper abandonment of pipe. M(DWR - UCIP W.Wylie)
FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through the levee, 3 feet below the crown. Open on the waterside (WS) end. 3-foot by 6-foot concrete well on the WS berm. Siphon breaker in 24-inch riser located on the landside (LS) shoulder. 36-inch concrete standpipe on the LS toe. The only item identified is the 36-inch standpipe on the LS toe. (14-inch pipe [HLM 0.22] authorized under Automatic Board Order (ABO) issued as Permit No. 9381, 1974 - F. L. Tribble). (14-inch pipe [HLM 0.22] authorized under Automatic Board Order (ABO) issued as Permit No. 8226, 1972 - Jackson S. King). [Additional Reference(s): DWR Levee Log, 2005 (HLM 0.22). USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019, (HLM 0.22), listed 14-inch pipe. USACE As-Built Drawing No. 50-4-3081, Sheet 3 and 15, Station 1338+00, 4 April 1957].
FS Date: 3/4/2020 3:32:33 PM

Photo 1 of 3 : UCIP_SP_2020_56160_83444.jpg



Levee crown at the crossing looking downstream

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	0.24	Rating **	M	Issue No.	41 (cont)
LM End	0.24	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.035889 °	39.035889 °
				-121.996882 °	-121.996882 °
DWR ID	17145				

Photo 2 of 3 : UCIP_SP_2020_56160_83445.jpg



View of LS looking from levee crown

LM Start	0.24	Rating **	M	Issue No.	41 (cont)
LM End	0.24	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_56160_83446.jpg



View of WS looking from levee crown

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	0.49	Rating **	U	Issue No.	42
LM End	0.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.039413 °	39.039413 °
				-121.997766 °	-121.997766 °
DWR ID	17146				

Comment Code

Inspector Comment

DS_ID:17146
FS_ID:56161
EP_NO: 9382
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 03/04/2020 Record updated from Non-Urgent to Urgent. Pipe has been CIPP-lined under the DWR DMP Phase 2 Project. Flap gate not closing properly posing flood risk to the landside during flood season. LMA needs to repair or replace flap gate. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP)
05/02/2017 WS is in good condition. LS inlet is more than 50% full of sediment. Pipe needs to be cleaned internally. (DWR Sutter Yard- A.Freitag)
10/17/2016 Minor sediment blocking the WS flap gate from opening. LS inlet still mostly full of sediment.(DWR Sutter Yard- A.Freitag)
09/29/2016 Crossing has been downgraded from Urgent to Non-Urgent WS flap gate is closed for flood season. Need to coordinate with owner to remove sediment blocking WS flap gate. (DWR UCIP – O.Magana)
05/31/2016 WS flap gate is blocked from opening by sediment. LS inlet is over 50% full of sediment. (DWR Sutter Yard – A.Freitag)
05/04/2015 WS flap gate is blocked by sediment and unable to open. LS inlet is about 50% plugged with soil. Needs to be cleaned. (DWR Sutter Yard - A.Freitag)
06/17/2014 Same as last inspection. (DWR Sutter Yard - A.Freitag)
12/16/2013 Sediment against flapgate has been cleared and it can now function properly. (DWR Sutter Yard - A.Freitag)
07/16/2013 Sediment is built up against WS flapgate preventing it from opening. (DWR Sutter Yard – A.Freitag)
10/11/2012 Pipe is partially filled with soil. (DWR UCIP – W.Wylie)
FIELD_STRUCT_DESC: 24-inch corrugated metal CIPP-lined drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall, and grouted cobble spillway on the waterside (WS). Concrete headwall on the landside (LS). (24-inch pipe [HLM 0.49] authorized under Automatic Board Order (ABO) issued as Permit No. 9385, 1974 - Jackson S. King). (24-inch pipe [HLM 0.49] authorized under Automatic Board Order (ABO) issued as Permit No. 8226, 1972 - Jackson S. King). [Additional Reference(s): DWR Levee Log, 2005 (HLM 0.49). USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019, (HLM 0.49), listed as 24-inch pipe. USACE As-Built Drawing No. 50-4-3081, Sheet 3 and 15, Station 1355+75, 4 April 1957].
FS Date: 3/4/2020 8:34:44 AM

Photo 1 of 3 : UCIP_SP_2020_56161_83449.jpg



Levee crown at the crossing

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	0.49	Rating **	U	Issue No.	42 (cont)
LM End	0.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.039413 °	39.039413 °
				-121.997766 °	-121.997766 °
DWR ID	17146				

Photo 2 of 3 : UCIP_SP_2020_56161_83450.jpg



View of WS looking from levee crown

LM Start	0.49	Rating **	U	Issue No.	42 (cont)
LM End	0.49	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56161_83451.jpg



View of LS looking from levee crown

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	1.38	Rating **	M	Issue No.	43	
LM End	1.38	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.051280 °	39.051280 °	
				-122.002981 °	-122.002981 °	
DWR ID	17147					
Comment Code						
Inspector Comment						
DS_ID:17147 FS_ID:56166 EP_NO: 9382 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 03/04/2020 Record updated from No Action Needed to Non-Urgent. Pipe has been CIPP-lined under the DWR DMP Phase 2 Project. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP) 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag) 10/17/2016 Crossing appears to be in good condition. This is a gravity for the LS.(DWR Sutter Yard- A.Freitag) 05/31/2016 Crossing appears to be in good condition. 05/04/2015 Crossing is in good condition. No issues. 06/17/2014 Same as last inspection. 12/16/2013 Same as last inspection. 07/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal CIPP-lined drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall, and grouted cobble spillway on the waterside (WS). Concrete headwall on the landside (LS). (24-inch pipe [HLM 1.40] authorized under Automatic Board Order (ABO) issued as Permit No. 9382, 1974 - Olen C. Bober). (24-inch pipe [HLM 1.40] authorized under Automatic Board Order (ABO) issued as Permit No. 8228, 1972 - Olin C. Baber). [Additional Reference(s): DWR Levee Log, 2005 (HLM 1.40). USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019, (HLM 1.40), listed as 24-inch pipe. USACE As-Built Drawing No. 50-4-3081, Sheet 4 and 15, Station 1402+63, 4 April 1957]. FS Date: 3/4/2020 9:53:04 AM						

Photo 1 of 3 : UCIP_SP_2020_56166_83458.jpg



Levee crown at the crossing

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	1.38	Rating **	M	Issue No.	43 (cont)	
LM End	1.38	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.051280 °		39.051280 °
				-122.002981 °		-122.002981 °
DWR ID	17147					

Photo 2 of 3 : UCIP_SP_2020_56166_83459.jpg



View of LS looking from levee crown

LM Start	1.38	Rating **	M	Issue No.	43 (cont)
LM End	1.38	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56166_83460.jpg



View of WS looking from levee crown

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	1.51	Rating **	M	Issue No.	44
LM End	1.51	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.053074 °	39.053074 °
				-122.003157 °	-122.003157 °
DWR ID	17148				
Comment Code					
Inspector Comment					
DS_ID:17148 FS_ID:56167 EP_NO: 9382 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 03/04/2020 Record remains Non-Urgent. Need to have CVFPB review ABO and determine current owner. Taller grass observed along pipe alignment on WS slope. Pressure test or video inspection of crossing is recommended. (O.Yakimov - DWR UCIP) 05/02/2017 WS is being overgrown with vegetation. The rest of the crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag) 10/17/2016 Vegetation is overgrowing the WS head wall near the pump. The rest of the crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag) 05/31/2016 Crossing appears to be in good condition. 05/04/2015 Crossing appears in good condition. No noticeable issues to report. 06/17/2014 Same as last inspection. 12/16/2013 Same as last inspection. 07/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee, 3 feet below the crown. Pump, butterfly valve, and concrete headwall at the edge of the bank. Bank cobble revetted 10 feet on both the waterside (WS) and the landside (LS) of installation. 18-inch polyvinyl chloride (PVC) standpipe on the LS berm. Siphon breaker in 18-inch concrete riser on the LS shoulder. Service pole at the edge of the bank. (24-inch pipe [HLM 1.53] authorized under Automatic Board Order (ABO) issued as Permit No. 9382, 1974 - Olen C. Bober). (18-inch pipe [HLM 1.53] authorized under Automatic Board Order (ABO) issued as Permit No. 8228, 1972 - Olin C. Baber). [Additional Reference(s): DWR Levee Log, 2005 (HLM 1.53), listed as 18-inch pipe. USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019, (HLM 1.53). USACE As-Built Drawing No. 50-4-3081, Sheet 4 and 15, Station 1409+25, 4 April 1957]. FS Date: 3/4/2020 10:15:09 AM					

Photo 1 of 3 : UCIP_SP_2020_56167_83466.jpg



View of levee crown at the crossing looking downstream

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	1.51	Rating **	M	Issue No.	44 (cont)
LM End	1.51	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.053074 °	39.053074 °
				-122.003157 °	-122.003157 °
DWR ID	17148				

Photo 2 of 3 : UCIP_SP_2020_56167_83467.jpg



View of WS looking from crown

LM Start	1.51	Rating **	M	Issue No.	44 (cont)
LM End	1.51	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_56167_83468.jpg



View of LS looking from crown

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	1.69	Rating **	M	Issue No.	45
LM End	1.69	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.055711 °	39.055711 °
				-122.003252 °	-122.003252 °
DWR ID	17149				

Comment Code

Inspector Comment

DS_ID:17149
FS_ID:56168
EP_NO: 9382
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 03/04/2020 Record remains Non-Urgent. Pipe has been CIPP-lined and new flap gate installed under the DWR DMP Phase 2 Project. Vegetation around flap gate was cleared. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP)
05/02/2017 WS flapgate buried by sediment. Needs to be dug out. (DWR Sutter Yard- A.Freitag)
10/17/2016 Crossing appears to be in good condition. This is a gravity drain for the LS. (DWR Sutter Yard- A.Freitag)
05/31/2016 LS inlets was partially plugged. WS flapgate was clear of sediment and able to operate properly.
05/04/2015 WS flapgate is blocked by sediment and unable to open. LS inlet is plugged by silt and wood chippings. Needs to be cleaned.
06/17/2014 Flap gate was cleaned out and is fully closed. LS inlet still partially full of soil.
12/16/2013 Same as last inspection. WS flapgate still needs to be cleaned out and shut.
07/16/2013 Same as last inspection. Make sure flapgate is closed before highwater season.
10/11/2012 Inlet on LS filled partially with soil. Outlet blocked with soil and the flap gate won't close. (W. Wylie - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal CIPP-lined drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall, and grouted cobble spillway on the waterside (WS). Concrete headwall on the landside (LS). (24-inch pipe [HLM 1.72] authorized under Automatic Board Order (ABO) issued as Permit No. 9382, 1974 - Olen C. Bober). (24-inch pipe [HLM 1.72] authorized under Automatic Board Order (ABO) issued as Permit No. 8228, 1972 - Olin C. Baber).
[Additional Reference(s): DWR Levee Log, 2005 (HLM 1.72). USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019, (HLM 1.72), listed as 24-inch pipe. USACE As-Built Drawing No. 50-4-3081, Sheet 4, Station 1419+25 (construction detail same as 1434+10), 4 April 1957].
FS Date: 3/4/2020 10:42:45 AM

Photo 1 of 3 : UCIP_SP_2020_56168_83473.jpg



View of levee crown at the crossing looking downstream

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	1.69	Rating **	M	Issue No.	45 (cont)	
LM End	1.69	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.055711 °	39.055711 °	
				-122.003252 °	-122.003252 °	
DWR ID	17149					

Photo 2 of 3 : UCIP_SP_2020_56168_83474.jpg



View of WS looking from levee crown

LM Start	1.69	Rating **	M	Issue No.	45 (cont)
LM End	1.69	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56168_83475.jpg



View of LS looking from levee crown

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	1.77	Rating **	U	Issue No.	46
LM End	1.77	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.056847 °	39.056847 °	
			-122.003288 °	-122.003288 °	
DWR ID	17150				

Comment Code

Inspector Comment

DS_ID:17150
FS_ID:56171
EP_NO: 9387
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 03/04/2020 Record updated from No Action Needed to Urgent. Flap gate at WS levee toe not closing tightly leaving a gap for water to enter a part of crossing up to slide gate. Since slide gate on WS shoulder is in open position, this can pose flood risk to the landside during high water events. Recommend LMA to repair flap gate before next flood season. Pipe inlet near LS levee toe not found. Crossing appears abandoned. Concrete standpipe observed on landside 1,400 feet east of levee that seem to belong to the drainage system. Abandoned pump in irrigation/drainage canal 1,750 feet east of levee found. Recommend geophysical study to determine alignment of pipe through the levee. Need to have CVFPB review ABO and determine current owner. Need to contact owner to determine status of crossing. (O.Yakimov - DWR UCIP)
05/02/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)
10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)
05/31/2016 Crossing appears to be in good condition. Attached photo showing location of LS inlet.
05/04/2015 WS flapgate mostly underwater but could tell it was blocked open by something. LS inlet is located about 1/4 mile north along the side of the roadway.
06/17/2014 Same as last inspection.
12/16/2013 Pipe was flowing water and flap gate was being pushed open. Cannot verify if it will close all the way.
07/16/2013 Same as last inspection. Was told inlet is about 1/4 mile down road way next to house. Will try to get coordinates for inlet.
10/11/2012 No inlet could be located on LS. Flap gate partially blocked and will not close completely. (W. Wylie - DWR UCIP)
FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 20 feet below the crown. Slide gate in 60-inch riser on the waterside (WS) slope. Flap gate and concrete headwall on the WS. Concrete standpipe on landside 1,400 feet east of levee, pump in drainage canal 1,750 feet east of levee. (48-inch pipe [HLM 1.80] authorized under Automatic Board Order (ABO) issued as Permit No. 9387, 1974 - Lauretta S. Christenson). (48-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 8229, 1972 - Beatrice Sherer). [Additional Reference(s): DWR Levee Log, 2005 (HLM 1.81). USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019 (HLM 1.8), listed as 48-inch pipe. USACE As-Built Drawing No. 50-4-3081, Sheet 4 and 18, Station 1423+00, 4 April 1957].

Photo 1 of 3 : UCIP_SP_2020_56171_83485.jpg



View of levee crown at crossing looking downstream

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

FS Date: 3/4/2020 11:30:34 AM

LM Start	1.77	Rating **	U	Issue No.	46 (cont)
LM End	1.77	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2020_56171_83486.jpg



60-inch standpipe with slide gate on WS slope with outlet in background.

LM Start	1.77	Rating **	U	Issue No.	46 (cont)
LM End	1.77	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56171_83487.jpg



View of LS slope looking from levee crown. PVC pipe in the field doesn't belong to this crossing

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	1.98	Rating **	M	Issue No.	47
LM End	1.98	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.059773 °	39.059773 °
				-122.004391 °	-122.004391 °
DWR ID	17151				

Comment Code

Inspector Comment

DS_ID:17151
FS_ID:56172
EP_NO: 9391
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 03/04/2020 Record remains Non-Urgent. Need to have CVFPB review ABO and determine current owner. Crossing appears abandoned. Both end of crossing are buried. Recommend performing maintenance of the crossing. (O.Yakimov - DWR UCIP) 5/2/2017 Both ends of pipe buried. (DWR Sutter Yard - AFreitag)10/17/2016 Appears abandoned. Both pipe ends are completely buried. (DWR Sutter Yard - AFreitag)9/29/2016 Crossing has been downgraded from Urgent to Non-Urgent both pipe ends are buried. Having both ends buried prevents water from flowing from WS to LS during flood season. Need to contact owner and have owner coordinate with CVFPB to comply with Title 23. (DWR UCIP - omagana)5/31/2016 Both pipe ends are buried. Pipe is non-operational. (DWR Sutter Yard - afreitag)5/4/2015 LS and WS ends are blocked with soil. Pipe is inoperable as it is. (DWR Sutter Yard - afreitag)6/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/16/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/16/2013 LS inlet is completely filled with soil. Needs to be cleaned out. (DWR Sutter Yard - afreitag)10/11/2012 Inlet is partially filled with soil. (DWR Sutter Yard - wylie)
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate, concrete headwall, and grouted cobble spillway on the waterside (WS). Concrete headwall on the landside (LS). (24-inch pipe [HLM 2.02] authorized under Automatic Board Order (ABO) issued as Permit No. 9387, 1974 - Department of Water Resources, Northern District). (24-inch pipe [HLM 2.02] authorized under Automatic Board Order (ABO) issued as Permit No. 8230, 1972 - Jack Baber). [Additional Reference(s): DWR Levee Log, 2005 (HLM 2.02). USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019, (HLM 2.02), listed as 24-inch pipe. USACE As-Built Drawing No. 50-4-3081, Sheet 4, Station 1434+10, 4 April 1957].
FS Date: 3/4/2020 1:38:05 PM

Photo 1 of 3 : UCIP_SP_2020_56172_83501.jpg



View of levee crown at the crossing looking downstream

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	1.98	Rating **	M	Issue No.	47 (cont)	
LM End	1.98	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.059773 °	39.059773 °	
				-122.004391 °	-122.004391 °	
DWR ID	17151					

Photo 2 of 3 : UCIP_SP_2020_56172_83500.jpg



View of WS looking from levee crown

LM Start	1.98	Rating **	M	Issue No.	47 (cont)
LM End	1.98	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56172_83499.jpg



View of LS looking from levee crown

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	2.14	Rating **	M	Issue No.	48	
LM End	2.14	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.062040 °	39.062040 °	
				-122.005310 °	-122.005310 °	
DWR ID	17152					
Comment Code						
Inspector Comment						
DS_ID:17152 FS_ID:56173 EP_NO: 9319 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 03/04/2020 Record updated from No Action Needed to Non-Urgent. Metal debris observed at LS levee toe considered trip and fall safety hazard. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP) 05/02/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag) 10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag) 05/31/2016 Crossing appears to be in good condition. 05/04/2015 Crossing appears in good condition. No noticeable issues. 06/17/2014 Same as last inspection. 12/16/2013 Same as last inspection. 07/16/2013 Same as last inspection FIELD_STRUCT_DESC: 60-inch corrugated metal irrigation pipe through the levee, 22.7 feet below the crown. Slide gate in a 84-inch corrugated metal riser on the waterside (WS) slope. Three pumps over a sump, and distribution box on the landside (LS). Concrete headwall on the WS. (60-inch pipe [HLM 2.19] authorized under Automatic Board Order (ABO) issued as Permit No. 9319, 1974 - Frederick J. Strain). (60-inch pipe [HLM 2.19] authorized under Automatic Board Order (ABO) issued as Permit No. 8230, 1972 - Jack Baber). [Additional Reference(s): DWR Levee Log, 2005 (HLM 2.19). USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019, (HLM 2.19), listed as 60-inch pipe. USACE As-Built Drawing No. 50-4-3081, Sheet 4 and 15, Station 1443+00, 4 April 1957]. FS Date: 3/4/2020 1:48:07 PM						

Photo 1 of 3 : UCIP_SP_2020_56173_83505.jpg



View of levee crown at the crossing

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	2.14	Rating **	M	Issue No.	48 (cont)
LM End	2.14	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.062040 °	39.062040 °	
			-122.005310 °	-122.005310 °	
DWR ID	17152				

Photo 2 of 3 : UCIP_SP_2020_56173_83506.jpg



84-inch CMP riser with slide gate on WS shoulder

LM Start	2.14	Rating **	M	Issue No.	48 (cont)
LM End	2.14	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_56173_83507.jpg



3 pumps, concrete distributionbox, power pole with electrical panel on LS

LM Start	2.59	Rating **	U	Issue No.	1
LM End	3.68	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.067419 °	39.081684 °
				-122.009699 °	-122.016243 °
DWR ID	DWR_MA0012_01_s_2019_1				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2020_MA0012_299_1_20200228_00001.jpg



View of a ditch along the landside toe. Fall 2016.

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	3.15	Rating **	M	Issue No.	49
LM End	3.15	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.074151 °	39.074151 °
				-122.014960 °	-122.014960 °
DWR ID	17153				

Comment Code

Inspector Comment

DS_ID:17153
FS_ID:56175
EP_NO: 9384
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 03/05/2020 Record updated from No Action Needed to Non-Urgent. Sediment at LS headwall, vegetation at WS headwall need to be cleared. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP)
05/02/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)
10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)
05/31/2016 Crossing appears to be in good condition.
05/04/2015 Crossing appears in good condition. No noticeable issues.
06/17/2014 Same as last inspection.
12/16/2013 Same as last inspection.
07/16/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 16 feet below the crown. Flap gate, concrete headwall, and grouted cobble spillway on the waterside (WS). Concrete headwall on the landside (LS). (24-inch pipe [HLM 3.22] authorized under Automatic Board Order (ABO) issued as Permit No. 9384, 1974 - William D. Struckmeyer). (24-inch pipe [HLM 3.22] authorized under Automatic Board Order (ABO) issued as Permit No. 8231, 1972 - Roy E. Kitts). [Additional Reference(s): DWR Levee Log, 2005 (HLM 3.22). USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019, (HLM 3.22), listed as 24-inch pipe. USACE As-Built Drawing No. 50-4-3081, Sheet 5 and 15, Station 1495+75, 4 April 1957].
FS Date: 3/5/2020 3:09:34 PM

Photo 1 of 3 : UCIP_SP_2020_56175_83514.jpg



View of levee crown at the crossing

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	3.15	Rating **	M	Issue No.	49 (cont)
LM End	3.15	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.074151 °	39.074151 °
				-122.014960 °	-122.014960 °
DWR ID	17153				

Photo 2 of 3 : UCIP_SP_2020_56175_83515.jpg



View of WS looking from levee crown

LM Start	3.15	Rating **	M	Issue No.	49 (cont)
LM End	3.15	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56175_83516.jpg



View of LS looking from levee crown

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	3.69	Rating **	M	Issue No.	50
LM End	3.69	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.081949 °	39.081949 °	
			-122.016179 °	-122.016179 °	
DWR ID	17154				

Comment Code

Inspector Comment

DS_ID:17154
FS_ID:56176
EP_NO: 9388
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 03/05/2020 Record remains Non-Urgent. New cover on CMP riser has been installed. Piping around slide gate at LS toe was modified, new 14-inch pipes installed. Unable to locate a permit for system modification. New steel walkway to slide gate on LS. Need to coordinate with LMA for find a permit authorizing modification. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP)
10/05/2018 Fall hazard: missing cover on CMP riser. Closure devices are present on both ends of crossing and seem to be in operable condition. Downgraded to non-urgent. Recommend owner add cover to CMP riser. (O.Yakimov - DWR UCIP)
05/02/2017 WS slide gate stem is still bent, wheel to operate gate is missing. Needs a cover made for the standpipe to prevent falls. (DWR Sutter Yard- A.Freitag)
10/17/2016 Slide gate stem is still and the gate appears to be inoperable. (DWR Sutter Yard- A.Freitag)
05/31/2016 Slide gate stem is still bent. WS flap gate is chained open. (DWR Sutter Yard - A.Freitag)
05/04/2015 Slide gate stem is still bent. Gate looks to be unable to close all the way. (DWR Sutter Yard – A.Freitag)
06/17/2014 Same as last inspection. (DWR Sutter Yard – A.Freitag)
12/16/2013 Slide gate stem is still bent. WS flapgate was closed. (DWR Sutter Yard - A.Freitag)
07/16/2013 Water flowing through pipe so screw gate definitely not closed. Was told NOV's have been sent for owner to replace stem. Flap gate gets closed for flood season. (DWR Sutter Yard - A.Freitag)
10/11/2012 Slide gate inoperable, but appears to be in closed position. Flap gate held in open position. Good candidate for video inspection when, if ever, dry. (DWR UCIP – W.Wylie)
FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 28 feet below the crown. Slide gate in a 66-inch riser on the waterside (WS) slope. Concrete headwall on the WS. Grouted cobble spillway from drainage ditch to large canal on the landside (LS). (48-inch pipe [HLM 3.78] authorized under Automatic Board Order (ABO) issued as Permit No. 9388, 1974 - Pauline A. Wallace). (48-inch pipe [HLM 3.78] authorized under Automatic Board Order (ABO) issued as Permit No. 8231, 1972 - Roy E. Kitts). [Additional Reference(s): DWR Levee Log, 2005 (HLM 3.78). USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019, (HLM 3.78), listed as 48-inch pipe. USACE As-Built Drawing No. 50-4-3081, Sheet 5 and 15, Station 1524+75, 4 April 1957].
FS Date: 3/5/2020 3:10:51 PM

Photo 1 of 3 : UCIP_SP_2020_56176_83526.jpg



View of levee crown at the crossing looking downstream

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	3.69	Rating **	M	Issue No.	50 (cont)
LM End	3.69	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2020_56176_83527.jpg



View of LS looking from levee crown

LM Start	3.69	Rating **	M	Issue No.	50 (cont)
LM End	3.69	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56176_83528.jpg



View of WS looking from levee crown. CMP riser with slide gate on WS shoulder

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	4.06	Rating **	U	Issue No.	51
LM End	4.06	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.087136 °	39.087136 °
				-122.015201 °	-122.015201 °
DWR ID	17186				

Comment Code

Inspector Comment

DS_ID:17186
FS_ID:56159
EP_NO: 16874
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 03/05/2020 Record updated from No Action Needed to Urgent. Pipe exposed due to unauthorized excavation on WS berm 25 feet from WS toe. Excavation measures 12' x 15' x 4.5' deep. Broken PVC riser on LS shoulder and leaking siphon breaker inside of PVC riser. (O.Yakimov - DWR UCIP) 5/2/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)
10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)
05/31/2016 Crossing appears to be in good condition.
05/04/2015 Crossing appears to be in good condition. No noticeable issues to report.
06/17/2014 Same as last inspection.
12/16/2013 Same as last inspection.
07/16/2013 Same as last inspection.
FIELD_STRUCT_DESC: 36-inch asphalt coated steel irrigation pipe through the levee, 2.0 feet below the crown. Pump facility located on the waterside (WS). Siphon breaker in an 18-inch polyvinyl chloride (PVC) riser located on the landside (LS) shoulder. 40-foot tall, 8-foot by 8-foot concrete tower, 50 feet from the LS toe. (36-inch pipeline authorized under Permit No. 16874, 1998 - Wallace Brothers).
FS Date: 3/5/2020 11:42:53 AM

LM Start	4.06	Rating **	U	Issue No.	51 (cont)
LM End	4.06	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_56159_83433.jpg



View of levee crown at the crossing looking downstream

Photo 2 of 3 : UCIP_SP_2020_56159_83434.jpg



View of LS looking from levee crown

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	4.06	Rating **	U	Issue No.	51 (cont)	
LM End	4.06	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.087136 °	39.087136 °	
				-122.015201 °	-122.015201 °	
DWR ID	17186					

Photo 3 of 3 : UCIP_SP_2020_56159_83436.jpg



View of WS looking from levee crown

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	4.15	Rating **	M	Issue No.	52
LM End	4.15	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.088561 °	39.088561 °
				-122.015179 °	-122.015179 °
DWR ID	17168				

Comment Code

Inspector Comment

DS_ID:17168
FS_ID:56177
EP_NO: 9388
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 03/05/2020 Record updated from No Action Needed to Non-Urgent. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP)
05/02/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)
10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)
05/31/2016 Crossing appears to be in good condition.
05/04/2015 Crossing appears to be in good condition. No noticeable issues to report.
06/17/2014 Same as last inspection.
12/16/2013 Same as last inspection.
07/16/2013 Same as last inspection.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 27.5 feet below the crown. Flap gate, concrete headwall, and grouted cobble spillway located on the waterside (WS). Concrete headwall located on the landside (LS). (24-inch pipe [HLM 4.25] authorized under Automatic Board Order (ABO) issued as Permit No. 9388, 1974 - Pauline A. Wallace). (24-inch pipe [HLM 4.25] authorized under Automatic Board Order (ABO) issued as Permit No. 8232, 1972 - Pauline Wallace Estates). [Additional Reference(s): DWR Levee Log, 2005 (HLM 4.25). USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019, (HLM 4.25), listed as 36-inch pipe. USACE As-Built Drawing No. 50-4-3081, Sheet 6 and 16, Station 1548+95, 4 April 1957].
FS Date: 3/5/2020 7:28:07 AM

Photo 1 of 3 : UCIP_SP_2020_56177_83531.jpg



View of levee crown at the crossing looking downstream

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	4.15	Rating **	M	Issue No.	52 (cont)
LM End	4.15	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.088561 °	39.088561 °
				-122.015179 °	-122.015179 °
DWR ID	17168				

Photo 2 of 3 : UCIP_SP_2020_56177_83532.jpg



View of WS looking from levee crown

LM Start	4.15	Rating **	M	Issue No.	52 (cont)
LM End	4.15	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56177_83533.jpg



View of LS looking from levee crown

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	4.22	Rating **	M	Issue No.	53
LM End	4.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.089551 °	39.089551 °
				-122.015241 °	-122.015241 °
DWR ID	17156				
Comment Code					
Inspector Comment					
DS_ID:17156 FS_ID:56179 EP_NO: 9388 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 03/05/2020 Record updated from No Action Needed to Non-Urgent. Modifications to the system done: 24-inch steel pipe connected to a CMP pipe at LS toe, pump in irrigation canal on LS. Unable to find pump system in O&M drawings. Steel pipe is currently disconnected from the pump in irrigation canal. Unable to locate a permit authorizing modifications. Need to have CVFPB review ABO and determine current owner. Pipe outlet on WS not found due to dense vegetation. (O.Yakimov - DWR UCIP) 05/02/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag) 10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag) 05/31/2016 Crossing appears to be in good condition. 05/04/2015 Crossing appears to be in good condition. No noticeable issues to report. 06/17/2014 Same as last inspection. 12/16/2013 Same as last inspection. 07/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.2 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pump on a 60-inch concrete standpipe at the landside (LS) toe. (24-inch pipe [HLM 4.32] authorized under Automatic Board Order (ABO) issued as Permit No. 9388, 1974 - Pauline A. Wallace). [Additional Reference(s): DWR Levee Log, 2005 (HLM 4.32). USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019, (HLM 4.32), listed as 24-inch pipe. USACE As-Built Drawing No. 50-4-3081, Sheet 6 and 19, Station 1552+62, 4 April 1957]. FS Date: 3/5/2020 7:33:33 AM					

Photo 1 of 3 : UCIP_SP_2020_56179_83540.jpg



View of levee crown at the crossing looking downstream

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	4.22	Rating **	M	Issue No.	53 (cont)
LM End	4.22	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.089551 °	39.089551 °	
			-122.015241 °	-122.015241 °	
DWR ID	17156				

Photo 2 of 3 : UCIP_SP_2020_56179_83545.jpg



View of WS slope looking from levee toe

LM Start	4.22	Rating **	M	Issue No.	53 (cont)
LM End	4.22	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56179_83544.jpg



CMP pipe daylights on WS slope

LM Start	4.72	Rating **	M	Issue No.	4
LM End	4.77	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.096839 °	39.097455 °
				-122.015568 °	-122.015581 °
DWR ID	DWR_MA0012_01_s_2012_4				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2020_MA0012_299_4_20200228_00002.jpg



View of a ditch along the landside toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	4.76	Rating **	M	Issue No.	54	
LM End	4.76	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.097378 °	39.097378 °	
				-122.015560 °	-122.015560 °	
DWR ID	17158					
Comment Code						
Inspector Comment						
DS_ID:17158 FS_ID:56180 EP_NO: 9390 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 03/05/2020 Record updated from No Action Needed to Non-Urgent. Pump in drainage ditch and standpipe are not designed per O&M As-Built drawing. Unable to locate a permit for modifications. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP) 05/02/2017 Crossing appears to be in good condition. There is minor sediment build up in front of the WS flap gate/ (DWR Sutter Yard-A.Freitag) 10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag) 05/31/2016 Crossing appears to be in good condition. 05/04/2015 Crossing appears to be in good condition. No noticeable issues to report. 06/17/2014 Same as last inspection. 12/16/2013 Same as last inspection. 07/16/2013 New flapgate installed on WS pipe end. 10/11/2012 Flap gate broken on WS, Pipe shows significant rust at outlet. This is a good candidate for video inspection. (DWR UCIP – W.Wylie) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe though the levee, 20 feet below the crown. Pump on metal pier in landside (LS) channel. 40-inch steel standpipe at the LS toe. Flap gate and concrete headwall on the waterside (WS). Concrete headwall on the LS. (36-inch pipe [HLM 4.87] authorized under Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Annie D. Propfe). (24-inch pipe [HLM 4.87] authorized under Automatic Board Order (ABO) issued as Permit No. 8233, 1972 - Olive P. Davis Estate). [Additional Reference(s): DWR Levee Log, 2005 (HLM 4.87). USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019, (HLM 4.87), listed as 36-inch pipe. USACE As-Built Drawing No. 50-4-3081, Sheet 6 and 16, Station 1581+10, 4 April 1957]. FS Date: 3/5/2020 7:55:59 AM						

Photo 1 of 3 : UCIP_SP_2020_56180_83547.jpg



View of levee crown at the crossing looking downstream

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	4.76	Rating **	M	Issue No.	54 (cont)
LM End	4.76	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.097378 °	39.097378 °	
			-122.015560 °	-122.015560 °	
DWR ID	17158				

Photo 2 of 3 : UCIP_SP_2020_56180_83548.jpg



View of LS looking from levee crown

LM Start	4.76	Rating **	M	Issue No.	54 (cont)
LM End	4.76	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56180_83549.jpg



View of WS looking from levee crown

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	5.01	Rating **	M	Issue No.	55 (cont)
LM End	5.01	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.100898 °	39.100898 °	
			-122.016078 °	-122.016078 °	
DWR ID	17191				

Photo 2 of 3 : UCIP_SP_2020_56181_83558.jpg



View of WS slope looking from levee toe

LM Start	5.01	Rating **	M	Issue No.	55 (cont)
LM End	5.01	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56181_83556.jpg



View of LS looking from levee crown

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	5.90	Rating **	M	Issue No.	56
LM End	5.90	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.113840 °	39.113840 °
				-122.017736 °	-122.017736 °
DWR ID	17190				

Comment Code

Inspector Comment

DS_ID:17190
FS_ID:56182
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 03/03/2020 Record updated from No Action Needed to Non-Urgent. Modifications to the crossings: pump and a standpipe connected to the crossing located in drainage ditch that were not included in original O&M design. Supply pipe is currently disconnected from the pump. Unable to locate a permit authorizing modifications. Recommend internal inspection of crossing. Two soil depression spots apparently from a truck crane found on LS slope and LS berm. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP)
05/02/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)
10/17/2016 Crossing appears to be in good condition. Pipe was field verified to be 48-inch CMP. (DWR Sutter Yard- A.Freitag)
05/31/2016 Crossing appears to be in good condition.
05/04/2015 Crossing appears to be in good condition. No noticeable issues to report.
06/17/2014 Same as last inspection.
12/16/2013 Same as last inspection.
07/16/2013 Same as last inspection.
FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, approximately 22 feet below the crown. Concrete headwalls at both the waterside (WS) and the landside (LS) ends with flap gate on the WS. 36-inch corrugated metal pipe (CMP) riser on the LS toe with steel pipe extension for overflow weir of LS ditch. Walkway and pump not associated with this crossing. (36-inch drainage pipe [HLM 6.04] authorized under Automatic board order (ABO) issued as Permit No. 8234, 1972 - Glenn Irrigation District, and (ABO) Permit No. 9390, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005 (HLM 6.04), listed as 36-inch pipe. USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019, (HLM 6.04), listed as 48-inch pipe. USACE As-Built Drawing No. 50-4-3081, Sheet 7 and 16, Station 1646+00, 4 April 1957].
FS Date: 3/3/2020 11:12:39 AM

Photo 1 of 3 : UCIP_SP_2020_56182_83561.jpg



View of levee crown at the crossing looking downstreams

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	5.90	Rating **	M	Issue No.	56 (cont)
LM End	5.90	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.113840 °	39.113840 °
				-122.017736 °	-122.017736 °
DWR ID	17190				

Photo 2 of 3 : UCIP_SP_2020_56182_69032.jpg



Flap gate in concrete U-shaped headwall at WS toe.

LM Start	5.90	Rating **	M	Issue No.	56 (cont)
LM End	5.90	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56182_83562.jpg



View of LS looking from levee crown

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	5.96	Rating **	M	Issue No.	57	
LM End	5.96	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.114633 °	39.114633 °	
				-122.017848 °	-122.017848 °	
DWR ID	17161					
Comment Code						
Inspector Comment						
DS_ID:17161 FS_ID:56183 EP_NO: 9390 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 03/03/2020 Record updated from No Action Needed to Non-Urgent. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP) 05/02/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag) 10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag) 05/31/2016 Crossing appears to be in good condition. 05/04/2015 Crossing appears to be in good condition. No noticeable issues to report. 06/17/2014 Same as last inspection. 12/16/2013 Same as last inspection. 07/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 20.3 feet below the crown. Concrete headwall and cobble revetted spillway on the waterside (WS). Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the WS slope. Concrete headwall located on the landside (LS). (48-inch pipe [HLM 6.10] authorized under Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Annie D. Propfe). (58-inch pipe [HLM 6.1] authorized under Automatic Board Order (ABO) issued as Permit No. 8234, 1972 - Glenn Irrigation District). [Additional Reference(s): DWR Levee Log, 2005(HLM 6.10). USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019, (HLM 6.10), listed as 48-inch pipe. USACE As-Built Drawing No. 50-4-3081, Sheet 7 and 16, Station 1648+88.2, 4 April 1957]. FS Date: 3/3/2020 1:07:35 PM						

Photo 1 of 3 : UCIP_SP_2020_56183_83569.jpg



View of levee crown at the crossing looking downstream

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	5.96	Rating **	M	Issue No.	57 (cont)
LM End	5.96	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.114633 °	39.114633 °
				-122.017848 °	-122.017848 °
DWR ID	17161				

Photo 2 of 3 : UCIP_SP_2020_56183_83570.jpg



View of LS looking from levee crown

LM Start	5.96	Rating **	M	Issue No.	57 (cont)
LM End	5.96	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56183_83571.jpg



View of WS looking from levee crown

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	5.98	Rating **	M	Issue No.	58
LM End	5.98	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.114977 °	39.114977 °	
			-122.017947 °	-122.017947 °	
DWR ID	17199				

Comment Code

Inspector Comment

DS_ID:17199
FS_ID:56186
EP_NO: 9390
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 03/03/2020 Record remains Non-Urgent. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP)
05/02/2017 Pipe appears to be in good condition. Minor erosion above the LS pump house. (DWR Sutter Yard- A.Freitag)
10/17/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A.Freitag)
05/31/2016 Crossing appears to be in good condition.
05/04/2015 Crossing appears to be in good condition. No noticeable issues to report.
06/17/2014 Same as last inspection.
12/16/2013 Same as last inspection.
07/16/2013 Same as last inspection. (DWR UCIP – W.Wylie)
FIELD_STRUCT_DESC: 3 of 3: 18-inch steel drainage pipe through the levee, 4.4 feet below the crown. Cobble revetted sump located on the waterside (WS). Siphon breaker in a 16-inch metal riser on the WS shoulder. Pump house at the landside (LS) toe. (18-inch pipe [HLM 6.13] authorized under Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005 (HLM 6.13). USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019, (HLM 6.13), listed as 3-18" pipes. Pipe not included to original USACE As-Built Drawing No. 50-4-3081.
FS Date: 3/3/2020 3:08:38 PM

Photo 1 of 3 : UCIP_SP_2020_56186_83594.jpg



View of levee crown at the crossing looking downstream

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	5.98	Rating **	M	Issue No.	58 (cont)
LM End	5.98	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.114977 °	39.114977 °
				-122.017947 °	-122.017947 °
DWR ID	17199				

Photo 2 of 3 : UCIP_SP_2020_56186_83595.jpg



View of WS looking from levee crown

LM Start	5.98	Rating **	M	Issue No.	58 (cont)
LM End	5.98	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56186_83596.jpg



View of LS looking from levee crown. Pumphouse with 3 pumps at LS toe

LM Start	6.02	Rating **	U	Issue No.	37
LM End	7.20	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.115518 °	39.131618 °
				-122.017908 °	-122.022785 °
DWR ID	DWR_MA0012_01_f_2018_37				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2020_MA0012_299_37_20200228_00007.jpg



View of a ditch along the landside toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	7.58	Rating **	M	Issue No.	59
LM End	7.58	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.137187 °	39.137187 °
				-122.022793 °	-122.022793 °
DWR ID	17163				
Comment Code					
Inspector Comment					
DS_ID:17163 FS_ID:56187 EP_NO: 9390 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 03/03/2020 Record remains Non-Urgent. Pipe is plate welded over both ends. Rodent burrows under pipe on WS. Crossing appears abandoned. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP) 05/02/2017 Appears abandoned- pipe capped on both ends. Should be removed. (DWR Sutter Yard- A.Freitag) 10/17/2016 Appears abandoned and should be removed. (DWR Sutter Yard- A.Freitag) 05/31/2016 Appears to be abandoned. Pipe is capped on both WS and LS ends. 05/04/2015 Crossing appears to be in good condition. No noticeable issues to report. 06/17/2014 Same as last inspection. 12/16/2013 Same as last inspection. 07/16/2013 Same as last inspection. 10/11/2012 Rodent burrowing along sides of pipe on LS. (DWR UCIP – W.Wylie) FIELD_STRUCT_DESC: 24-inch steel irrigation pipe through the levee, 3 feet below the crown. Both ends capped, terminating on levee slopes. (24-inch pipe [HLM 7.76] authorized under Automatic Board Order (ABO) issued as Permit No. 9390, 1974 -Annie D. Propfe). (24-inch pipe [HLM 7.76] authorized under Automatic Board Order (ABO) issued as Permit No. 8233, 1972 - Olive P. Davis Estate). [Additional Reference(s): DWR Levee Log, 2005 (HLM 7.76). USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019, (HLM 7.76), listed as 24-inch pipe. USACE As-Built Drawing No. 50-4-3081, Sheet 8 and 16, Station 1734+67.5, 1/4-inch cover plate continuously welded over each end, 4 April 1957]. FS Date: 3/3/2020					

Photo 1 of 3 : UCIP_SP_2020_56187_83602.jpg



View of levee crown at crossing looking downstream

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	7.58	Rating **	M	Issue No.	59 (cont)
LM End	7.58	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.137187 °	39.137187 °	
			-122.022793 °	-122.022793 °	
DWR ID	17163				

Photo 2 of 3 : UCIP_SP_2020_56187_83603.jpg



View of LS looking from levee crown

LM Start	7.58	Rating **	M	Issue No.	59 (cont)
LM End	7.58	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_56187_83604.jpg



View of WS looking from levee crown

LM Start	9.02	Rating **	A/W	Issue No.	35
LM End	9.04	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			39.157957 °	39.158226 °
				-122.021950 °	-122.021950 °
DWR ID	DWR_MA0012_01_f_2018_35				
Comment Code					
Inspector Comment					
2017 Site ID: SYC 9.3 L					
Status: Eroding					
2017 Field Notes: Access Issues - Could not observe					
Site History: 2011 - Erosion occurring upstream and downstream of an irrigation diversion structure.					

Photo 1 of 2 : SP_2020_MA0012_299_35_20200228_00005.jpg



View of diversion structure. Fall 2018.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	9.02	Rating **	A/W	Issue No.	35 (cont)
LM End	9.04	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			39.157957 °	39.158226 °
				-122.021950 °	-122.021950 °
DWR ID	DWR_MA0012_01 f _ 2018_35				

Photo 2 of 2 : SP_2020_MA0012_299_35_20200228_00006.jpg



Upstream view of Colusa Basin from the diversion structure. Fall 2018.

LM Start	9.02	Rating **	M	Issue No.	60
LM End	9.02	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.158033 °	39.158033 °
				-122.021701 °	-122.021701 °
DWR ID	17164				

Comment Code

Inspector Comment

DS_ID:17164
 FS_ID:56188
 EP_NO: 9390
 Repair Type: Non-Urgent
 Crossing Status: Not Found
 UCIP Comments: 03/03/2020 Record updated from No Action Needed to Non-Urgent. Crossing not found. Unauthorized encroachment recorded in Levee Log prior to 2011. Recommend geophysical study. Suspect that this pipe is the same record as DSID 17189. (O.Yakimov - DWR UCIP)
 05/02/2017 Unable to locate. (DWR Sutter Yard- A.Freitag)
 10/17/2016 Unable to locate. (DWR Sutter Yard- A.Freitag)
 05/31/2016 Unable to locate.
 05/04/2015 Unable to locate.
 06/17/2014 Unable to locate.
 12/16/2013 Unable to locate.
 07/16/2013 Same as last inspection. Unable to locate.
 FIELD_STRUCT_DESC: 24-inch drainage pipe through the levee, 3 feet below the crown. Capped on both waterside (WS) and landside (LS) ends. (24-inch pipe [HLM 9.23] authorized under Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Annie D. Propfe).
 [Additional Reference(s): DWR Levee Log, 2005 (HLM 9.23).
 FS Date: 3/3/2020 3:23:52 PM

Photo 1 of 3 : UCIP_SP_2020_56188_83629.jpg



View of levee crown at the crossing looking downstream

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	9.02	Rating **	M	Issue No.	60 (cont)
LM End	9.02	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.158033 °	39.158033 °	
			-122.021701 °	-122.021701 °	
DWR ID	17164				

Photo 2 of 3 : UCIP_SP_2020_56188_83628.jpg



View of WS looking from levee crown

LM Start	9.02	Rating **	M	Issue No.	60 (cont)
LM End	9.02	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_56188_83627.jpg



View of LS looking from levee crown

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	9.03	Rating **	M	Issue No.	61
LM End	9.03	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.158124 °	39.158124 °
				-122.021701 °	-122.021701 °
DWR ID	17165				

Comment Code

Inspector Comment

DS_ID:17165
FS_ID:56190
EP_NO: 9390
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 03/03/2020 Record remains Non-Urgent. Crossing appears abandoned. Only pumping platform and steel walkway found on LS. Unable to confirm pipe removal. According to O&M as-built this pipe was running on the top of pipe DSID 17166 at the time of levee construction and was discharging into a concrete spill box on WS. Need to have CVFPB review ABO and determine current owner.
(O.Yakimov - DWR UCIP)
05/02/2017 Abandoned- only LS steel walkway is visible. (DWR Sutter Yard- A.Freitag)
10/17/2016 Abandoned. (DWR Sutter Yard- A.Freitag)
05/31/2016 Abandoned crossing.
05/04/2015 Abandoned crossing.
06/17/2014 Same as last inspection.
12/16/2013 Same as last inspection.
07/16/2013 Same as last inspection.
10/11/2012 Pipe abandoned. Steel pump platform remains on LS slope, but all appearances have been removed. (DWR UCIP - W.Wylie)
FIELD_STRUCT_DESC: 18-inch steel drainage pipe through the levee, 3 feet below the crown. Waterside (WS) end open into concrete spill box. Pump located on the landside (LS) on steel pier. (18-inch pipe [HLM 9.24] authorized under Automatic Board Order (ABO) issued as Permit No. 9390, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005 (HLM 9.24). USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019, (HLM 9.24), listed as 18-inch pipe. USACE As-Built Drawing No. 50-4-3081, Sheet 9 and 16, Station 1810+96.5, 4 April 1957].
FS Date: 3/3/2020 3:34:02 PM

Photo 1 of 3 : UCIP_SP_2020_56190_83618.jpg



View of levee crown at the crossing looking downstream

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	9.03	Rating **	M	Issue No.	61 (cont)	
LM End	9.03	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.158124 °	39.158124 °	
				-122.021701 °	-122.021701 °	
DWR ID	17165					

Photo 2 of 3 : UCIP_SP_2020_56190_83621.jpg



Steel walkway to former pumping platform in irrigation canal on LS

LM Start	9.03	Rating **	M	Issue No.	61 (cont)
LM End	9.03	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_56190_83620.jpg



Abandoned pumping platform in irrigation canal on LS

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	9.05	Rating **	M	Issue No.	62
LM End	9.05	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.158371 °	39.158371 °	
			-122.021705 °	-122.021705 °	
DWR ID	17189				

Comment Code

Inspector Comment

DS_ID:17189
FS_ID:56191
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 03/03/2020 Record updated from No Action Needed to Non-Urgent. Crossing not found. Geophysical results did not confirm presence of pipe through levee. Record will remain in UCIP's inspection records until future Levee Improvement Project can confirm no crossing was found through the levee. Suspect that this pipe is the same record as DSID 17164. (O.Yakimov - DWR UCIP)
05/02/2017 Unable to locate. (DWR Sutter Yard- A.Freitag)
10/17/2016 Unable to locate. (DWR Sutter Yard- A.Freitag)
05/31/2016 Unable to locate.
05/04/2015 Unable to locate.
06/17/2014 Unable to locate.
12/16/2013 Unable to locate.
07/16/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 24-inch steel drainage pipe through the levee, at an unknown depth. Corrugated metal cutoff wall at center of levee. 1/4-inch cover plates continuously welded over both the waterside (WS) and the landside (LS) ends. [Additional Reference(s): USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019, (HLM 9.25), listed 24-inch pipe. USACE As-Built Drawing No. 50-4-3081, Sheet 9 and 16, Station 1811+05, 4 April 1957].
FS Date: 3/3/2020 3:43:21 PM

LM Start	9.05	Rating **	M	Issue No.	62 (cont)
LM End	9.05	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_56191_83623.jpg



View of levee crown at potential crossing looking downstream

Photo 2 of 3 : UCIP_SP_2020_56191_83624.jpg



View of LS looking from levee crown

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	9.05	Rating **	M	Issue No.	62 (cont)
LM End	9.05	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.158371 °	39.158371 °
				-122.021705 °	-122.021705 °
DWR ID	17189				

Photo 3 of 3 : UCIP_SP_2020_56191_83625.jpg



View of WS looking from levee crown

LM Start	9.09	Rating **	M	Issue No.	38
LM End	9.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.159028 °	39.163651 °
				-122.021743 °	-122.021856 °
DWR ID	DWR_MA0012_01_s_2020_38				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	9.09	Rating **	M	Issue No.	39
LM End	9.41	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.159028 °	39.163651 °
				-122.021743 °	-122.021856 °
DWR ID	DWR_MA0012_01_s_2020_39				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	9.12	Rating **	U	Issue No.	63
LM End	9.12	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.159477 °	39.159477 °	
			-122.021839 °	-122.021839 °	
DWR ID	17167				

Comment Code

Inspector Comment

DS_ID:17167
FS_ID:56192
EP_NO: 9389
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 03/03/2020 Record remains Urgent. Pipe is excessively corroded inside at WS end. Recommend internal video inspection of crossing. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP)
10/05/2018 Flap gate was installed at WS end of the pipe. Pipe is excessively corroded looking inside from WS end. Video inspection is recommended. Cracks more than 1-inch wide were observed on WS slope around pipe alignment that may be a sign of slope instability. (O.Yakimov - DWR UCIP)
05/02/2017 No repairs have been made to this crossing yet. WS flap gate is still disconnected from end of pipe and pipe is showing heavy signs of rust and deterioration as far in as i can see from the WS end. Pipe should be internally camera inspected and repaired/replaced. (DWR Sutter Yard- A.Freitag)
01/31/2017 Informal Notice of Violation (NOV) was sent out January 31, 2017 by DWR Flood Maintenance Office--owner needs to re-attach flap gate to drainage pipe and coordinate with CVFPB to address additional issue(s) identified in NOV. Owner has until Monday February 27th, 2017 to respond to DWR contact: Bryan Reniff. (refer to Official Notice for details). (DWR UCIP - O. Magana)
10/17/2016 WS flapgate has separated from the pipe end. WS pipe end is showing signs of rust and deterioration. Needs a new flapgate or other means of closing off the pipe before flood season. (DWR Sutter Yard- A.Freitag)
05/31/2016 Crossing appears to be in good condition.
05/04/2015 Crossing appears to be in good condition. No noticeable issues to report.
06/17/2014 Same as last inspection.
12/16/2013 Same as last inspection.
07/16/2013 Same as last inspection.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 15.4 feet below the crown. Concrete headwall and flap gate on the waterside (WS). Concrete headwall on the landside (LS). Pump on steel structure in slough on the LS. Pump discharges into a 42-inch corrugated metal pipe (CMP) riser. Service pole on ramp. Butterfly gate at inlet on the LS toe. (36-inch pipe [HLM 9.33] authorized under Automatic Board Order (ABO) issued as Permit No. 9389, 1974 - Annie D. Propfe). [Additional Reference(s): DWR Levee Log, 2005 (HLM 9.33). USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019, (HLM 9.33), listed as 36-inch pipe. USACE As-Built Drawing No. 50-4-3081, Sheet 9 and 16, Station 1816+00, 4 April 1957].

Photo 1 of 3 : UCIP_SP_2020_56192_83633.jpg



View of levee crown at the crossing
looking downstream

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

FS Date: 3/3/2020 3:46:38 PM

LM Start	9.12	Rating **	U	Issue No.	63 (cont)
LM End	9.12	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2020_56192_83634.jpg



Stanspipe, pump in drainage ditch, and tractor used as a pump motor on LS

LM Start	9.12	Rating **	U	Issue No.	63 (cont)
LM End	9.12	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56192_83638.jpg



View of WS looking from levee crown

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	9.39	Rating **	A/W	Issue No.	32
LM End	9.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.163288 °	39.163288 °
				-122.021859 °	-122.021859 °
DWR ID	DWR_MA0012_01_f_2019_32				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Single rodent hole on the landside slope. LMA placed bait station at the toe. Recommend monitoring for activity.					

No Photos

LM Start	9.76	Rating **	M	Issue No.	36
LM End	9.93	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.168720 °	39.171205 °
				-122.021837 °	-122.021822 °
DWR ID	DWR_MA0012_01_s_2020_36				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	9.84	Rating **	M	Issue No.	34
LM End	9.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.169863 °	39.171205 °
				-122.021824 °	-122.021822 °
DWR ID	DWR_MA0012_01_s_2020_34				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	10.07	Rating **	M	Issue No.	33
LM End	10.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.173139 °	39.173654 °
				-122.021527 °	-122.021130 °
DWR ID	DWR_MA0012_01_s _ 2020_33				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	10.07	Rating **	M	Issue No.	30
LM End	10.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.173162 °	39.179715 °
				-122.021508 °	-122.014375 °
DWR ID	DWR_MA0012_01_s _ 2020_30				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2020_MA0012_299_30_20200401_00074.jpg



View of vegetation on the landside slope. Spring 2020.

LM Start	10.37	Rating **	M	Issue No.	29
LM End	10.89	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.173857 °	39.179715 °
				-122.016542 °	-122.014376 °
DWR ID	DWR_MA0012_01_s _ 2020_29				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	10.92	Rating **	M	Issue No.	64
LM End	10.92	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.180039 °	39.180039 °
				-122.014266 °	-122.014266 °
DWR ID	17157				

Comment Code

Inspector Comment

DS_ID:17157
FS_ID:56155
EP_NO: 9386
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 03/03/2020 Record remains Non-Urgent. Crossing appears abandoned. Geophysical study indicates presence of pipe through levee, pipe crossing levee at angle. Pipe inlet on LS not found. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP)
05/02/2017 Abandoned - needs to be done properly. (DWR Sutter Yard- A.Freitag)
10/17/2016 Abandoned crossing. (DWR Sutter Yard- A.Freitag)
05/31/2016 Abandoned crossing. Both pipe ends and slide gate inside of riser are buried.
05/04/2015 Both pipe ends and slide gate in riser are plugged with soil. Crossing is inoperable.
006/17/2014 Same as last inspection.
12/16/2013 Same as last inspection.
07/16/2013 Same as last inspection.
10/11/2012 Pipe plugged with soil on both ends as well as at slide gate on WS slope. Slide gate inoperable. (W.Wylie - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 8 feet below the crown. Slide gate in a 36-inch riser on the waterside (WS) shoulder. Levee turns eastward. (24-inch pipe [HLM 11.17] authorized under Automatic Board Order (ABO) issued as Permit No. 9386, 1974 - C. J. Wescott Jr.). [Additional Reference(s): DWR Levee Log, 2005 (HLM 11.17). USACE Sacramento O&M Manual, Unit 132, October 1959, Revised 14 January 2019, (HLM 11.17), listed as 24-inch pipe. USACE As-Built Drawing No. 50-4-3081, Sheet 10 and 16, Station 1912+40, 4 April 1957].
FS Date: 3/3/2020 11:49:40 AM

Photo 1 of 3 : UCIP_SP_2020_56155_83418.jpg



View of levee crown at crossing looking downstream

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	10.92	Rating **	M	Issue No.	64 (cont)
LM End	10.92	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.180039 °	39.180039 °	
			-122.014266 °	-122.014266 °	
DWR ID	17157				

Photo 2 of 3 : UCIP_SP_2020_56155_83421.jpg



Water-Side looking from the crown

LM Start	10.92	Rating **	M	Issue No.	64 (cont)
LM End	10.92	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_56155_83422.jpg



View inside of CMP riser on WS shoulder

LM Start	10.95	Rating **	U	Issue No.	31
LM End	11.05	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.180121 °	39.180198 °
				-122.013693 °	-122.011833 °
DWR ID	DWR_MA0012_01_f_2019_31				
Comment Code					
DT : Ditch					
Inspector Comment					
Landowner appears to have installed a landside toe irrigation ditch.					

Photo 1 of 2 : SP_2020_MA0012_299_31_20200228_00003.jpg



View of the ditch at the landside toe. Fall 2019.

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

Levee Inspection Report By Mile - Spring 2020

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.06	04/01/2020 04/01/2020	Zach Jojola

LM Start	10.95	Rating **	U	Issue No.	31 (cont)
LM End	11.05	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.180121 °	39.180198 °
				-122.013693 °	-122.011833 °
DWR ID	DWR_MA0012_01 f _ 2019 31				

Photo 2 of 2 : SP_2020_MA0012_299_31_20200228_00004.jpg



View of the water source. Fall 2019.

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