

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019**

**Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	11/04/2019 11/04/2019	Sterling York

LM Start		Rating **	A	Issue No.	<b>3</b>
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			o	o
				o	o
DWR ID	DWR_MA0016_01_s_2013_3				
Comment Code					
Inspector Comment					
The O&M manuals are located at the Sutter Maintenance Yard.					

No Photos

LM Start		Rating **	A	Issue No.	<b>4</b>
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			o	o
				o	o
DWR ID	DWR_MA0016_01_s_2013_4				
Comment Code					
Inspector Comment					
Sutter maintenance yard employees attend the annual Flood Fight class put on by DWR.					

No Photos

LM Start		Rating **	A	Issue No.	<b>5</b>
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			o	o
				o	o
DWR ID	DWR_MA0016_01_s_2013_5				
Comment Code					
Inspector Comment					
Emergency supplies and equipment are stored at the Sutter Maintenance Yard.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Feather River	Right	4.06	11/04/2019 11/04/2019	Sterling York

LM Start	<b>0.01</b>	Rating **	A	Issue No.	<b>7</b>
LM End	<b>4.06</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.255899°	39.310952°	
			-121.636412°	-121.637662°	
DWR ID	DWR_MA0016_01_f_2019_7				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2019.					

Photo 1 of 1 : FA\_2019\_MA0016\_302\_7\_20191112\_00010.jpg



View looking upstream landside at the well maintained annual vegetation, Fall 2019.

LM Start	<b>0.01</b>	Rating **	A	Issue No.	<b>8</b>
LM End	<b>4.06</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.255899°	39.310953°	
			-121.636412°	-121.637662°	
DWR ID	DWR_MA0016_01_f_2019_8				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2019.					

Photo 1 of 1 : FA\_2019\_MA0016\_302\_8\_20191112\_00011.jpg



View looking upstream waterside at the well maintained annual vegetation, Fall 2019.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Feather River	Right	4.06	11/04/2019 11/04/2019	Sterling York

LM Start	<b>3.39</b>	Rating **	U	Issue No.	<b>17</b>
LM End	<b>3.39</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP LMA Responsibility		39.301218°	39.301218°	
			-121.638332°	-121.638332°	
DWR ID	17125				
Comment Code					
Inspector Comment					
DS_ID:17125 FS_ID:55877 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 05/22/2019 No internal inspection was completed due to the poor condition of the pipe. Pipe has been upgraded from Non-Urgent to Urgent due to the condition of the pipe. (O. Magana - DWR UCIP)05/22/2017 LS inlet buried. WS access being blocked off by over grown vegetation. Pipe has been selected for internal cleaning and inspection as part of the DMP project. (DWR Sutter Yard - AFreitag)12/01/2016 LS inlet completely buried. (DWR Sutter Yard- AFreitag)05/26/2016 LS inlet was completely buried.06/08/2015 Concrete headwall is still cracked and inlet is buried. It was said to be replaced with the SBFCA project but the project skipped over in this area.12/29/2014 Same as last inspection.05/19/2014 Same as last inspection.11/06/2013 Same as last inspection.05/14/2013 SBFCA project recommends replacing in accordance with title 23. Same as last inspection.12/11/2012 Concrete headwall on LS toe is cracked through middle and pipe is buried in soil. pipe appears corroded. (DWR UCIP - W. Wylie) FIELD_STRUCT_DESC: 1 of 2: 24-inch corrugated metal drainage pipe through the levee, 16.6 feet below the crown. Concrete headwalls on both the waterside (WS) and the landside (LS) ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 148, August 1955, (Station 646+96)]. FS Date: 5/22/2019 3:47:00 PM					

Photo 1 of 3 : UCIP\_FA\_2019\_55877\_65782.jpg



Headwall at LS toe is cracked and the inlet is buried in soil.

LM Start	<b>3.39</b>	Rating **	U	Issue No.	<b>17 (cont)</b>
LM End	<b>3.39</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2019\_55877\_65781.jpg



Headwall on WS toe with flap gates.

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Unit No. 01 Feather River	Right	4.06	11/04/2019 11/04/2019	Sterling York

LM Start	<b>4.07</b>	Rating **	M	Issue No.	<b>19</b>
LM End	<b>4.07</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP LMA Responsibility		39.311127°	39.311127°	
			-121.637606°	-121.637606°	
DWR ID	17123				
Comment Code					
Inspector Comment					
<p>DS_ID:17123                  FS_ID:55881                  EP_NO: N/A                  Repair Type: Non-Urgent                  Crossing Status: Found                  UCIP Comments: 05/22/2019 Record has been updated from No Action Needed to Non-Urgent, need to clarify owner. Unclear the purpose of this pipe. The pipe transfers water from LS to WS and then the flow is diverted via a WS canal that runs parallel along levee for about 0.92 miles. This crossing might be used to irrigate orchards located on the WS. Need to contact owner to clarify purpose of this structure. (O. Magana - DWR UCIP)05/22/2017 Crossing appears to be in good condition. (DWR Sutter Yard - AFreitag)12/01/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)05/26/2016 Crossing appears to be in good condition.06/08/2015 Pipe appears to be in good condition. No noticeable issues to report. Pipe was listed to be replaced with the SBFCA project but the project did not take place in this area.12/29/2014 Same as last inspection.05/19/2014 Same as last inspection.11/06/2013 Same as last inspection.05/14/2013 Slide gate opened allowing water to flow through, debris problem has been cleared and the gates seem to be functioning properly. SBFCA project recommends replacing in accordance with title 23.12/11/2012 Lock missing from concrete well access door-this should be replaced. Some debris blocking preventing flap gate from completely closing. (DWR UCIP - W. Wylie)                  FIELD_STRUCT_DESC: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 20.5 feet below the crown. Slide gate in a concrete well on the waterside (WS) slope. Siphon breaker/air vent on the WS shoulder at the concrete well. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&amp;M Manual 148, August 1955, (Station 683+25)].                  FS Date: 5/22/2019 3:50:00 PM</p>					

Photo 1 of 3 : UCIP\_FA\_2019\_55881\_65785.jpg



Slide gate, concrete well, siphon breaker/air vent and open channel on WS of levee.

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LM End	<b>4.07</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP LMA Responsibility		39.311127°	39.311127°	
			-121.637606°	-121.637606°	
DWR ID	17123				
Comment Code					
Inspector Comment					
<p>DS_ID:17123                  FS_ID:55881                  EP_NO: N/A                  Repair Type: Non-Urgent                  Crossing Status: Found                  UCIP Comments: 05/22/2019 Record has been updated from No Action Needed to Non-Urgent, need to clarify owner. Unclear the purpose of this pipe. The pipe transfers water from LS to WS and then the flow is diverted via a WS canal that runs parallel along levee for about 0.92 miles. This crossing might be used to irrigate orchards located on the WS. Need to contact owner to clarify purpose of this structure. (O. Magana - DWR UCIP)05/22/2017 Crossing appears to be in good condition. (DWR Sutter Yard - AFreitag)12/01/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)05/26/2016 Crossing appears to be in good condition.06/08/2015 Pipe appears to be in good condition. No noticeable issues to report. Pipe was listed to be replaced with the SBFCA project but the project did not take place in this area.12/29/2014 Same as last inspection.05/19/2014 Same as last inspection.11/06/2013 Same as last inspection.05/14/2013 Slide gate opened allowing water to flow through, debris problem has been cleared and the gates seem to be functioning properly. SBFCA project recommends replacing in accordance with title 23.12/11/2012 Lock missing from concrete well access door-this should be replaced. Some debris blocking preventing flap gate from completely closing. (DWR UCIP - W. Wylie)                  FIELD_STRUCT_DESC: 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 20.5 feet below the crown. Slide gate in a concrete well on the waterside (WS) slope. Siphon breaker/air vent on the WS shoulder at the concrete well. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&amp;M Manual 148, August 1955, (Station 683+25)].                  FS Date: 5/22/2019 3:50:00 PM</p>					

Photo 3 of 3 : UCIP\_FA\_2019\_55881\_65783.jpg



Concrete headwall and flap gate on WS toe.

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