

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>23</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				
DWR ID	DWR_NA0010_01_s _ 2013_23				
Comment Code					
Inspector Comment					
The LMA maintains a copy of the O&M manuals on file at district office.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>24</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				
DWR ID	DWR_NA0010_01_s _ 2013_24				
Comment Code					
Inspector Comment					
The LMA has adequate supplies and equipment for flood response.					

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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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>25</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_NA0010_01_s_2013_25				
Comment Code					
Inspector Comment					
LMA preparedness and training is adequate for flood response.					

No Photos

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>1185</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		37.348637 °	37.348637 °	
			-120.958834 °	-120.958834 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39091 DS_ID:19650 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope and landward toe. Recommend removing vegetation along pipe alignment and landward toe to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS), elevation 65.1 feet, USGS Datum. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.02)]. FS Date: 4/8/2014 7:34:00 AM					

Photo 1 of 3 : UCIP\_SP\_2018\_39091\_60601.jpg



Flapgate on WS toe.

<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 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	1185 (cont)
LM End	0.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.348637 °	37.348637 °
				-120.958834 °	-120.958834 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:39091  
DS\_ID:19650  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope and landward toe. Recommend removing vegetation along pipe alignment and landward toe to conduct proper inspection of structure and appurtenances.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS), elevation 65.1 feet, USGS Datum.  
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.02)].  
FS Date: 4/8/2014 7:34:00 AM

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>1185 (cont)</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39091\_60600.jpg



Flapgate on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39091\_60602.jpg



Headwall on LS toe.

<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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	103
LM End	22.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.348643 °	37.166833 °
				-120.958863 °	-120.749693 °
DWR ID	DWR_NA0010_01_s _ 2018_103				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	113
LM End	22.54	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.348644 °	37.166833 °
				-120.958864 °	-120.749693 °
DWR ID	DWR_NA0010_01_s _ 2018_113				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.06	Rating **	A/W	Issue No.	102
LM End	0.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.348139 °	37.345556 °
				-120.959688 °	-120.961795 °
DWR ID	DWR_NA0010_01_f _ 2017_102				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation at the landside toe.					

Photo 1 of 1 : SP\_2018\_NA0010\_118\_102\_20180307\_00018.jpg



Looking southwest at the landside slope.

**\* 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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### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	0.07	Rating **	M	Issue No.	1
LM End	0.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.347999 °	37.346096 °
				-120.959840 °	-120.961455 °
DWR ID	DWR_NA0010_01_s_2012_1				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Typical view of several rodent holes on landward slope.Could not see rodent holes due to dense vegetation.					

Photo 1 of 1 : SP\_2018\_NA0010\_118\_1\_20180307\_00001.jpg



Looking at typical rodent holes on landward slope.

LM Start	0.34	Rating **	M	Issue No.	1186
LM End	0.34	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.344705 °	37.344705 °
				-120.962176 °	-120.962176 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39092 DS_ID:19651 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe has significant sediment buildup and shows some signs of corrosion at landward toe. Recommend cleaning sediment from inside pipe and check wall integrity. FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 18.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.35)]. FS Date: 4/8/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39092\_60611.jpg



Flapgate and headwall visible off WS toe.

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	0.34	Rating **	M	Issue No.	1186 (cont)
LM End	0.34	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.344705 °	37.344705 °
				-120.962176 °	-120.962176 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39092  
DS\_ID:19651  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Pipe has significant sediment buildup and shows some signs of corrosion at landward toe. Recommend cleaning sediment from inside pipe and check wall integrity.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 18.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.35)].  
FS Date: 4/8/2014

LM Start	<b>0.34</b>	Rating **	M	Issue No.	<b>1186 (cont)</b>
LM End	<b>0.34</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39092\_60613.jpg



Flapgate and headwall visible off WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39092\_60612.jpg



Pipe and headwall visible off LS toe.

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	0.60	Rating **	M	Issue No.	1187	
LM End	0.60	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.341507 °	37.341507 °	
				-120.961283 °	-120.961283 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39095						
DS_ID:19583						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Recommend removing vegetation pile from waterward toe.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.62)].						
FS Date: 4/8/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39095\_60622.jpg



Flapgate and headwall visible on WS toe.

LM Start	<b>0.60</b>	Rating **	M	Issue No.	<b>1187 (cont)</b>
LM End	<b>0.60</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39095\_60623.jpg



Flapgate and headwall visible on WS toe.

<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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	0.60	Rating **	M	Issue No.	1187 (cont)	
LM End	0.60	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.341507 °	37.341507 °	
				-120.961283 °	-120.961283 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39095						
DS_ID:19583						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Recommend removing vegetation pile from waterward toe.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.62)].						
FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39095\_60621.jpg



Pipe and headwall visible on LS toe.

LM Start	0.85	Rating **	A/W	Issue No.	1188
LM End	0.85	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.339829 °	37.339829 °
				-120.958621 °	-120.958621 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33524					
DS_ID:19584					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.87)].					
FS Date: 4/8/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33524\_60627.jpg



Pipe, flapgate, and headwall visible on WS toe.

<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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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	0.85	Rating **	A/W	Issue No.	1188 (cont)	
LM End	0.85	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.339829 °	37.339829 °	
				-120.958621 °	-120.958621 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33524						
DS_ID:19584						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 7 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 0.87)].						
FS Date: 4/8/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_33524\_60626.jpg



Pipe and headwall visible on LS toe.

LM Start	<b>0.85</b>	Rating **	A/W	Issue No.	<b>1188 (cont)</b>
LM End	<b>0.85</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_33524\_60625.jpg



Pipe and headwall visible on LS toe.

<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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Levee Inspections**

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### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	0.93	Rating **	M	Issue No.	1189	
LM End	0.93	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.339598 °	37.339598 °	
				-120.957202 °	-120.957202 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39096						
DS_ID:19585						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Moderate erosion around headwall on landward toe.						
May or may not be an issue. Need to contact owner to determine status						
of crossing and to address erosion issue on landward side.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 7 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 0.95)].						
FS Date: 4/8/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39096\_60632.jpg



Flapgate, pipe, and headwall on WS toe.

LM Start	<b>0.93</b>	Rating **	M	Issue No.	<b>1189 (cont)</b>
LM End	<b>0.93</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39096\_60631.jpg



Concrete headwall and pipe visible at LS toe.

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

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	0.93	Rating **	M	Issue No.	1189 (cont)	
LM End	0.93	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.339598 °	37.339598 °	
				-120.957202 °	-120.957202 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39096 DS_ID:19585 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Moderate erosion around headwall on landward toe. May or may not be an issue. Need to contact owner to determine status of crossing and to address erosion issue on landward side. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.95)]. FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39096\_60633.jpg



Flapgate, pipe, and headwall on WS toe.

LM Start	1.15	Rating **	A/W	Issue No.	1190	
LM End	1.15	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.338005 °	37.338005 °	
				-120.953921 °	-120.953921 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33543						
DS_ID:19586						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 7.5 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 1.17)].						
FS Date: 4/8/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_33543\_60642.jpg



Pipe, headwall, and flapgate visible on WS toe.

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	1.15	Rating **	A/W	Issue No.	1190 (cont)	
LM End	1.15	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.338005 °	37.338005 °	
				-120.953921 °	-120.953921 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33543						
DS_ID:19586						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 7.5 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 1.17)].						
FS Date: 4/8/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_33543\_60643.jpg



Pipe, headwall, and flapgate visible on WS toe.

LM Start	<b>1.15</b>	Rating **	A/W	Issue No.	<b>1190 (cont)</b>
LM End	<b>1.15</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_33543\_60641.jpg



Headwall and pipe visible on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	1.32	Rating **	A/W	Issue No.	1191
LM End	1.32	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.337361 °	37.337361 °
				-120.950879 °	-120.950879 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33544 DS_ID:19587 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 12.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). Pipe crosses through the levee at about a 45 degree angle to the crown. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.34)]. FS Date: 4/8/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33544\_60649.jpg



Concrete headwall and flapgate visible at WS toe.

LM Start	<b>1.32</b>	Rating **	A/W	Issue No.	<b>1191 (cont)</b>
LM End	<b>1.32</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33544\_60648.jpg



Concrete headwall and flapgate visible at WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	1.32	Rating **	A/W	Issue No.	1191 (cont)	
LM End	1.32	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.337361 °	37.337361 °	
				-120.950879 °	-120.950879 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33544 DS_ID:19587 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 12.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). Pipe crosses through the levee at about a 45 degree angle to the crown. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.34)]. FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33544\_60647.jpg



Concrete headwall and pipe visible at LS toe.

LM Start	1.46	Rating **	M	Issue No.	1192
LM End	1.46	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.336866 °	37.336866 °
				-120.948520 °	-120.948520 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39099					
DS_ID:19588					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Some sediment buildup inside pipe at LS toe.					
Recommend contacting owner to clear sediment buildup and check wall integrity through pipe section.					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.48)].					
FS Date: 4/8/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39099\_60652.jpg



Pipe, flapgate, and concrete headwall visible on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	1.46	Rating **	M	Issue No.	1192 (cont)	
LM End	1.46	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.336866 °	37.336866 °	
				-120.948520 °	-120.948520 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39099 DS_ID:19588 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some sediment buildup inside pipe at LS toe. Recommend contacting owner to clear sediment buildup and check wall integrity through pipe section. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.48)]. FS Date: 4/8/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39099\_60653.jpg



Pipe, flapgate, and concrete headwall visible on WS toe.

LM Start	<b>1.46</b>	Rating **	M	Issue No.	<b>1192 (cont)</b>
LM End	<b>1.46</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39099\_60651.jpg



Pipe and concrete headwall visible on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	1.67	Rating **	M	Issue No.	1193	
LM End	1.67	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.336459 °	37.336459 °	
				-120.944803 °	-120.944803 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33563 DS_ID:19589 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy sediment buildup in pipe at LS toe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 13.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 108 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.69)]. FS Date: 4/8/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_33563\_60661.jpg



Pipe, headwall, and flapgate visible on WS toe.

LM Start	<b>1.67</b>	Rating **	M	Issue No.	<b>1193 (cont)</b>
LM End	<b>1.67</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33563\_60663.jpg



Pipe, headwall, and flapgate visible on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	1.81	Rating **	A/W	Issue No.	1194 (cont)	
LM End	1.81	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.335612 °	37.335612 °	
				-120.942532 °	-120.942532 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33564						
DS_ID:19590						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe						
through the levee, 14.2 feet below the crown. Flap gate on the						
waterside (WS) end. Brass cap No. 100 bench mark (BM) on the						
headwall on the landside (LS). [Additional Reference(s): DWR Levee						
Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.83)].						
FS Date: 4/8/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_33564\_60667.jpg



Pipe, flapgate, and headwall visible at WS toe.

LM Start	<b>1.81</b>	Rating **	A/W	Issue No.	<b>1194 (cont)</b>
LM End	<b>1.81</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_33564\_60665.jpg



Pipe and concrete headwall visible at LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	1.95	Rating **	M	Issue No.	1195	
LM End	1.95	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.334377 °	37.334377 °	
				-120.940397 °	-120.940397 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39100 DS_ID:19591 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine crossing status. Inlet drop box silted in and needs to be cleaned out. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the landside (LS). Wooden barrier around drop inlet on the LS toe. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.98)]. FS Date: 4/8/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39100\_60670.jpg



Concrete headwall and flapgate on WS toe.

LM Start	<b>1.95</b>	Rating **	M	Issue No.	<b>1195 (cont)</b>
LM End	<b>1.95</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39100\_60672.jpg



Pipe, flapgate, and headwall on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	1.95	Rating **	M	Issue No.	1195 (cont)
LM End	1.95	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.334377 °	37.334377 °
				-120.940397 °	-120.940397 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39100 DS_ID:19591 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine crossing status. Inlet drop box silted in and needs to be cleaned out. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the landside (LS). Wooden barrier around drop inlet on the LS toe. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.98)]. FS Date: 4/8/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39100\_60671.jpg



Wooded barrier around drop-inlet on LS toe.

LM Start	2.06	Rating **	M	Issue No.	1196
LM End	2.06	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.333653 °	37.333653 °
				-120.938770 °	-120.938770 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39123 DS_ID:19570 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to find inlet on landward toe. Recommend clearing vegetation on landward side to properly inspect inlet. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.08)]. FS Date: 4/8/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39123\_60675.jpg



Pipe and flapgate visible on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	2.06	Rating **	M	Issue No.	1196 (cont)	
LM End	2.06	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.333653 °	37.333653 °	
				-120.938770 °	-120.938770 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39123 DS_ID:19570 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to find inlet on landward toe. Recommend clearing vegetation on landward side to properly inspect inlet. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.08)]. FS Date: 4/8/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39123\_60676.jpg



Pipe and flapgate visible on WS toe.

LM Start	<b>2.06</b>	Rating **	M	Issue No.	<b>1196 (cont)</b>
LM End	<b>2.06</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39123\_60674.jpg



Wooded barrier around drop-inlet on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	2.22	Rating **	A/W	Issue No.	1197
LM End	2.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.331611 °	37.331611 °
				-120.937455 °	-120.937455 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39125  
DS\_ID:19571  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments:  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 12.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the landside (LS). Wooden barrier around drop inlet on the LS toe. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.25)].  
FS Date: 4/8/2014

LM Start	<b>2.22</b>	Rating **	A/W	Issue No.	<b>1197 (cont)</b>
LM End	<b>2.22</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39125\_71309.jpg



Pipe and flapgate on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39125\_71308.jpg



Pipe and headwall on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	2.22	Rating **	A/W	Issue No.	1197 (cont)	
LM End	2.22	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.331611 °	37.331611 °	
				-120.937455 °	-120.937455 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39125 DS_ID:19571 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 12.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the landside (LS). Wooden barrier around drop inlet on the LS toe. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.25)]. FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39125\_71307.jpg



Pipe and headwall on LS toe.

LM Start	2.50	Rating **	A/W	Issue No.	1198
LM End	2.50	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.328619 °	37.328619 °
				-120.934369 °	-120.934369 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33568					
DS_ID:19572					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.52)].					
FS Date: 4/8/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33568\_60679.jpg



Pipe, headwall, and flapgate on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	2.50	Rating **	A/W	Issue No.	1198 (cont)	
LM End	2.50	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.328619 °	37.328619 °	
				-120.934369 °	-120.934369 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33568						
DS_ID:19572						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 8 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 2.52)].						
FS Date: 4/8/2014						

LM Start	<b>2.50</b>	Rating **	A/W	Issue No.	<b>1198 (cont)</b>
LM End	<b>2.50</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33568\_60680.jpg



Pipe, headwall, and flapgate on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_33568\_60678.jpg



Pipe and headwall on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	2.67	Rating **	M	Issue No.	1199	
LM End	2.67	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.327362 °	37.327362 °	
				-120.931591 °	-120.931591 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39127						
DS_ID:19573						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Sedimentation in pipe at landward toe.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 7.3 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 2.70)].						
FS Date: 4/8/2014						

LM Start	<b>2.67</b>	Rating **	M	Issue No.	<b>1199 (cont)</b>
LM End	<b>2.67</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39127\_60688.jpg



Pipe, flapgate, and headwall on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39127\_60689.jpg



Pipe, flapgate, and headwall on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	2.67	Rating **	M	Issue No.	1199 (cont)	
LM End	2.67	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.327362 °	37.327362 °	
				-120.931591 °	-120.931591 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39127 DS_ID:19573 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sedimentation in pipe at landward toe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 7.3 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.70)]. FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39127\_60687.jpg



Pipe and headwall on LS toe.

LM Start	3.06	Rating **	M	Issue No.	104
LM End	3.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.322499 °	37.322499 °
				-120.928986 °	-120.928986 °
DWR ID	DWR_NA0010_01_f_2017_104				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Slope damage caused by foot traffic.					

Photo 1 of 1 : SP\_2018\_NA0010\_118\_104\_20180307\_00019.jpg



Looking northeast at the landside slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	3.13	Rating **	M	Issue No.	108
LM End	3.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.321468 °	37.321468 °
				-120.928757 °	-120.928757 °
DWR ID	DWR_NA0010_01_s_2017_108				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Slope damage caused by animal traffic on landside toe.					

Photo 1 of 1 : SP\_2018\_NA0010\_118\_108\_20180307\_00020.jpg



Looking west at slope damage caused by animal traffic.

LM Start	3.13	Rating **	M	Issue No.	1200
LM End	3.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.321444 °	37.321444 °
				-120.928764 °	-120.928764 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39128					
DS_ID:19574					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Some minor erosion around headwall on LS toe.					
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.16)].					
FS Date: 4/8/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39128\_60702.jpg



Pipe, Flapgate, and headwall on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	3.13	Rating **	M	Issue No.	1200 (cont)	
LM End	3.13	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.321444 °	37.321444 °	
				-120.928764 °	-120.928764 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39128						
DS_ID:19574						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Some minor erosion around headwall on LS toe.						
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe						
through the levee, 8 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 3.16)].						
FS Date: 4/8/2014						

LM Start	<b>3.13</b>	Rating **	M	Issue No.	<b>1200 (cont)</b>
LM End	<b>3.13</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39128\_60700.jpg



Pipe, Flapgate, and headwall on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39128\_60701.jpg



Pipe and headwall on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	3.16	Rating **	M	Issue No.	10
LM End	3.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.321053 °	37.321053 °
				-120.928785 °	-120.928785 °
DWR ID	DWR_NA0010_01_s_2012_10				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes noted within this section. Rodent hole noted on waterside shoulder next to fence pole.					

Photo 1 of 2 : SP\_2018\_NA0010\_118\_10\_20180307\_00008.jpg



Looking at typical view of rodent holes on landward slope.

LM Start	<b>3.16</b>	Rating **	M	Issue No.	<b>10 (cont)</b>
LM End	<b>3.16</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2018\_NA0010\_118\_10\_20180307\_00009.jpg



Looking at rodent hole next to fence pole on landward shoulder.

LM Start	3.26	Rating **	A/W	Issue No.	109
LM End	3.29	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.319740 °	37.319300 °
				-120.928308 °	-120.927903 °
DWR ID	DWR_NA0010_01_s_2017_109				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Depression (sinkhole) on levee crown and other depressions					

Photo 1 of 4 : SP\_2018\_NA0010\_118\_109\_20180307\_00021.jpg



Looking south at sinkhole on 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	3.26	Rating **	A/W	Issue No.	109 (cont)
LM End	3.29	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.319740 °	37.319300 °
				-120.928308 °	-120.927903 °
DWR ID	DWR_NA0010_01_s_2017_109				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Depression (sinkhole) on levee crown and other depressions					

Photo 2 of 4 : SP\_2018\_NA0010\_118\_109\_20180307\_00022.jpg



Looking south at close view of sinkhole on levee crown

LM Start	<b>3.26</b>	Rating **	A/W	Issue No.	<b>109 (cont)</b>
LM End	<b>3.29</b>	Issue Type +	Ma	Location *	CR

Photo 3 of 4 : SP\_2018\_NA0010\_118\_109\_20180307\_00023.jpg



Looking south at sinkhole on levee crown.

LM Start	<b>3.26</b>	Rating **	A/W	Issue No.	<b>109 (cont)</b>
LM End	<b>3.29</b>	Issue Type +	Ma	Location *	CR

Photo 4 of 4 : SP\_2018\_NA0010\_118\_109\_20180307\_00024.jpg



Looking south at rutting on 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	3.47	Rating **	U	Issue No.	1201 (cont)	
LM End	3.47	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.317116 °	37.317116 °	
				-120.926451 °	-120.926451 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50054 DS_ID:19575 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/19/2016 Same as previous inspection. Erosion present on LS slope. (DWR UCIP - omagana)4/08/2014 Pipe rusted through at Springline on LS toe. Flapgate blocked by sediment on WS toe. Heavy sediment on both ends of pipe. Need to contact owner to address issues. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 9.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 100 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.50)]. FS Date: 7/19/2016						

Photo 3 of 3 : UCIP\_SP\_2018\_50054\_60705.jpg



Pipe and headwall on LS toe.

LM Start	3.47	Rating **	C	Issue No.	1179
LM End	3.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.317057 °	37.317057 °
				-120.926443 °	-120.926443 °
DWR ID	DWR_NA0010_01_s_2015_1179				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Several erosions greater than three inches on landside slope.					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	<b>3.50</b>	Rating **	C	Issue No.	<b>17</b>
LM End	<b>3.96</b>	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		37.316652 °	37.311006 °	
			-120.926261 °	-120.926402 °	
DWR ID	DWR_NA0010_01_f_2012_17				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					

No Photos

LM Start	<b>3.70</b>	Rating **	M	Issue No.	<b>2</b>
LM End	<b>3.90</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.313892 °	37.311341 °	
			-120.926507 °	-120.927365 °	
DWR ID	DWR_NA0010_01_s_2012_2				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	4.13	Rating **	M	Issue No.	1204
LM End	4.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.309080 °	37.309080 °
				-120.924442 °	-120.924442 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39134  
DS\_ID:19607  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Pipe appears sleeved with a 12-inch steel pipe with a slide gate at the LS toe. No identified authorization for changes to this crossing. Need to contact owner to obtain additional information about the modifications to crossing.  
FIELD\_STRUCT\_DESC: 48-inch corrugated metal gravity drainage pipe through the levee, 14 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.16)].  
FS Date: 4/8/2014

LM Start	<b>4.13</b>	Rating **	M	Issue No.	<b>1204 (cont)</b>
LM End	<b>4.13</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39134\_60730.jpg



Concrete headwall and 48-inch flapgate visible on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39134\_60731.jpg



Assumed pipe exists under pump at LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	4.13	Rating **	M	Issue No.	1204 (cont)	
LM End	4.13	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.309080 °	37.309080 °	
				-120.924442 °	-120.924442 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39134						
DS_ID:19607						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe appears sleeved with a 12-inch steel pipe with a slide gate at the LS toe. No identified authorization for changes to this crossing. Need to contact owner to obtain additional information about the modifications to crossing.						
FIELD_STRUCT_DESC: 48-inch corrugated metal gravity drainage pipe through the levee, 14 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.16)].						
FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39134\_60729.jpg



Concrete inlet, slidegate, and concrete headwall at LS toe.

LM Start	4.18	Rating **	M	Issue No.	105
LM End	4.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.308458 °	37.308458 °
				-120.923942 °	-120.923942 °
DWR ID	DWR_NA0010_01_f_2017_105				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	4.25	Rating **	M	Issue No.	1206
LM End	4.25	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.307930 °	37.307930 °
				-120.923057 °	-120.923057 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39140  
DS\_ID:19608  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation and fence limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward side. Recommend obtaining access to landward toe and removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.9 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.27)].  
FS Date: 4/8/2014

LM Start	<b>4.25</b>	Rating **	M	Issue No.	<b>1206 (cont)</b>
LM End	<b>4.25</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39140\_60733.jpg



Pipe, flapgate, and headwall visible at WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39140\_60732.jpg



Pipe, flapgate, and headwall visible at WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	4.25	Rating **	M	Issue No.	1206 (cont)
LM End	4.25	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.307930 °	37.307930 °
				-120.923057 °	-120.923057 °
DWR ID					

Photo 3 of 3 : UCIP\_SP\_2018\_39140\_60734.jpg



Concrete headwall at LS toe.

#### Comment Code

#### Inspector Comment

FS\_ID:39140  
 DS\_ID:19608  
 EP\_NO: N/A  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: Dense vegetation and fence limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward side. Recommend obtaining access to landward toe and removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.  
 FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.9 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.27)].  
 FS Date: 4/8/2014

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	4.69	Rating **	M	Issue No.	1207
LM End	4.69	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.302408 °	37.302408 °
				-120.920931 °	-120.920931 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39141  
DS\_ID:19609  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward side. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.72)].  
FS Date: 4/8/2014

LM Start	<b>4.69</b>	Rating **	M	Issue No.	<b>1207 (cont)</b>
LM End	<b>4.69</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39141\_60737.jpg



Pipe, flapgate, and headwall on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39141\_60738.jpg



Pipe, flapgate, and headwall on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	4.69	Rating **	M	Issue No.	1207 (cont)	
LM End	4.69	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.302408 °		37.302408 °
				-120.920931 °		-120.920931 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39141 DS_ID:19609 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward side. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.72)]. FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39141\_60736.jpg



Pipe and concrete headwall on LS toe.

LM Start	4.69	Rating **	A/W	Issue No.	9
LM End	4.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.302398 °	37.302398 °
				-120.920920 °	-120.920920 °
DWR ID	DWR_NA0010_01_s_2013_9				
Comment Code					
Inspector Comment					
Levee landside toe damaged by livestock.					

Photo 1 of 3 : SP\_2018\_NA0010\_118\_9\_20180420\_00271.jpg



Looking south at fill poorly placed on landward slope and toe. (Spring 2018)

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	4.69	Rating **	A/W	Issue No.	9 (cont)	
LM End	4.69	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.302398 °		37.302398 °
				-120.920920 °		-120.920920 °
DWR ID	DWR_NA0010_01_s_2013_9					
Comment Code						
Inspector Comment						
Levee landside toe damaged by livestock.						

LM Start	<b>4.69</b>	Rating **	A/W	Issue No.	<b>9 (cont)</b>
LM End	<b>4.69</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : SP\_2018\_NA0010\_118\_9\_20180307\_00006.jpg



Looking south at landside.

Photo 3 of 3 : SP\_2018\_NA0010\_118\_9\_20180307\_00007.jpg



Looking at landward slope damaged by livestock.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	5.02	Rating **	M	Issue No.	1208	
LM End	5.02	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.298917 °	37.298917 °	
				-120.917262 °	-120.917262 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39143 DS_ID:19610 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Non-functional -- sediment buildup against flapgate and inlet buried at landward side. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.05)]. FS Date: 4/8/2014						

Photo 1 of 2 : UCIP\_SP\_2018\_39143\_60740.jpg



Flapgate and headwall visible at WS toe.

LM Start	<b>5.02</b>	Rating **	M	Issue No.	<b>1208 (cont)</b>
LM End	<b>5.02</b>	Issue Type +	Ma	Location *	

Photo 2 of 2 : UCIP\_SP\_2018\_39143\_60739.jpg



Flapgate and headwall visible at WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	5.74	Rating **	U	Issue No.	107
LM End	6.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.304179 °	37.304911 °
				-120.906860 °	-120.899002 °
DWR ID	DWR_NA0010_01_f_2017_107				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_118\_107\_20180420\_00272.jpg



Looking south at dense veg on waterward slope. (Spring 2018)

LM Start	5.74	Rating **	U	Issue No.	106
LM End	6.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.304180 °	37.304911 °
				-120.906860 °	-120.899001 °
DWR ID	DWR_NA0010_01_f_2017_106				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_118\_106\_20180420\_00273.jpg



Looking south at dense veg on landward slope. (Spring 2018)

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	5.92	Rating **	M	Issue No.	1209
LM End	5.92	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.303612 °	37.303612 °
				-120.903704 °	-120.903704 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39151  
DS\_ID:19611  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Landward side filled in with soil. Need to contact owner. If crossing is no longer used need to coordinate with CVFPB for proper abandonment.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.95)].  
FS Date: 4/8/2014

LM Start	<b>5.92</b>	Rating **	M	Issue No.	<b>1209 (cont)</b>
LM End	<b>5.92</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_39151\_60742.jpg



Pipe, concrete headwall, and flapgate visible on WS toe.

Photo 2 of 2 : UCIP\_SP\_2018\_39151\_60741.jpg



Top of concrete headwall just visible on LS toe.

* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	6.10	Rating **	M	Issue No.	1210
LM End	6.10	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.304232 °	37.304232 °
				-120.900706 °	-120.900706 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39152  
DS\_ID:19612  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Pipe completely blocked by soil on LS toe due to animal activity. Slide gate blocked open.  
FIELD\_STRUCT\_DESC: 48-inch corrugated metal gravity drainage pipe through the levee, 13.1 feet below the crown. Walkway to slide gate at the concrete headwall on the landside (LS) toe. Flap gate at the concrete headwall on the waterside (WS) toe. Brass cap No. 90 bench mark (BM) on the headwall on the LS. Pipe crosses the levee at an angle. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.13)].  
FS Date: 4/8/2014

LM Start	<b>6.10</b>	Rating **	M	Issue No.	<b>1210 (cont)</b>
LM End	<b>6.10</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39152\_60745.jpg



Slidegate at LS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39152\_60744.jpg



Pipe, concrete headwall, slidegate, and metal walkway on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	6.10	Rating **	M	Issue No.	1210 (cont)
LM End	6.10	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.304232 °	37.304232 °
				-120.900706 °	-120.900706 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39152

DS\_ID:19612

EP\_NO: N/A

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Pipe completely blocked by soil on LS toe due to animal activity. Slide gate blocked open.

FIELD\_STRUCT\_DESC: 48-inch corrugated metal gravity drainage pipe through the levee, 13.1 feet below the crown. Walkway to slide gate at the concrete headwall on the landside (LS) toe. Flap gate at the concrete headwall on the waterside (WS) toe. Brass cap No. 90 bench mark (BM) on the headwall on the LS. Pipe crosses the levee at an angle. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.13)].

FS Date: 4/8/2014

Photo 3 of 3 : UCIP\_SP\_2018\_39152\_60743.jpg



Flapgate on concrete headwall at WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	6.39	Rating **	M	Issue No.	1211
LM End	6.39	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.304459 °	37.304459 °
				-120.895863 °	-120.895863 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:39154  
DS\_ID:19613  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end next to a 48-inch concrete riser with walkway over the top. Brass cap No. 90 bench mark (BM) on the headwall on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.40)].  
FS Date: 4/8/2014

LM Start	<b>6.39</b>	Rating **	M	Issue No.	<b>1211 (cont)</b>
LM End	<b>6.39</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39154\_60762.jpg



Pipe, flapgate, and concrete headwall on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39154\_60760.jpg



Pipe, flapgate, and concrete headwall on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	6.39	Rating **	M	Issue No.	1211 (cont)	
LM End	6.39	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.304459 °		37.304459 °
				-120.895863 °		-120.895863 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39154 DS_ID:19613 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end next to a 48-inch concrete riser with walkway over the top. Brass cap No. 90 bench mark (BM) on the headwall on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.40)]. FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39154\_60761.jpg



Metal walkway over concrete standpipe next to slide gate on LS toe.

<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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## Lower San Joaquin Levee District

Pipe and flapgate visible at WS toe. Flapgate blocked by sedimentation on WS toe.



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	6.61	Rating **	M	Issue No.	1212 (cont)
LM End	6.61	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.303815 °	37.303815 °
				-120.891955 °	-120.891955 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:49962  
DS\_ID:19614  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 7/19/2016 Same as previous inspection. Outlet and inlet are under water. (DWR UCIP - omagana)4/08/2014 Flapgate blocked by sedimentation at WS toe. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Also recommend clearing vegetation from both waterward and landward toe. (DWR UCIP - omagana)  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.8 feet below the crown. Wooden fence around a 4-foot by 4-foot drop inlet on the landside (LS) toe. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.64)].  
FS Date: 7/19/2016

Photo 3 of 3 : UCIP\_SP\_2018\_49962\_60765.jpg



Wooden barrier around drop inlet on LS toe. Excess vegetation.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	6.86	Rating **	M	Issue No.	1213
LM End	6.86	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.302098 °	37.302098 °
				-120.887943 °	-120.887943 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:50077  
DS\_ID:19615  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 7/19/2016 Potential LS slope damage--difficult to determine due to dense vegetation. Limited access on WS toe due to wire fence. (DWR UCIP - omagana)4/08/2014 Slide gate blocked by debris at LS toe. Flapgate won't close because of debris. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - omagana)  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 10.3 feet below the crown. Slide gate on the landside (LS) toe. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.90)].  
FS Date: 7/19/2016

LM Start	<b>6.86</b>	Rating **	M	Issue No.	<b>1213 (cont)</b>
LM End	<b>6.86</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_50077\_60768.jpg



Pipe, headwall, and flapgate on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_50077\_60767.jpg



Pipe, concrete headwall, and slidegate on LS toe. Debris blocking closure of slidegate.

* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	6.86	Rating **	M	Issue No.	1213 (cont)
LM End	6.86	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.302098 °	37.302098 °
				-120.887943 °	-120.887943 °
DWR ID					

Comment Code
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Inspector Comment
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FS\_ID:50077  
DS\_ID:19615  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 7/19/2016 Potential LS slope damage--difficult to determine due to dense vegetation. Limited access on WS toe due to wire fence. (DWR UCIP - omagana)4/08/2014 Slide gate blocked by debris at LS toe. Flapgate won't close because of debris. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - omagana)  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 10.3 feet below the crown. Slide gate on the landside (LS) toe. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.90)].  
FS Date: 7/19/2016

Photo 3 of 3 : UCIP\_SP\_2018\_50077\_75470.jpg



View of WS--fence limits access to flap gate.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	7.18	Rating **	M	Issue No.	1214 (cont)	
LM End	7.18	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.300055 °	37.300055 °	
				-120.882939 °	-120.882939 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:42851						
DS_ID:19616						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe failing and corroded through at LS toe. Need to contact owner to determine status of crossing. Also dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 5.1 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 90 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.21)].						
FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_42851\_60771.jpg



Pipe and Concrete headwall visible on LS toe.

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

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

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	7.42	Rating **	M	Issue No.	1216
LM End	7.42	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.299817 °	37.299817 °
				-120.878519 °	-120.878519 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39161  
DS\_ID:19618  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.46)].  
FS Date: 4/8/2014

LM Start	<b>7.42</b>	Rating **	M	Issue No.	<b>1216 (cont)</b>
LM End	<b>7.42</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39161\_60778.jpg



Pipe and flapgate visible on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39161\_60780.jpg



Pipe and flapgate visible on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	7.42	Rating **	M	Issue No.	1216 (cont)	
LM End	7.42	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.299817 °	37.299817 °	
				-120.878519 °	-120.878519 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39161 DS_ID:19618 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.46)]. FS Date: 4/8/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39161\_60779.jpg



Concrete headwall and pipe visible off LS toe in heavy vegetation.

LM Start	7.65	Rating **	M	Issue No.	1217	
LM End	7.65	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.299211 °	37.299211 °	
				-120.874415 °	-120.874415 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39243						
DS_ID:19619						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.69)].						
FS Date: 4/8/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39243\_60842.jpg



Flapgate and headwall at WS toe. Heavy vegetation on slopes.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.03	Rating **	M	Issue No.	1218
LM End	8.03	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.298711 °	37.298711 °
				-120.867756 °	-120.867756 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39244  
DS\_ID:19620  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.07)].  
FS Date: 4/9/2014

LM Start	<b>8.03</b>	Rating **	M	Issue No.	<b>1218 (cont)</b>
LM End	<b>8.03</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39244\_60844.jpg



Pipe, Headwall, and flapgate at WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39244\_60847.jpg



Pipe, Headwall, and flapgate at WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.03	Rating **	M	Issue No.	1218 (cont)	
LM End	8.03	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.298711 °		37.298711 °
				-120.867756 °		-120.867756 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39244 DS_ID:19620 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.07)]. FS Date: 4/9/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39244\_60846.jpg



Pipe and concrete headwall on LS toe.

LM Start	8.13	Rating **	C	Issue No.	110
LM End	8.38	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.298115 °	37.296661 °
				-120.866122 °	-120.862009 °
DWR ID	DWR_NA0010_01_f_2017_110				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.38	Rating **	M	Issue No.	1219
LM End	8.38	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.296637 °	37.296637 °
				-120.861994 °	-120.861994 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:39245  
DS\_ID:19621  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup at landward toe.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.41)].  
FS Date: 4/9/2014

LM Start	<b>8.38</b>	Rating **	M	Issue No.	<b>1219 (cont)</b>
LM End	<b>8.38</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39245\_60850.jpg



Concrete headwall, pipe, and flapgate at WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39245\_60848.jpg



Concrete headwall, pipe, and flapgate at WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.38	Rating **	M	Issue No.	1219 (cont)	
LM End	8.38	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.296637 °	37.296637 °	
				-120.861994 °	-120.861994 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39245 DS_ID:19621 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup at landward toe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.41)]. FS Date: 4/9/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39245\_60849.jpg



Pipe and concrete headwall at LS toe. Note heavy vegetation.

LM Start	8.55	Rating **	M	Issue No.	12
LM End	8.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.296489 °	37.296764 °
				-120.859081 °	-120.857635 °
DWR ID	DWR_NA0010_01_s_2018_12				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.57	Rating **	A/W	Issue No.	1220
LM End	8.57	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.296552 °	37.296552 °
				-120.858596 °	-120.858596 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39246					
DS_ID:19622					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through the levee, 9 feet below the crown. Flap gate on the waterside					
(WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the					
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE					
San Joaquin O&M Manual 601.1, 1967, (HLM 8.61)].					
FS Date: 4/9/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39246\_60854.jpg



Pipe, Flapgate, and headwall on WS toe.

LM Start	<b>8.57</b>	Rating **	A/W	Issue No.	<b>1220 (cont)</b>
LM End	<b>8.57</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39246\_60855.jpg



Pipe, Flapgate, and headwall on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.57	Rating **	A/W	Issue No.	1220 (cont)	
LM End	8.57	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.296552 °	37.296552 °	
				-120.858596 °	-120.858596 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39246						
DS_ID:19622						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 9 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 8.61)].						
FS Date: 4/9/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39246\_60853.jpg



Pipe and headwall at LS toe.

LM Start	8.89	Rating **	M	Issue No.	1221
LM End	8.89	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.297296 °	37.297296 °
				-120.852871 °	-120.852871 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39247					
DS_ID:19623					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.1 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.93)].					
FS Date: 4/9/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39247\_60859.jpg



Pipe, flapgate, and headwall on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.89	Rating **	M	Issue No.	1221 (cont)
LM End	8.89	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.297296 °	37.297296 °
				-120.852871 °	-120.852871 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39247  
DS\_ID:19623  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.1 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.93)].  
FS Date: 4/9/2014

LM Start	<b>8.89</b>	Rating **	M	Issue No.	<b>1221 (cont)</b>
LM End	<b>8.89</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39247\_60860.jpg



Pipe, flapgate, and headwall on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39247\_60858.jpg



Pipe and headwall visible on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.97	Rating **	M	Issue No.	1223
LM End	8.97	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.297425 °	37.297425 °
				-120.851522 °	-120.851522 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39249  
DS\_ID:19625  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Some sediment buildup in pipe.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.00)].  
FS Date: 4/9/2014

LM Start	<b>8.97</b>	Rating **	M	Issue No.	<b>1223 (cont)</b>
LM End	<b>8.97</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39249\_60870.jpg



Pipe and flapgate visible on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39249\_60869.jpg



Pipe and flapgate visible on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.97	Rating **	M	Issue No.	1223 (cont)	
LM End	8.97	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.297425 °	37.297425 °	
				-120.851522 °	-120.851522 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39249						
DS_ID:19625						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Some sediment buildup in pipe.						
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.00)].						
FS Date: 4/9/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39249\_60868.jpg



Pipe and headwall visible on LS toe.

LM Start	8.99	Rating **	M	Issue No.	1224	
LM End	8.99	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.297488 °		37.297488 °
				-120.851157 °		-120.851157 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39250						
DS_ID:19626						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.03)].						
FS Date: 4/9/2014						

Photo 1 of 2 : UCIP\_SP\_2018\_39250\_60872.jpg



Heavy vegetation on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.99	Rating **	M	Issue No.	1224 (cont)	
LM End	8.99	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.297488 °		37.297488 °
				-120.851157 °		-120.851157 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39250 DS_ID:19626 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.03)]. FS Date: 4/9/2014						

Photo 2 of 2 : UCIP\_SP\_2018\_39250\_60871.jpg



Pipe, concrete headwall, and flapgate at WS toe.

LM Start	8.99	Rating **	U	Issue No.	92
LM End	9.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.297497 °	37.295310 °
				-120.851068 °	-120.843918 °
DWR ID	DWR_NA0010_01_s_2017_92				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_118\_92\_20180307\_00017.jpg



Looking southwest at dense veg on waterward slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	8.99	Rating **	U	Issue No.	6
LM End	9.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.297497°	37.295138°
				-120.851068°	-120.840857°
DWR ID	DWR_NA0010_01_s_2017_6				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_118\_6\_20180307\_00004.jpg



Looking south at dense veg on landward slope.

LM Start	9.10	Rating **	C	Issue No.	117
LM End	9.78	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.296725 °	37.293077 °
				-120.849438 °	-120.839170 °
DWR ID	DWR_NA0010_01_s_2012_117				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					
Control vegetation on levee crown.					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	9.34	Rating **	M	Issue No.	1225 (cont)	
LM End	9.34	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.295413 °	37.295413 °	
				-120.845664 °	-120.845664 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39251 DS_ID:19627 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8.6 feet below the crown. Concrete drop inlet at the landside (LS) toe. Flap gate on the waterside (WS) end. Brass cap No. 80 bench mark (BM) on the headwall on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.37)]. FS Date: 4/9/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39251\_60874.jpg



Concrete drop-inlet installed on pipe at LS toe.

LM Start	9.36	Rating **	A/W	Issue No.	111
LM End	9.42	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.295350 °	37.295282 °
				-120.845243 °	-120.844089 °
DWR ID	DWR_NA0010_01_f_2017_111				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Repair potholes and ruts in crown..					

No Photos

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	9.57	Rating **	A/W	Issue No.	14
LM End	9.57	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.295517 °	37.295517 °
				-120.841452 °	-120.841452 °
DWR ID	DWR_NA0010_01_s_2015_14				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Depression greater than 3" deep by 18" wide by 18" long on levee crown					

Photo 1 of 3 : SP\_2018\_NA0010\_118\_14\_20180307\_00010.jpg



Looking at depression on levee crown. (Fall 2015)

LM Start	<b>9.57</b>	Rating **	A/W	Issue No.	<b>14 (cont)</b>
LM End	<b>9.57</b>	Issue Type +	Ma	Location *	CR

Photo 2 of 3 : SP\_2018\_NA0010\_118\_14\_20180307\_00011.jpg



Looking west at depression greater than three inches on levee crown.

LM Start	<b>9.57</b>	Rating **	A/W	Issue No.	<b>14 (cont)</b>
LM End	<b>9.57</b>	Issue Type +	Ma	Location *	CR

Photo 3 of 3 : SP\_2018\_NA0010\_118\_14\_20180307\_00012.jpg



Looking west at depression on 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	10.20	Rating **	M	Issue No.	1227	
LM End	10.20	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.287511 °	37.287511 °	
				-120.840251 °	-120.840251 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39253						
DS_ID:19629						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation blocks waterward and landward toes Recommend removing vegetation from both toes. Also sediment buildup in pipe visible from landward side.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 69 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 10.23)].						
FS Date: 4/9/2014						

LM Start	10.20	Rating **	M	Issue No.	1227 (cont)
LM End	10.20	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39253\_60884.jpg



Pipe, headwall, and flapgate on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39253\_60886.jpg



Pipe, headwall, and flapgate at WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	10.20	Rating **	M	Issue No.	1227 (cont)	
LM End	10.20	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.287511 °	37.287511 °	
				-120.840251 °	-120.840251 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39253 DS_ID:19629 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation blocks waterward and landward toes Recommend removing vegetation from both toes. Also sediment buildup in pipe visible from landward side. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 69 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 10.23)]. FS Date: 4/9/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39253\_60885.jpg



Pipe and headwall at LS toe.

LM Start	10.68	Rating **	A/W	Issue No.	1228	
LM End	10.68	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.283740 °	37.283740 °	
				-120.833452 °	-120.833452 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33687						
DS_ID:19630						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 7 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 68 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 10.72)].						
FS Date: 4/9/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_33687\_60890.jpg



Pipe and flapgate on Ws toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	10.68	Rating **	A/W	Issue No.	1228 (cont)
LM End	10.68	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.283740 °	37.283740 °
				-120.833452 °	-120.833452 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33687					
DS_ID:19630					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 68 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 10.72)].					
FS Date: 4/9/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_33687\_60889.jpg



Pipe and headwall on LS toe.

LM Start	<b>10.68</b>	Rating **	A/W	Issue No.	<b>1228 (cont)</b>
LM End	<b>10.68</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_33687\_60888.jpg



Pipe and headwall on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	10.69	Rating **	A/W	Issue No.	1229
LM End	10.69	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.283710 °	37.283710 °
				-120.833329 °	-120.833329 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39254					
DS_ID:19631					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 67 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 10.72)].					
FS Date: 4/9/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39254\_60894.jpg



Headwall, pipe, and flapgate on WS toe.

LM Start	<b>10.69</b>	Rating **	A/W	Issue No.	<b>1229 (cont)</b>
LM End	<b>10.69</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39254\_60893.jpg



Headwall, pipe, and flapgate on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	10.69	Rating **	A/W	Issue No.	1229 (cont)	
LM End	10.69	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.283710 °	37.283710 °	
				-120.833329 °	-120.833329 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39254						
DS_ID:19631						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 7 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 67 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 10.72)].						
FS Date: 4/9/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39254\_60895.jpg



Concrete pipe visible on LS slope.

LM Start	10.98	Rating **	M	Issue No.	1230
LM End	10.98	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.282627 °	37.282627 °
				-120.828233 °	-120.828233 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39255					
DS_ID:19632					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation blocks landward headwall.					
Recommend removing excess vegetation on landward toe.					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through the levee, 6 feet below the crown. Flap gate on the waterside					
(WS) end. Brass cap No. 66 bench mark (BM) on the headwall on the					
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE					
San Joaquin O&M Manual 601.1, 1967, (HLM 11.00)].					
FS Date: 4/9/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39255\_60897.jpg



Pipe, headwall, and flapgate on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	10.98	Rating **	M	Issue No.	1230 (cont)
LM End	10.98	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.282627 °	37.282627 °
				-120.828233 °	-120.828233 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39255 DS_ID:19632 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation blocks landward headwall. Recommend removing excess vegetation on landward toe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 66 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.00)]. FS Date: 4/9/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_39255\_60899.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	<b>10.98</b>	Rating **	M	Issue No.	<b>1230 (cont)</b>
LM End	<b>10.98</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39255\_60898.jpg



Pipe and headwall on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	11.14	Rating **	A/W	Issue No.	1231
LM End	11.14	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.281813 °	37.281813 °
				-120.825409 °	-120.825409 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33690 DS_ID:19633 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 65 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.18)]. FS Date: 4/9/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33690\_60903.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	11.14	Rating **	A/W	Issue No.	1231 (cont)
LM End	11.14	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33690\_60902.jpg



Pipe and headwall at LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	11.14	Rating **	A/W	Issue No.	1231 (cont)	
LM End	11.14	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.281813 °	37.281813 °	
				-120.825409 °	-120.825409 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33690						
DS_ID:19633						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 5 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 65 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 11.18)].						
FS Date: 4/9/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33690\_60901.jpg



Pipe and headwall at LS toe.

LM Start	11.37	Rating **	A/W	Issue No.	1232
LM End	11.37	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.275518 °	37.275518 °
				-120.826052 °	-120.826052 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47100					
DS_ID:19814					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through levee, 12 feet below the crown. Two metal cutoff walls. Flap					
gate on the waterside (WS) end. Concrete headwall on the landside					
(LS) end. Concrete saddle and apron on the WS end. [Additional					
Reference(s): DWR Levee Log, 2002].					
FS Date: 4/18/2014					

No Photos

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	11.49	Rating **	M	Issue No.	1233
LM End	11.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.273787 °	37.273787 °
				-120.825519 °	-120.825519 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36103 DS_ID:19634 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner--landward side has been buried. It appears that soil was removed from levee toe, immediately upstream, and used to pile soil at landward side at crossing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 62 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.48)]. FS Date: 4/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36103\_65362.jpg



View of waterward side.

LM Start	<b>11.49</b>	Rating **	M	Issue No.	<b>1233 (cont)</b>
LM End	<b>11.49</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36103\_65364.jpg



View of concrete headwall and flap gate visible on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	11.49	Rating **	M	Issue No.	1233 (cont)	
LM End	11.49	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.273787 °	37.273787 °	
				-120.825519 °	-120.825519 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36103 DS_ID:19634 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner--landward side has been buried. It appears that soil was removed from levee toe, immediately upstream, and used to pile soil at landward side at crossing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 62 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.48)]. FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36103\_65363.jpg



Inside view of pipe from waterward side.

LM Start	11.78	Rating **	M	Issue No.	1234	
LM End	11.78	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.269701 °		37.269701 °
				-120.826450 °		-120.826450 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36105 DS_ID:19635 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing is non-functional --landward side is buried. Debris found on landward side (channel). Dense vegetation found on waterward slope. Recommend contacting owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 17 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 61 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.76)]. FS Date: 4/25/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36105\_65372.jpg



View of waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	11.78	Rating **	M	Issue No.	1234 (cont)
LM End	11.78	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.269701 °	37.269701 °
				-120.826450 °	-120.826450 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36105  
DS\_ID:19635  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Crossing is non-functional --landward side is buried. Debris found on landward side (channel). Dense vegetation found on waterward slope. Recommend contacting owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 17 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 61 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.76)].  
FS Date: 4/25/2014

LM Start	<b>11.78</b>	Rating **	M	Issue No.	<b>1234 (cont)</b>
LM End	<b>11.78</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36105\_65371.jpg



Landward side of crossing buried--damage pipe section visible on landward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36105\_65373.jpg



View of landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	12.12	Rating **	M	Issue No.	1235
LM End	12.12	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.265336 °	37.265336 °
				-120.826591 °	-120.826591 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36106 DS_ID:19636 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing is non-functional --landward side is buried. Dense vegetation found on waterward slope. Recommend contacting owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 12.11)]. FS Date: 4/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36106\_65378.jpg



View of waterward side--flap gate visible on waterward toe.

LM Start	12.12	Rating **	M	Issue No.	1235 (cont)
LM End	12.12	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36106\_65379.jpg



Flap gate and concrete headwall visible on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	12.12	Rating **	M	Issue No.	1235 (cont)	
LM End	12.12	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.265336 °		37.265336 °
				-120.826591 °		-120.826591 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36106						
DS_ID:19636						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Crossing is non-functional --landward side is buried.						
Dense vegetation found on waterward slope. Recommend contacting owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 12.11)].						
FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36106\_65377.jpg



View of landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	12.95	Rating **	M	Issue No.	1236
LM End	12.95	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.256873 °	37.256873 °
				-120.821277 °	-120.821277 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:36146  
DS\_ID:19637  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Concrete headwall on landward side blocked by debris. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of crossing.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 12.94)].  
FS Date: 4/25/2014

LM Start	<b>12.95</b>	Rating **	M	Issue No.	<b>1236 (cont)</b>
LM End	<b>12.95</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36146\_65412.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36146\_65411.jpg



Flap gate and concrete headwall visible on waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	12.95	Rating **	M	Issue No.	1236 (cont)
LM End	12.95	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.256873 °	37.256873 °
				-120.821277 °	-120.821277 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36146 DS_ID:19637 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Concrete headwall on landward side blocked by debris. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of crossing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 12.94)]. FS Date: 4/25/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_36146\_65410.jpg



View of landward side--concrete headwall visible covered by dense vegetation.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	13.49	Rating **	M	Issue No.	1237
LM End	13.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.251590 °	37.251590 °
				-120.814354 °	-120.814354 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36109 DS_ID:19638 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Concrete headwall blocked by debris located on landward toe. Recommend clearing debris from landward slope and toe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 14.2 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.48)]. FS Date: 4/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36109\_65389.jpg



View of waterward side.

LM Start	<b>13.49</b>	Rating **	M	Issue No.	<b>1237 (cont)</b>
LM End	<b>13.49</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36109\_65387.jpg



View of flap gate and pipe through levee on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	13.49	Rating **	M	Issue No.	1237 (cont)	
LM End	13.49	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.251590 °		37.251590 °
				-120.814354 °		-120.814354 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36109 DS_ID:19638 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Concrete headwall blocked by debris located on landward toe. Recommend clearing debris from landward slope and toe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 14.2 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.48)]. FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36109\_65388.jpg



View of landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	13.59	Rating **	M	Issue No.	1238
LM End	13.59	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.250138 °	37.250138 °
				-120.814720 °	-120.814720 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39256  
DS\_ID:19639  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: No access to waterward toe due to fence. Unable to find the concrete headwall and flap gate on waterward side past fence. Also dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Also need access past fence on waterward side.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 14.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.58)].  
FS Date: 4/25/2014

LM Start	<b>13.59</b>	Rating **	M	Issue No.	<b>1238 (cont)</b>
LM End	<b>13.59</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39256\_65418.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_39256\_65417.jpg



Dense vegetation on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	13.59	Rating **	M	Issue No.	1238 (cont)	
LM End	13.59	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.250138 °	37.250138 °	
				-120.814720 °	-120.814720 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39256 DS_ID:19639 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No access to waterward toe due to fence. Unable to find the concrete headwall and flap gate on waterward side past fence. Also dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Also need access past fence on waterward side. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 14.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.58)]. FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39256\_65416.jpg



Concrete headwall visible from landward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	14.22	Rating **	M	Issue No.	1240
LM End	14.22	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		37.242225 °	37.242225 °	
			-120.817665 °	-120.817665 °	
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36166  
DS\_ID:19641  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 14.21)].  
FS Date: 4/25/2014

LM Start	14.22	Rating **	M	Issue No.	1240 (cont)
LM End	14.22	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36166\_65449.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36166\_65452.jpg



View of concrete headwall, concrete apron, and flap gate on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	14.22	Rating **	M	Issue No.	1240 (cont)	
LM End	14.22	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.242225 °	37.242225 °	
				-120.817665 °	-120.817665 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36166 DS_ID:19641 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 14.21)]. FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36166\_65448.jpg



View of landward side.

LM Start	14.65	Rating **	M	Issue No.	1241	
LM End	14.65	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.237584 °		37.237584 °
				-120.812967 °		-120.812967 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36167 DS_ID:19642 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope and toe. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 14.65)]. FS Date: 4/25/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36167\_65455.jpg



View of waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	14.65	Rating **	M	Issue No.	1241 (cont)
LM End	14.65	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.237584 °	37.237584 °
				-120.812967 °	-120.812967 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:36167  
DS\_ID:19642  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope and toe. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 14.65)].  
FS Date: 4/25/2014

LM Start	<b>14.65</b>	Rating **	M	Issue No.	<b>1241 (cont)</b>
LM End	<b>14.65</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36167\_65454.jpg



Flap gate, concrete headwall, and concrete apron located on waterward toe.

Photo 3 of 3 : UCIP\_SP\_2018\_36167\_65453.jpg



Concrete headwall located on landward toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	15.29	Rating **	M	Issue No.	1242
LM End	15.29	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		37.231428 °	37.231428 °	
			-120.805543 °	-120.805543 °	
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36168  
DS\_ID:19643  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.29)].  
FS Date: 4/25/2014

LM Start	15.29	Rating **	M	Issue No.	1242 (cont)
LM End	15.29	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36168\_65459.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36168\_65457.jpg



Concrete headwall, flap gate, and concrete apron located on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	15.29	Rating **	M	Issue No.	1242 (cont)	
LM End	15.29	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.231428 °	37.231428 °	
				-120.805543 °	-120.805543 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36168 DS_ID:19643 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.29)]. FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36168\_65458.jpg



View of landward side.

LM Start	15.58	Rating **	M	Issue No.	1243	
LM End	15.58	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.228155 °		37.228155 °
				-120.802645 °		-120.802645 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36169 DS_ID:19644 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.57)]. FS Date: 4/25/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36169\_65464.jpg



View of waterward side--flap gate visible through dense vegetation.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	15.58	Rating **	M	Issue No.	1243 (cont)
LM End	15.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.228155 °	37.228155 °
				-120.802645 °	-120.802645 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36169  
DS\_ID:19644  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.57)].  
FS Date: 4/25/2014

LM Start	<b>15.58</b>	Rating **	M	Issue No.	<b>1243 (cont)</b>
LM End	<b>15.58</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36169\_65463.jpg



View of waterward slope covered by dense vegetation.

Photo 3 of 3 : UCIP\_SP\_2018\_36169\_65462.jpg



Concrete headwall visible on landward toe--dense vegetation blocking inlet.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	15.82	Rating **	M	Issue No.	1244
LM End	15.82	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.226099 °	37.226099 °
				-120.799125 °	-120.799125 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36171  
DS\_ID:19645  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.81)].  
FS Date: 4/25/2014

LM Start	<b>15.82</b>	Rating **	M	Issue No.	<b>1244 (cont)</b>
LM End	<b>15.82</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36171\_65471.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36171\_65470.jpg



Flap gate visible on waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	15.82	Rating **	M	Issue No.	1244 (cont)	
LM End	15.82	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.226099 °		37.226099 °
				-120.799125 °		-120.799125 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36171 DS_ID:19645 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 60 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.81)]. FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36171\_65469.jpg



Side view of pipe and flap gate on waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	16.09	Rating **	M	Issue No.	1245	
LM End	16.09	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.224157 °	37.224157 °	
				-120.795250 °	-120.795250 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36172 DS_ID:19646 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 16.09)]. FS Date: 4/25/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36172\_65476.jpg



View of waterward side.

LM Start	<b>16.09</b>	Rating **	M	Issue No.	<b>1245 (cont)</b>
LM End	<b>16.09</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36172\_65475.jpg



Flap gate visible on waterward toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	16.09	Rating **	M	Issue No.	1245 (cont)	
LM End	16.09	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.224157 °		37.224157 °
				-120.795250 °		-120.795250 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36172						
DS_ID:19646						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 16.09)].						
FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36172\_65474.jpg



View of landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	16.15	Rating **	M	Issue No.	1246
LM End	16.15	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.224120 °	37.224120 °
				-120.794002 °	-120.794002 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39257  
DS\_ID:19647  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Unable to find pipe on landward side.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 14.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 16.15)].  
FS Date: 4/25/2014

LM Start	<b>16.15</b>	Rating **	M	Issue No.	<b>1246 (cont)</b>
LM End	<b>16.15</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39257\_65480.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_39257\_65479.jpg



Crossing visible on waterward side under dense vegetation.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	16.72	Rating **	M	Issue No.	1247
LM End	16.72	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.224223 °	37.224223 °
				-120.783806 °	-120.783806 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39258  
DS\_ID:19648  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Unable to find pipe on landward side.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.4 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 16.72)].  
FS Date: 4/25/2014

LM Start	<b>16.72</b>	Rating **	M	Issue No.	<b>1247 (cont)</b>
LM End	<b>16.72</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39258\_66288.jpg



View of levee crown at crossing.

Photo 2 of 3 : UCIP\_SP\_2018\_39258\_66289.jpg



View of waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	16.72	Rating **	M	Issue No.	1247 (cont)
LM End	16.72	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.224223 °	37.224223 °
				-120.783806 °	-120.783806 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39258  
DS\_ID:19648  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Unable to find pipe on landward side.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.4 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 16.72)].  
FS Date: 4/25/2014

Photo 3 of 3 : UCIP\_SP\_2018\_39258\_66287.jpg



View of flap gate visible on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	17.01	Rating **	M	Issue No.	1249
LM End	17.01	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.221838 °	37.221838 °
				-120.780230 °	-120.780230 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39259  
DS\_ID:19577  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Concrete headwall is buried by dense vegetation. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.01)].  
FS Date: 4/25/2014

LM Start	<b>17.01</b>	Rating **	M	Issue No.	<b>1249 (cont)</b>
LM End	<b>17.01</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39259\_65518.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_39259\_65519.jpg



Flap gate visible on waterward side.

* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	17.01	Rating **	M	Issue No.	1249 (cont)	
LM End	17.01	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.221838 °	37.221838 °	
				-120.780230 °	-120.780230 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39259 DS_ID:19577 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Concrete headwall is buried by dense vegetation. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.01)]. FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39259\_65517.jpg



View of landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	17.19	Rating **	M	Issue No.	1250
LM End	17.19	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.219302 °	37.219302 °
				-120.779475 °	-120.779475 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39260  
DS\_ID:19578  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup inside pipe visible from landward side. Recommend clearing pipe.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.19)].  
FS Date: 4/25/2014

LM Start	17.19	Rating **	M	Issue No.	1250 (cont)
LM End	17.19	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39260\_65525.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_39260\_65521.jpg



Pipe visible on waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	17.19	Rating **	M	Issue No.	1250 (cont)	
LM End	17.19	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.219302 °	37.219302 °	
				-120.779475 °	-120.779475 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39260 DS_ID:19578 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup inside pipe visible from landward side. Recommend clearing pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.19)]. FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39260\_65520.jpg



Flap gate visible on waterward toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	17.26	Rating **	M	Issue No.	1251
LM End	17.26	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.218332 °	37.218332 °
				-120.779459 °	-120.779459 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36203 DS_ID:19579 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 15.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.26)]. FS Date: 4/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36203\_65551.jpg



View of waterward slope.

LM Start	17.26	Rating **	M	Issue No.	1251 (cont)
LM End	17.26	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36203\_65552.jpg



Pipe visible on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	17.52	Rating **	M	Issue No.	1252
LM End	17.52	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		37.215976°	37.215976°	
			-120.777615°	-120.777615°	
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36204  
DS\_ID:19580  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.53)].  
FS Date: 4/25/2014

LM Start	17.52	Rating **	M	Issue No.	1252 (cont)
LM End	17.52	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36204\_65547.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36204\_65546.jpg



Flap gate visible on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	17.52	Rating **	M	Issue No.	1252 (cont)	
LM End	17.52	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.215976 °	37.215976 °	
				-120.777615 °	-120.777615 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36204						
DS_ID:19580						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.						
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.53)].						
FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36204\_65545.jpg



View of landward side--riser at levee toe.

LM Start	18.18	Rating **	M	Issue No.	1253	
LM End	18.18	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.210998 °		37.210998 °
				-120.768900 °		-120.768900 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39261						
DS_ID:19581						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner. Recommend investigating integrity of pipe wall through levee heavy corrosion visible from landward side.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 18.19)].						
FS Date: 4/25/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39261\_65557.jpg



View of waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	18.18	Rating **	M	Issue No.	1253 (cont)	
LM End	18.18	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.210998 °	37.210998 °	
				-120.768900 °	-120.768900 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39261 DS_ID:19581 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend investigating integrity of pipe wall through levee heavy corrosion visible from landward side. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 18.19)]. FS Date: 4/25/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39261\_65556.jpg



Flap gate visible on waterward side.

LM Start	<b>18.18</b>	Rating **	M	Issue No.	<b>1253 (cont)</b>
LM End	<b>18.18</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39261\_65555.jpg



View of landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	18.45	Rating **	A/W	Issue No.	1254	
LM End	18.45	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.207538 °	37.207538 °	
				-120.767679 °	-120.767679 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36206						
DS_ID:19582						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 9.4 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 18.45)].						
FS Date: 4/25/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36206\_65563.jpg



View of waterward side.

LM Start	<b>18.45</b>	Rating **	A/W	Issue No.	<b>1254 (cont)</b>
LM End	<b>18.45</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36206\_65562.jpg



View of waterward slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	18.79	Rating **	M	Issue No.	1255 (cont)
LM End	18.79	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.204966 °	37.204966 °
				-120.762511 °	-120.762511 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:36246  
DS\_ID:19593  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 50 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 18.79)].  
FS Date: 4/25/2014

LM Start	<b>18.79</b>	Rating **	M	Issue No.	<b>1255 (cont)</b>
LM End	<b>18.79</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36246\_65623.jpg



View of waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36246\_65626.jpg



Overview of landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	18.79	Rating **	U	Issue No.	94
LM End	18.79	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.204913 °	37.204913 °
				-120.762412 °	-120.762412 °
DWR ID	DWR_NA0010_01_s_2018_94				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several large rodent holes on landward slope.					

LM Start	<b>18.79</b>	Rating **	U	Issue No.	<b>94 (cont)</b>
LM End	<b>18.79</b>	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP\_2018\_NA0010\_118\_94\_20180420\_00274.jpg



Looking at large rodent hole on landward slope. (Spring 2018)

Photo 2 of 2 : SP\_2018\_NA0010\_118\_94\_20180420\_00275.jpg



Looking at typical view of rodent holes with this section. (Spring 2018)

* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	19.53	Rating **	M	Issue No.	1259
LM End	19.53	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.199427 °	37.199427 °
				-120.760235 °	-120.760235 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39268  
DS\_ID:19596  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Dense vegetation blocks both waterward and landward headwalls. Sediment buildup in pipe visible from landward side.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.54)].  
FS Date: 4/25/2014

LM Start	<b>19.53</b>	Rating **	M	Issue No.	<b>1259 (cont)</b>
LM End	<b>19.53</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39268\_65641.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_39268\_65640.jpg



Flap gate visible on waterward side--potential erosion present on slope.

* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	19.53	Rating **	M	Issue No.	1259 (cont)	
LM End	19.53	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.199427 °	37.199427 °	
				-120.760235 °	-120.760235 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39268						
DS_ID:19596						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope.						
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Dense vegetation blocks both waterward and landward headwalls. Sediment buildup in pipe visible from landward side.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.54)].						
FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39268\_65639.jpg



View of landward slope.

LM Start	20.18	Rating **	M	Issue No.	1261	
LM End	20.18	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.194669 °		37.194669 °
				-120.759736 °		-120.759736 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39269 DS_ID:19598 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Recommend removing vegetation and sediment buildup from both waterward and landward concrete headwalls. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 20.18)]. FS Date: 4/25/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39269\_65648.jpg



Enter photo 1 description or comment here.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	20.18	Rating **	M	Issue No.	1261 (cont)
LM End	20.18	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.194669 °	37.194669 °
				-120.759736 °	-120.759736 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39269 DS_ID:19598 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Recommend removing vegetation and sediment buildup from both waterward and landward concrete headwalls. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 20.18)]. FS Date: 4/25/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_39269\_65647.jpg



Enter photo 2 description or comment here.

LM Start	<b>20.18</b>	Rating **	M	Issue No.	<b>1261 (cont)</b>
LM End	<b>20.18</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39269\_65646.jpg



Enter photo 3 description or comment here.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	20.27	Rating **	M	Issue No.	1264
LM End	20.27	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.193542 °	37.193542 °
				-120.760300 °	-120.760300 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39878  
DS\_ID:19600  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Crossing partially submersed--no signs of failure of pipe present along pipe alignment. Recommend contacting owner to determine status of crossing and condition.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 20.27)].  
FS Date: 4/25/2014

LM Start	<b>20.27</b>	Rating **	M	Issue No.	<b>1264 (cont)</b>
LM End	<b>20.27</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39878\_66308.jpg



Overview of levee crown at crossing--multiple crossings at this location.

Photo 2 of 3 : UCIP\_SP\_2018\_39878\_66309.jpg



Multiple crossings visible on waterward side--36 inch CMP is submersed in water.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	20.27	Rating **	M	Issue No.	1264 (cont)	
LM End	20.27	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.193542 °	37.193542 °	
				-120.760300 °	-120.760300 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39878 DS_ID:19600 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing partially submersed--no signs of failure of pipe present along pipe alignment. Recommend contacting owner to determine status of crossing and condition. FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 20.27)]. FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39878\_66307.jpg



View of landward side.

LM Start	21.24	Rating **	U	Issue No.	8
LM End	22.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.181042 °	37.167498 °
				-120.762886 °	-120.750862 °
DWR ID	DWR_NA0010_01_f_2015_8				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation on waterside slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_118\_8\_20180307\_00005.jpg



Looking downstream at dense veg on waterward slope.

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

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

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	21.40	Rating **	M	Issue No.	1266
LM End	21.40	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.179065 °	37.179065 °
				-120.761567 °	-120.761567 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39271 DS_ID:19603 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing is non-functional--crossing buried on landward side. Need to contact owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 21.40)]. FS Date: 4/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39271\_66312.jpg



View of waterward side.

LM Start	<b>21.40</b>	Rating **	M	Issue No.	<b>1266 (cont)</b>
LM End	<b>21.40</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39271\_66313.jpg



Flap gate half way submersed located on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	21.40	Rating **	M	Issue No.	1266 (cont)	
LM End	21.40	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.179065 °	37.179065 °	
				-120.761567 °	-120.761567 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39271 DS_ID:19603 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing is non-functional--crossing buried on landward side. Need to contact owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment. FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 21.40)]. FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39271\_66311.jpg



View of landward side.

LM Start	21.75	Rating **	M	Issue No.	1267	
LM End	21.75	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.176106 °	37.176106 °	
				-120.756768 °	-120.756768 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39272						
DS_ID:19604						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Non-functional crossing-landward side is buried.						
Need to contact owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 21.76)].						
FS Date: 4/25/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39272\_65697.jpg



View of waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	21.75	Rating **	M	Issue No.	1267 (cont)	
LM End	21.75	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.176106 °	37.176106 °	
				-120.756768 °	-120.756768 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39272						
DS_ID:19604						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Non-functional crossing-landward side is buried.						
Need to contact owner to determine status of crossing. If crossing is no						
longer used need to coordinate with CVFPB for proper abandonment.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 9 feet below the crown. Flap gate on the waterside						
(WS) end. Brass cap No. 40 bench mark (BM) on the headwall on the						
landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 21.76)].						
FS Date: 4/25/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39272\_65695.jpg



Flap gate visible on waterward side.

LM Start	21.75	Rating **	M	Issue No.	1267 (cont)
LM End	21.75	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39272\_65696.jpg



View of landward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	22.12	Rating **	M	Issue No.	1268
LM End	22.12	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.171181°	37.171181°
				-120.754526°	-120.754526°
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39273  
DS\_ID:19605  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Non-functional crossing--landward side is buried.  
Need to contact owner to determine status. If crossing is no longer used need to coordinate with CVFPB for proper abandonment.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Wooden headboards on the landside (LS) end. Brass cap No. 31 bench mark (BM) on the headwall on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 22.13)].  
FS Date: 4/25/2014

LM Start	<b>22.12</b>	Rating **	M	Issue No.	<b>1268 (cont)</b>
LM End	<b>22.12</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39273\_65709.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_39273\_65707.jpg



Flap gate visible on waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	04/04/2018 04/16/2018	Richard Willoughby

LM Start	22.12	Rating **	M	Issue No.	1268 (cont)	
LM End	22.12	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.171181 °	37.171181 °	
				-120.754526 °	-120.754526 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39273						
DS_ID:19605						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Non-functional crossing--landward side is buried.						
Need to contact owner to determine status. If crossing is no longer used						
need to coordinate with CVFPB for proper abandonment.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 9 feet below the crown. Flap gate on the waterside						
(WS) end. Wooden headboards on the landside (LS) end. Brass cap						
No. 31 bench mark (BM) on the headwall on the LS. [Additional						
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M						
Manual 601.1, 1967, (HLM 22.13)].						
FS Date: 4/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39273\_65708.jpg



View of landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	24
LM End	1.02	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296270 °	37.284950 °
				-120.880690 °	-120.871212 °
DWR ID	DWR_NA0010_02A_s_2018_24				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	U	Issue No.	23
LM End	1.02	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296270 °	37.284950 °
				-120.880690 °	-120.871212 °
DWR ID	DWR_NA0010_02A_s_2017_23				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					
Control veg on levee crown and add additional base on levee crown.					

Photo 1 of 1 : SP\_2018\_NA0010\_119\_23\_20180307\_00011.jpg



Looking downstream at overgrown levee crown.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	29	
LM End	7.87	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.296280 °		37.231283 °
				-120.880669 °		-120.811884 °
DWR ID	DWR_NA0010_02A_s_2018_29					
Comment Code						
V1 : Control annual grass and weeds on the levee slopes and easements.						
Inspector Comment						

Photo 1 of 1 : SP\_2018\_NA0010\_119\_29\_20180419\_00072.jpg



Looking south at typical view of landward slope. (Spring 2018)

LM Start	0.00	Rating **	M	Issue No.	30
LM End	7.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296279 °	37.231282 °
				-120.880669 °	-120.811884 °
DWR ID	DWR_NA0010_02A_s_2018_30				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_119\_30\_20180419\_00073.jpg



Looking north at typical view of waterward slope. (Spring 2018)

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.23	Rating **	M	Issue No.	31
LM End	0.23	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.293440 °	37.293440 °
				-120.878978 °	-120.878978 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36503  
DS\_ID:19652  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 139 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.24)].  
FS Date: 5/1/2014

LM Start	<b>0.23</b>	Rating **	M	Issue No.	<b>31 (cont)</b>
LM End	<b>0.23</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36503\_66102.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36503\_66101.jpg



Fence along waterward side. No headwall was found on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.23	Rating **	M	Issue No.	31 (cont)	
LM End	0.23	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.293440 °	37.293440 °	
				-120.878978 °	-120.878978 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36503 DS_ID:19652 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 139 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.24)]. FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36503\_66100.jpg



View of landward side.

LM Start	0.66	Rating **	M	Issue No.	32
LM End	0.66	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.288087 °	37.288087 °
				-120.874919 °	-120.874919 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36504 DS_ID:19653 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 14.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 138 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.67)]. FS Date: 5/1/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36504\_66106.jpg



View of waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.66	Rating **	M	Issue No.	32 (cont)
LM End	0.66	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.288087 °	37.288087 °
				-120.874919 °	-120.874919 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36504  
DS\_ID:19653  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 14.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 138 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.67)].  
FS Date: 5/1/2014

LM Start	<b>0.66</b>	Rating **	M	Issue No.	<b>32 (cont)</b>
LM End	<b>0.66</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36504\_66105.jpg



View of landward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36504\_66104.jpg



Concrete headwall found on landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.72	Rating **	U	Issue No.	5
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.287269 °	37.286543 °
				-120.874491 °	-120.873935 °
DWR ID	DWR_NA0010_02A_s_2012_5				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
A field investigation report in on file. For more information and pictures see field investigation report #4301.					

LM Start	<b>0.72</b>	Rating **	U	Issue No.	<b>5 (cont)</b>
LM End	<b>0.78</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 4 : SP\_2018\_NA0010\_119\_5\_20180307\_00005.jpg



Looking south at large erosion on waterside slope. (Spring 2012)

Photo 2 of 4 : SP\_2018\_NA0010\_119\_5\_20180307\_00006.jpg



Looking north at large erosion on waterward slope. (Fall 2013)

Photo 3 of 4 : SP\_2018\_NA0010\_119\_5\_20180307\_00007.jpg



Looking north at erosion on waterward slope. (Fall 2014)

LM Start	<b>0.72</b>	Rating **	U	Issue No.	<b>5 (cont)</b>
LM End	<b>0.78</b>	Issue Type +	Ma	Location *	WS

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.72	Rating **	U	Issue No.	5 (cont)	
LM End	0.78	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Erosion / Bank Caving			37.287269 °	37.286543 °	
				-120.874491 °	-120.873935 °	
DWR ID	DWR_NA0010_02A_s_2012_5					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
A field investigation report in on file. For more information and pictures see field investigation report #4301.						

Photo 4 of 4 : SP\_2018\_NA0010\_119\_5\_20180307\_00008.jpg



Looking upstream at erosion fall 2017.

LM Start	1.01	Rating **	M	Issue No.	33	
LM End	1.01	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.284889 °	37.284889 °	
				-120.871352 °	-120.871352 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39363 DS_ID:19654 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 137 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.02)]. FS Date: 5/1/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39363\_66113.jpg



View of waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.01	Rating **	M	Issue No.	33 (cont)
LM End	1.01	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.284889 °	37.284889 °
				-120.871352 °	-120.871352 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:39363  
DS\_ID:19654  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe recommend clearing.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 137 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.02)].  
FS Date: 5/1/2014

LM Start	<b>1.01</b>	Rating **	M	Issue No.	<b>33 (cont)</b>
LM End	<b>1.01</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39363\_66112.jpg



Pipe visible on waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_39363\_66111.jpg



Flap gate visible on waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.21	Rating **	M	Issue No.	34
LM End	1.21	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		37.286118 °	37.286118 °	
			-120.868167 °	-120.868167 °	
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36506  
 DS\_ID:19655  
 EP\_NO: N/A  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
 FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 136 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.22)].  
 FS Date: 5/1/2014

LM Start	1.21	Rating **	M	Issue No.	34 (cont)
LM End	1.21	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36506\_66114.jpg



Overview of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36506\_66117.jpg



Flap gate visible on waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.21	Rating **	M	Issue No.	34 (cont)
LM End	1.21	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.286118 °	37.286118 °
				-120.868167 °	-120.868167 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36506  
DS\_ID:19655  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 136 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.22)].  
FS Date: 5/1/2014

Photo 3 of 3 : UCIP\_SP\_2018\_36506\_66116.jpg



View of landward side.

LM Start	1.33	Rating **	M	Issue No.	35
LM End	1.33	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.286463 °	37.286463 °
				-120.865997 °	-120.865997 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36507  
DS\_ID:19656  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 14.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 135 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.34)].  
FS Date: 5/1/2014

Photo 1 of 3 : UCIP\_SP\_2018\_36507\_66120.jpg



View of landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.33	Rating **	M	Issue No.	35 (cont)
LM End	1.33	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.286463 °	37.286463 °
				-120.865997 °	-120.865997 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36507  
DS\_ID:19656  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 14.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 135 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.34)].  
FS Date: 5/1/2014

LM Start	<b>1.33</b>	Rating **	M	Issue No.	<b>35 (cont)</b>
LM End	<b>1.33</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36507\_66119.jpg



View of waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36507\_66118.jpg



Flap gate and concrete apron visible on waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	<b>1.61</b>	Rating **	M	Issue No.	<b>36</b>
LM End	<b>1.61</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		37.288599°	37.288599°	
			-120.862007°	-120.862007°	
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36508  
 DS\_ID:19657  
 EP\_NO: N/A  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
 FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 135 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.62)].  
 FS Date: 5/1/2014

LM Start	<b>1.61</b>	Rating **	M	Issue No.	<b>36 (cont)</b>
LM End	<b>1.61</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36508\_66124.jpg



Overview of landward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36508\_66123.jpg



Dense vegetation along levee slope and toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	<b>1.61</b>	Rating **	M	Issue No.	<b>36 (cont)</b>
LM End	<b>1.61</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		37.288599 °	37.288599 °	
			-120.862007 °	-120.862007 °	
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36508  
DS\_ID:19657  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 135 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.62)].  
FS Date: 5/1/2014

Photo 3 of 3 : UCIP\_SP\_2018\_36508\_66122.jpg



Enter photo 3 description or comment here.

LM Start	<b>1.85</b>	Rating **	M	Issue No.	<b>37</b>
LM End	<b>1.85</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		37.290836 °	37.290836 °	
			-120.858882 °	-120.858882 °	
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36509  
DS\_ID:19658  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 135 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.86)].  
FS Date: 5/1/2014

Photo 1 of 3 : UCIP\_SP\_2018\_36509\_66129.jpg



View of landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.85	Rating **	M	Issue No.	37 (cont)
LM End	1.85	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.290836 °	37.290836 °
				-120.858882 °	-120.858882 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36509  
DS\_ID:19658  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 135 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.86)].  
FS Date: 5/1/2014

LM Start	<b>1.85</b>	Rating **	M	Issue No.	<b>37 (cont)</b>
LM End	<b>1.85</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36509\_66128.jpg



Concrete headwall visible on landward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36509\_66127.jpg



Inside view of pipe from landward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	2.28	Rating **	M	Issue No.	38
LM End	2.28	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.291686 °	37.291686 °
				-120.851475 °	-120.851475 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36510  
DS\_ID:19659  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 135 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.30)].  
FS Date: 5/1/2014

LM Start	<b>2.28</b>	Rating **	M	Issue No.	<b>38 (cont)</b>
LM End	<b>2.28</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36510\_66133.jpg



View of landward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36510\_66132.jpg



Concrete headwall visible on landward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	2.28	Rating **	M	Issue No.	38 (cont)	
LM End	2.28	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.291686 °	37.291686 °	
				-120.851475 °	-120.851475 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36510 DS_ID:19659 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 135 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.30)]. FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36510\_66131.jpg



View of pipe through levee visible on waterward side.

LM Start	2.30	Rating **	M	Issue No.	39	
LM End	2.30	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.291532 °	37.291532 °	
				-120.851203 °	-120.851203 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36511						
DS_ID:19660						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 135 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.32)].						
FS Date: 5/1/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36511\_66137.jpg



View of waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	2.30	Rating **	M	Issue No.	39 (cont)
LM End	2.30	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.291532 °	37.291532 °
				-120.851203 °	-120.851203 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:36511  
DS\_ID:19660  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 135 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.32)].  
FS Date: 5/1/2014

LM Start	<b>2.30</b>	Rating **	M	Issue No.	<b>39 (cont)</b>
LM End	<b>2.30</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36511\_66136.jpg



Flap gate visible on waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36511\_66138.jpg



Overview of landward slope.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	2.58	Rating **	M	Issue No.	40
LM End	2.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.289487 °	37.289487 °
				-120.846941 °	-120.846941 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:36512  
DS\_ID:19661  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 130 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.59)].  
FS Date: 5/1/2014

LM Start	<b>2.58</b>	Rating **	M	Issue No.	<b>40 (cont)</b>
LM End	<b>2.58</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36512\_66142.jpg



View of landward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36512\_66141.jpg



Concrete headwall visible on landward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	2.58	Rating **	M	Issue No.	40 (cont)	
LM End	2.58	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.289487 °	37.289487 °	
				-120.846941 °	-120.846941 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36512						
DS_ID:19661						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 130 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.59)].						
FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36512\_66140.jpg



Non-functional crossing concrete headwall and inlet buried on landward side.

LM Start	2.95	Rating **	M	Issue No.	41
LM End	2.95	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.284326 °	37.284326 °
				-120.845157 °	-120.845157 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36513					
DS_ID:19662					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 130 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.96)].					
FS Date: 5/1/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36513\_66145.jpg



View of waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	2.95	Rating **	M	Issue No.	41 (cont)
LM End	2.95	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.284326 °	37.284326 °
				-120.845157 °	-120.845157 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36513  
DS\_ID:19662  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 130 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.96)].  
FS Date: 5/1/2014

LM Start	<b>2.95</b>	Rating **	M	Issue No.	<b>41 (cont)</b>
LM End	<b>2.95</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36513\_66144.jpg



Flap gate visible on waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36513\_66149.jpg



View of slope on waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	3.28	Rating **	M	Issue No.	42
LM End	3.28	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.279656 °	37.279656 °
				-120.844795 °	-120.844795 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:36514  
DS\_ID:19665  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 130 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.29)].  
FS Date: 5/1/2014

LM Start	<b>3.28</b>	Rating **	M	Issue No.	<b>42 (cont)</b>
LM End	<b>3.28</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36514\_66151.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36514\_66153.jpg



Flap gate visible on waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	3.28	Rating **	M	Issue No.	42 (cont)	
LM End	3.28	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.279656 °	37.279656 °	
				-120.844795 °	-120.844795 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36514 DS_ID:19665 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 130 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.29)]. FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36514\_66152.jpg



View of landward side.

LM Start	3.61	Rating **	M	Issue No.	43	
LM End	3.61	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.278203 °	37.278203 °	
				-120.839884 °	-120.839884 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36515						
DS_ID:19666						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 130 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.62)].						
FS Date: 5/1/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36515\_66155.jpg



View of waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	3.61	Rating **	M	Issue No.	43 (cont)
LM End	3.61	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.278203 °	37.278203 °
				-120.839884 °	-120.839884 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:36515  
DS\_ID:19666  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 130 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.62)].  
FS Date: 5/1/2014

LM Start	<b>3.61</b>	Rating **	M	Issue No.	<b>43 (cont)</b>
LM End	<b>3.61</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36515\_66154.jpg



Flap gate visible on waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36515\_66156.jpg



View of landward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	3.94	Rating **	M	Issue No.	44 (cont)	
LM End	3.94	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.279704 °	37.279704 °	
				-120.834709 °	-120.834709 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39364						
DS_ID:19667						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Signs of erosion or sink hole present on landward toe--Need to contact owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope.						
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 130 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.95)].						
FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39364\_66159.jpg



Flap gate and concrete headwall visible through dense vegetation.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	5.41	Rating **	M	Issue No.	45
LM End	5.41	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.260069 °	37.260069 °
				-120.831768 °	-120.831768 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36517  
DS\_ID:19668  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 125 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.43)].  
FS Date: 5/1/2014

LM Start	<b>5.41</b>	Rating **	M	Issue No.	<b>45 (cont)</b>
LM End	<b>5.41</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36517\_66167.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36517\_66166.jpg



Flap gate visible on waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	5.41	Rating **	M	Issue No.	45 (cont)	
LM End	5.41	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.260069 °		37.260069 °
				-120.831768 °		-120.831768 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36517 DS_ID:19668 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 125 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.43)]. FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36517\_66165.jpg



View of waterward slope covered by vegetation.

LM Start	5.77	Rating **	M	Issue No.	27
LM End	6.01	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.256093 °	37.253815 °
				-120.827484 °	-120.824372 °
DWR ID	DWR_NA0010_02A_f_2017_27				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	6.03	Rating **	M	Issue No.	46
LM End	6.03	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.253527 °	37.253527 °
				-120.823991 °	-120.823991 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36518  
DS\_ID:19669  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 7.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 125 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.06)].  
FS Date: 5/1/2014

LM Start	<b>6.03</b>	Rating **	M	Issue No.	<b>46 (cont)</b>
LM End	<b>6.03</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_36518\_66171.jpg



View of landward side.

Photo 2 of 2 : UCIP\_SP\_2018\_36518\_66170.jpg



View of waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	6.47	Rating **	M	Issue No.	47
LM End	6.47	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.248210 °	37.248210 °
				-120.823120 °	-120.823120 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36519  
DS\_ID:19670  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 7.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 125 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.50)].  
FS Date: 5/1/2014

LM Start	<b>6.47</b>	Rating **	M	Issue No.	<b>47 (cont)</b>
LM End	<b>6.47</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36519\_66173.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36519\_66172.jpg



Crossing and flap gate visible on waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	6.47	Rating **	M	Issue No.	47 (cont)	
LM End	6.47	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.248210 °	37.248210 °	
				-120.823120 °	-120.823120 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36519 DS_ID:19670 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 7.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 125 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.50)]. FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36519\_66174.jpg



Overview of levee crown and landward slope.

LM Start	6.85	Rating **	M	Issue No.	22
LM End	6.85	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.242833 °	37.242833 °
				-120.822270 °	-120.822270 °
DWR ID	DWR_NA0010_02A_f_2016_22				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Noticed several burrow holes on the levee crown. It does not seem to be rodent holes or gopher holes. It could be moles.					

Photo 1 of 2 : SP\_2018\_NA0010\_119\_22\_20180307\_00009.jpg



Looking at rodent hole on levee crown.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	7.02	Rating **	M	Issue No.	48 (cont)	
LM End	7.02	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.240333 °	37.240333 °	
				-120.821490 °	-120.821490 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39365 DS_ID:19671 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Pipe extension visible on landward side--need to contact owner for additional information about extension/modification. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.6 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 125 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.05)]. FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39365\_66176.jpg



View of waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	7.74	Rating **	M	Issue No.	49
LM End	7.74	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.232650 °	37.232650 °
				-120.813363 °	-120.813363 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36521  
DS\_ID:19673  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 125 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.77)].  
FS Date: 5/1/2014

LM Start	<b>7.74</b>	Rating **	M	Issue No.	<b>49 (cont)</b>
LM End	<b>7.74</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36521\_66183.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36521\_66182.jpg



View of landward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	04/16/2018 04/16/2018	Richard Willoughby

LM Start	7.74	Rating **	M	Issue No.	49 (cont)	
LM End	7.74	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.232650 °		37.232650 °
				-120.813363 °		-120.813363 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36521 DS_ID:19673 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 125 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.77)]. FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36521\_66181.jpg



View of waterward side--photo taken from levee toe looking towards alignment of crossing.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	7.87	Rating **	M	Issue No.	16
LM End	8.96	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.231209 °	37.221054 °
				-120.811764 °	-120.796934 °
DWR ID	DWR_NA0010_02B_f_2016_16				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Rutting caused by driving to fast.					

No Photos

LM Start	8.13	Rating **	M	Issue No.	168
LM End	8.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.228343 °	37.228343 °
				-120.808789 °	-120.808789 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39366 DS_ID:19674 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope and landward headwall. Recommend removing vegetation along pipe alignment and toe to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 120 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.16)]. FS Date: 5/14/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39366\_66184.jpg



View of landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	8.13	Rating **	M	Issue No.	168 (cont)
LM End	8.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.228343 °	37.228343 °
				-120.808789 °	-120.808789 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39366  
DS\_ID:19674  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope and landward headwall. Recommend removing vegetation along pipe alignment and toe to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend clearing.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 120 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.16)].  
FS Date: 5/14/2014

LM Start	<b>8.13</b>	Rating **	M	Issue No.	<b>168 (cont)</b>
LM End	<b>8.13</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39366\_66185.jpg



Overview of levee crown at crossing.

Photo 3 of 3 : UCIP\_SP\_2018\_39366\_66186.jpg



View of waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	8.14	Rating **	M	Issue No.	15
LM End	8.14	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.228224 °	37.228224 °
				-120.808622 °	-120.808622 °
DWR ID	DWR_NA0010_02B_f_2017_15				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes on the crown.					

Photo 1 of 1 : SP\_2018\_NA0010\_120\_15\_20180307\_00004.jpg



Looking southeast at the crown.

LM Start	8.22	Rating **	M	Issue No.	22
LM End	13.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.227430 °	37.172238 °
				-120.807532 °	-120.761192 °
DWR ID	DWR_NA0010_02B_s_2018_22				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	8.22	Rating **	M	Issue No.	21
LM End	13.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.227430 °	37.172237 °
				-120.807532 °	-120.761192 °
DWR ID	DWR_NA0010_02B_s_2018_21				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	<b>8.46</b>	Rating **	M	Issue No.	<b>169</b>
LM End	<b>8.46</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		37.225241 °	37.225241 °	
			-120.804286 °	-120.804286 °	
DWR ID					

Comment Code

Inspector Comment

FS\_ID:39367  
DS\_ID:19675  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation on landward toe. Also dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along waterward slope. Recommend removing vegetation along pipe alignment toe to conduct proper inspection of structure. Sediment buildup in pipe--recommend clearing.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.4 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 120 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.48)].  
FS Date: 5/14/2014

LM Start	<b>8.46</b>	Rating **	M	Issue No.	<b>169 (cont)</b>
LM End	<b>8.46</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39367\_66195.jpg



View of landward side.

Photo 2 of 3 : UCIP\_SP\_2018\_39367\_66193.jpg



Overview of levee crown at crossing.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	8.46	Rating **	M	Issue No.	169 (cont)	
LM End	8.46	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.225241 °	37.225241 °	
				-120.804286 °	-120.804286 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39367						
DS_ID:19675						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation on landward toe. Also dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along waterward slope. Recommend removing vegetation along pipe alignment toe to conduct proper inspection of structure. Sediment buildup in pipe--recommend clearing.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.4 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 120 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.48)].						
FS Date: 5/14/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39367\_66194.jpg



View of waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	8.83	Rating **	M	Issue No.	170
LM End	8.83	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.222271 °	37.222271 °
				-120.798705 °	-120.798705 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:42503  
 DS\_ID:19676  
 EP\_NO: N/A  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Burrow activity present on waterward slope.  
 FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 120 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.86)].  
 FS Date: 5/14/2014

LM Start	<b>8.83</b>	Rating **	M	Issue No.	<b>170 (cont)</b>
LM End	<b>8.83</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_42503\_66200.jpg



View of landward side.

Photo 2 of 3 : UCIP\_SP\_2018\_42503\_66199.jpg



View of waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	8.83	Rating **	M	Issue No.	170 (cont)	
LM End	8.83	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.222271 °	37.222271 °	
				-120.798705 °	-120.798705 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:42503 DS_ID:19676 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Burrow activity presen on waterward slope. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 120 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.86)]. FS Date: 5/14/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_42503\_66201.jpg



View of waterward toe.

LM Start	9.00	Rating **	M	Issue No.	171
LM End	9.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.220888 °	37.220888 °
				-120.796394 °	-120.796394 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36525					
DS_ID:19677					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 8.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 120 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.02)].					
FS Date: 5/14/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36525\_66208.jpg



View of waterward side--pipe and flap gate visible.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	9.00	Rating **	M	Issue No.	171 (cont)
LM End	9.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.220888 °	37.220888 °
				-120.796394 °	-120.796394 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36525  
DS\_ID:19677  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 8.8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 120 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.02)].  
FS Date: 5/14/2014

LM Start	<b>9.00</b>	Rating **	M	Issue No.	<b>171 (cont)</b>
LM End	<b>9.00</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36525\_66207.jpg



View of flap gate visible from waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36525\_66206.jpg



View of landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	9.17	Rating **	M	Issue No.	172
LM End	9.17	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.220520 °	37.220520 °
				-120.793277 °	-120.793277 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:40443  
DS\_ID:19678  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 120 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.20)].  
FS Date: 5/14/2014

LM Start	<b>9.17</b>	Rating **	M	Issue No.	<b>172 (cont)</b>
LM End	<b>9.17</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_40443\_66211.jpg



View of landward side.

Photo 2 of 3 : UCIP\_SP\_2018\_40443\_66210.jpg



View of waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	9.17	Rating **	M	Issue No.	172 (cont)	
LM End	9.17	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.220520 °	37.220520 °	
				-120.793277 °	-120.793277 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:40443 DS_ID:19678 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 120 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.20)]. FS Date: 5/14/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_40443\_66209.jpg



Pipe visible on waterward side.

LM Start	9.42	Rating **	M	Issue No.	17
LM End	9.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.220199 °	37.220199 °
				-120.788748 °	-120.788748 °
DWR ID	DWR_NA0010_02B_f_2016_17				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim back dead tree limbs on landside toe.					

Photo 1 of 1 : SP\_2018\_NA0010\_120\_17\_20180419\_00046.jpg

Looking north at broken tree limbs and branches on landward slope.  
(Spring 2018)

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	9.43	Rating **	M	Issue No.	173
LM End	9.43	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.220227 °	37.220227 °
				-120.788634 °	-120.788634 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36527  
DS\_ID:19686  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 115 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.46)].  
FS Date: 5/14/2014

LM Start	<b>9.43</b>	Rating **	M	Issue No.	<b>173 (cont)</b>
LM End	<b>9.43</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36527\_66217.jpg



View of landward side.

Photo 2 of 3 : UCIP\_SP\_2018\_36527\_66216.jpg



View of waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	9.43	Rating **	M	Issue No.	173 (cont)	
LM End	9.43	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.220227 °		37.220227 °
				-120.788634 °		-120.788634 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36527 DS_ID:19686 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 115 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.46)]. FS Date: 5/14/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36527\_66215.jpg



Concrete headwall visible on landward side.

LM Start	9.60	Rating **	M	Issue No.	18
LM End	9.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.220794 °	37.220794 °
				-120.785721 °	-120.785721 °
DWR ID	DWR_NA0010_02B_f_2017_18				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_120\_18\_20180307\_00005.jpg



Looking southeast at waterside slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	9.75	Rating **	U	Issue No.	23
LM End	9.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.219083 °	37.219083 °
				-120.784327 °	-120.784327 °
DWR ID	DWR_NA0010_02B_s_2017_23				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 2 : SP\_2018\_NA0010\_120\_23\_20180307\_00009.jpg



Looking south at landside slope.

LM Start	<b>9.75</b>	Rating **	U	Issue No.	<b>23 (cont)</b>
LM End	<b>9.75</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2018\_NA0010\_120\_23\_20180307\_00010.jpg



Looking west at untrimmed trees at landward toe.

LM Start	9.83	Rating **	M	Issue No.	24
LM End	9.83	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.218037 °	37.218037 °
				-120.784199 °	-120.784199 °
DWR ID	DWR_NA0010_02B_s_2018_24				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove dead tree limbs and branches for landward berm.					

Photo 1 of 1 : SP\_2018\_NA0010\_120\_24\_20180419\_00047.jpg

Looking west at dead tree limbs and branches on landward slope.  
(Spring 2018)

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



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	10.09	Rating **	M	Issue No.	174	
LM End	10.09	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.214229 °	37.214229 °	
				-120.784350 °	-120.784350 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36528 DS_ID:19687 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 115 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 10.12)]. FS Date: 5/14/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36528\_66224.jpg



Overview of waterward side.

LM Start	10.09	Rating **	M	Issue No.	174 (cont)
LM End	10.09	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36528\_66226.jpg



View of waterward slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	10.09	Rating **	M	Issue No.	174 (cont)	
LM End	10.09	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.214229 °		37.214229 °
				-120.784350 °		-120.784350 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36528						
DS_ID:19687						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.7 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 115 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 10.12)].						
FS Date: 5/14/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36528\_66222.jpg



View of waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	10.78	Rating **	M	Issue No.	175 (cont)	
LM End	10.78	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.206352 °	37.206352 °	
				-120.777634 °	-120.777634 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:42504 DS_ID:19688 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible on landward side--recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Brass cap No. 115 bench mark (BM) on the headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 10.81)]. FS Date: 5/14/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_42504\_66234.jpg



View of pipe visible on waterward side.

LM Start	10.94	Rating **	M	Issue No.	14
LM End	10.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.205711 °	37.205711 °
				-120.774741 °	-120.774741 °
DWR ID	DWR_NA0010_02B_f_2015_14				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings on landside slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_120\_14\_20180307\_00003.jpg



Looking at prunings on landward slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	11.40	Rating **	M	Issue No.	177 (cont)	
LM End	11.40	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.201792 °	37.201792 °	
				-120.768462 °	-120.768462 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36531 DS_ID:19690 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8 feet below the crown. Flap gate on the waterside (WS) end. Screw gate on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.43)]. FS Date: 5/14/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36531\_66239.jpg



Flap gate visible on waterward toe.

LM Start	12.21	Rating **	M	Issue No.	1
LM End	12.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.191528 °	37.191528 °
				-120.764541 °	-120.764541 °
DWR ID	DWR_NA0010_02B_f_2014_1				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree limbs on landside slope.					

Photo 1 of 2 : SP\_2018\_NA0010\_120\_1\_20180307\_00001.jpg



Looking northwest at tree limb on waterward slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	12.21	Rating **	M	Issue No.	1 (cont)	
LM End	12.21	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			37.191528 °	37.191528 °	
				-120.764541 °	-120.764541 °	
DWR ID	DWR_NA0010_02B_f_2014_1					
Comment Code						
TR : Tree or limb						
Inspector Comment						
Fallen tree limbs on landside slope.						

Photo 2 of 2 : SP\_2018\_NA0010\_120\_1\_20180307\_00002.jpg



Looking southwest at tree limb on waterward slope.

LM Start	13.18	Rating **	M	Issue No.	178
LM End	13.18	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.179265 °	37.179265 °
				-120.764870 °	-120.764870 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39370 DS_ID:19663 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe--recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 6.5 feet below the crown. Slide gate in a pipe riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.22)]. FS Date: 5/14/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39370\_66245.jpg



View of landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	13.18	Rating **	M	Issue No.	178 (cont)	
LM End	13.18	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.179265 °	37.179265 °	
				-120.764870 °	-120.764870 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39370 DS_ID:19663 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe--recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 6.5 feet below the crown. Slide gate in a pipe riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.22)]. FS Date: 5/14/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39370\_66244.jpg



Overview of landward slope.

LM Start	<b>13.18</b>	Rating **	M	Issue No.	<b>178 (cont)</b>
LM End	<b>13.18</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39370\_66243.jpg



View of waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

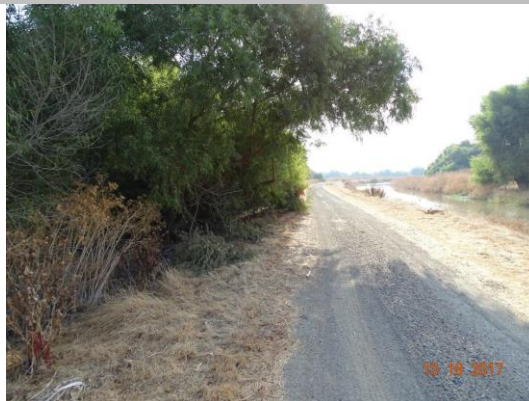
## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	13.42	Rating **	U	Issue No.	167
LM End	13.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.176379 °	37.176379 °
				-120.762255 °	-120.762255 °
DWR ID	DWR_NA0010_02B_s _ 2015_167				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Dense trees on waterside slope.					

Photo 1 of 2 : SP\_2018\_NA0010\_120\_167\_20180307\_00011.jpg



Looking southeast at waterside slope.

LM Start	<b>13.42</b>	Rating **	U	Issue No.	<b>167 (cont)</b>
LM End	<b>13.42</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2018\_NA0010\_120\_167\_20180307\_00012.jpg



Looking south at untrimmed trees on waterward slope.

LM Start	13.64	Rating **	U	Issue No.	19
LM End	13.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.173767 °	37.172157 °
				-120.761018 °	-120.761200 °
DWR ID	DWR_NA0010_02B_s _ 2017_19				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : SP\_2018\_NA0010\_120\_19\_20180307\_00006.jpg



Looking north at landside slope.

**\* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	04/16/2018 04/16/2018	Richard Willoughby

LM Start	13.64	Rating **	U	Issue No.	19 (cont)	
LM End	13.75	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.173767 °		37.172157 °
				-120.761018 °		-120.761200 °
DWR ID	DWR_NA0010_02B_s_2017_19					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						

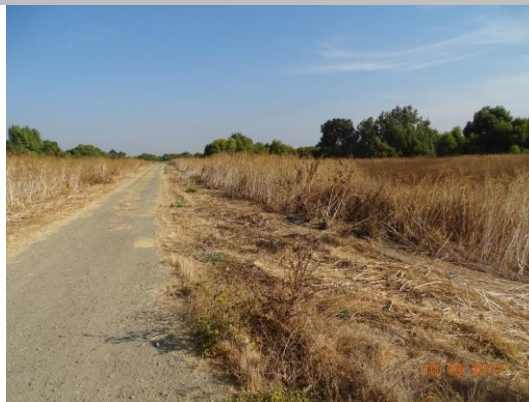
Photo 2 of 2 : SP\_2018\_NA0010\_120\_19\_20180307\_00007.jpg



Looking northwest at dense veg on landward slope.

LM Start	13.64	Rating **	U	Issue No.	20
LM End	13.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.173767 °	37.172157 °
				-120.761018 °	-120.761200 °
DWR ID	DWR_NA0010_02B_s_2017_20				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_120\_20\_20180307\_00008.jpg



Looking north at waterside slope.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	8
LM End	2.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.111779 °	37.088905 °
				-120.587508 °	-120.566860 °
DWR ID	DWR_NA0010_03_s _ 2018_8				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	9
LM End	2.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.111778 °	37.088905 °
				-120.587508 °	-120.566860 °
DWR ID	DWR_NA0010_03_s _ 2018_9				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.19	Rating **	M	Issue No.	67
LM End	0.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.109013 °	37.109013 °
				-120.587799 °	-120.587799 °
DWR ID	DWR_NA0010_03_s_2015_67				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes noted at landside slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_121\_67\_20180307\_00004.jpg



Looking southwest at the landside shoulder.

LM Start	0.42	Rating **	M	Issue No.	68	
LM End	0.42	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.106233 °	37.106233 °	
				-120.585797 °	-120.585797 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34083						
DS_ID:19691						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner. Recommend removing tall grass on landward slope and clearing sediment build up inside pipe.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.43)].						
FS Date: 4/17/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_34083\_61941.jpg



Concrete structure and flap gate visible on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.42	Rating **	M	Issue No.	68 (cont)	
LM End	0.42	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.106233 °		37.106233 °
				-120.585797 °		-120.585797 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34083						
DS_ID:19691						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner. Recommend removing tall grass on landward slope and clearing sediment build up inside pipe.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.43)].						
FS Date: 4/17/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_34083\_61940.jpg



View of waterward side.

LM Start	<b>0.42</b>	Rating **	M	Issue No.	<b>68 (cont)</b>
LM End	<b>0.42</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34083\_61944.jpg



View of landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.43	Rating **	M	Issue No.	6
LM End	0.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.106121 °	37.106121 °
				-120.585680 °	-120.585680 °
DWR ID	DWR_NA0010_03_f_2017_6				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_121\_6\_20180307\_00002.jpg



Looking east at the landside slope.

LM Start	0.76	Rating **	A/W	Issue No.	69	
LM End	0.76	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.102964 °	37.102964 °	
				-120.581421 °	-120.581421 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36534 DS_ID:19692 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.3 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.77)]. FS Date: 4/17/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36534\_66248.jpg



View of waterward slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.76	Rating **	A/W	Issue No.	69 (cont)	
LM End	0.76	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.102964 °	37.102964 °	
				-120.581421 °	-120.581421 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36534						
DS_ID:19692						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 9.3 feet below the crown. Flap gate on the waterside						
(WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE						
San Joaquin O&M Manual 601.1, 1967, (HLM 0.77)].						
FS Date: 4/17/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_36534\_66249.jpg



Concrete structure located on waterward side.

LM Start	<b>0.76</b>	Rating **	A/W	Issue No.	<b>69 (cont)</b>
LM End	<b>0.76</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_36534\_66251.jpg



View of landward slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.83	Rating **	M	Issue No.	7
LM End	0.83	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.102190 °	37.102190 °
				-120.580717 °	-120.580717 °
DWR ID	DWR_NA0010_03_f_2017_7				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_121\_7\_20180307\_00003.jpg



Looking southeast at the waterside shoulder.

LM Start	1.54	Rating **	M	Issue No.	65	
LM End	1.54	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.094270 °		37.094270 °
				-120.573112 °		-120.573112 °
DWR ID	DWR_NA0010_03_s_2015_65					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						

No Photos

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	04/17/2018 04/17/2018	Richard Willoughby

LM Start	1.71	Rating **	M	Issue No.	70
LM End	1.71	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.092079 °	37.092079 °
				-120.572316 °	-120.572316 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39371 DS_ID:19693 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 6.8 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.72)]. FS Date: 4/17/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39371\_66252.jpg



View of levee crown at crossing.

LM Start	1.71	Rating **	M	Issue No.	70 (cont)
LM End	1.71	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39371\_66254.jpg



Concrete structure located on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	04/17/2018 04/17/2018	Richard Willoughby

LM Start	1.71	Rating **	M	Issue No.	70 (cont)	
LM End	1.71	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.092079 °		37.092079 °
				-120.572316 °		-120.572316 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39371						
DS_ID:19693						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Sediment buildup in pipe visible from landward side--recommend clearing.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 6.8 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.72)].						
FS Date: 4/17/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39371\_66253.jpg



View of waterward side--channel.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	9
LM End	1.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.112601 °	°
				-120.589042 °	°
DWR ID	DWR_NA0010_04_s_2018_9				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_122\_9\_20180420\_00023.jpg



Looking north at typical view of landward slope. (Spring 2018)

LM Start	0.00	Rating **	M	Issue No.	10	
LM End	1.41	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.112601 °		°
				-120.589042 °		°
DWR ID	DWR_NA0010_04_s_2018_10					
Comment Code						
V1 : Control annual grass and weeds on the levee slopes and easements.						
Inspector Comment						

Photo 1 of 1 : SP\_2018\_NA0010\_122\_10\_20180420\_00024.jpg



Looking north at typical view of waterward slope. (Spring 2018)

\* 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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.24	Rating **	M	Issue No.	15
LM End	0.24	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.109933 °	37.109933 °
				-120.590689 °	-120.590689 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:34093  
DS\_ID:19695  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Sediment and debris blocking concrete headwall located on waterward side. During inspection water was flowing from landward side to waterward side. Recommend removing sediment to confirm condition of flap gate and pipe.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 18 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.27)].  
FS Date: 4/17/2014

LM Start	<b>0.24</b>	Rating **	M	Issue No.	<b>15 (cont)</b>
LM End	<b>0.24</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_34093\_61982.jpg



View of dense vegetation near concrete headwall located on waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_34093\_61981.jpg



Sediment blocking flap gate located on waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.41	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.24	Rating **	M	Issue No.	15 (cont)	
LM End	0.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.109933 °		37.109933 °
				-120.590689 °		-120.590689 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34093 DS_ID:19695 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment and debris blocking concrete headwall located on waterward side. During inspection water was flowing from landward side to waterward side. Recommend removing sediment to confirm condition of flap gate and pipe. FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 18 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.27)]. FS Date: 4/17/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34093\_61980.jpg



View of waterward side.

LM Start	0.55	Rating **	M	Issue No.	8
LM End	0.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.105957 °	37.105957 °
				-120.588684 °	-120.588684 °
DWR ID	DWR_NA0010_04_f_2017_8				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_122\_8\_20180307\_00004.jpg



Looking south at landside slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	0.00	Rating **	A/W	Issue No.	1310
LM End	0.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.217839 °	37.217839 °
				-120.711462 °	-120.711462 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34254 DS_ID:19844 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.02)]. FS Date: 4/22/2014					

No Photos

LM Start	0.00	Rating **	M	Issue No.	131
LM End	33.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.279065 °	36.976694 °
				-120.824258 °	-120.383653 °
DWR ID	DWR_NA0010_05_s_2018_131				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	132
LM End	33.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.279065 °	36.976694 °
				-120.824258 °	-120.383653 °
DWR ID	DWR_NA0010_05_s_2018_132				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.08	Rating **	M	Issue No.	1311
LM End	0.08	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.278174 °	37.278174 °
				-120.823465 °	-120.823465 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39563 DS_ID:19756 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Debris blocking landward headwall--recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8.6 feet below the crown. Concrete U-shaped headwall and flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.07)]. FS Date: 4/9/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39563\_60921.jpg



Pipe, flapgate, and concrete headwall on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	0.08	Rating **	M	Issue No.	1311 (cont)	
LM End	0.08	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.278174 °	37.278174 °	
				-120.823465 °	-120.823465 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39563 DS_ID:19756 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Debris blocking landward headwall--recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8.6 feet below the crown. Concrete U-shaped headwall and flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.07)]. FS Date: 4/9/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39563\_60920.jpg



Pipe, flapgate, and concrete headwall on WS toe.

LM Start	<b>0.08</b>	Rating **	M	Issue No.	<b>1311 (cont)</b>
LM End	<b>0.08</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39563\_60922.jpg



Pipe and concrete headwall on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	0.60	Rating **	M	Issue No.	1313	
LM End	0.60	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.273945 °		37.273945 °
				-120.815835 °		-120.815835 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39584						
DS_ID:19757						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Excess debris on landward headwall--recommend clearing.						
FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 7.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.59)].						
FS Date: 4/9/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39584\_60926.jpg



Concrete headwall, pipe, and flapgate on WS toe.

LM Start	<b>0.60</b>	Rating **	M	Issue No.	<b>1313 (cont)</b>
LM End	<b>0.60</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39584\_60925.jpg



Concrete headwall, pipe, and flapgate on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	0.60	Rating **	M	Issue No.	1313 (cont)	
LM End	0.60	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.273945 °	37.273945 °	
				-120.815835 °	-120.815835 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39584 DS_ID:19757 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Excess debris on landward headwall--recommend clearing. FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 7.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.59)]. FS Date: 4/9/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39584\_60927.jpg



Pipe and concrete headwall on LS toe. Note vegetation buildup.

LM Start	0.65	Rating **	M	Issue No.	1314
LM End	0.65	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.273398 °	37.273398 °
				-120.815082 °	-120.815082 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39585 DS_ID:19758 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 13.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. Cobble revetment around both ends. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.65)]. FS Date: 4/9/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39585\_60931.jpg



Concrete headwall visible off WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	0.65	Rating **	M	Issue No.	1314 (cont)
LM End	0.65	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.273398 °	37.273398 °
				-120.815082 °	-120.815082 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:39585  
DS\_ID:19758  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 13.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. Cobble revetment around both ends. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.65)].  
FS Date: 4/9/2014

LM Start	<b>0.65</b>	Rating **	M	Issue No.	<b>1314 (cont)</b>
LM End	<b>0.65</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39585\_60929.jpg



Pipe, flapgate, and headwall at WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39585\_60930.jpg



Concrete headwall at LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	0.85	Rating **	A/W	Issue No.	1315
LM End	0.85	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.271894 °	37.271894 °
				-120.812224 °	-120.812224 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33707 DS_ID:19759 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 14.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.84)]. FS Date: 4/9/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33707\_60934.jpg



Concrete headwall visible at LS toe.

LM Start	<b>0.85</b>	Rating **	A/W	Issue No.	<b>1315 (cont)</b>
LM End	<b>0.85</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33707\_60933.jpg



Pipe, flapgate, and headwall at WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	0.85	Rating **	A/W	Issue No.	1315 (cont)
LM End	0.85	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.271894 °	37.271894 °
				-120.812224 °	-120.812224 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33707 DS_ID:19759 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 14.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.84)]. FS Date: 4/9/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_33707\_60936.jpg



Pipe and concrete headwall at LS toe.

LM Start	1.45	Rating **	A/W	Issue No.	1316
LM End	1.45	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.265804 °	37.265804 °
				-120.804955 °	-120.804955 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33708					
DS_ID:19760					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 21 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.44)].					
FS Date: 4/9/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33708\_60939.jpg



Flapgate on concrete headwall at WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	1.45	Rating **	A/W	Issue No.	1316 (cont)
LM End	1.45	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.265804 °	37.265804 °
				-120.804955 °	-120.804955 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33708					
DS_ID:19760					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 21 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.44)].					
FS Date: 4/9/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_33708\_60938.jpg



Flapgate on concrete headwall at WS toe.

LM Start	<b>1.45</b>	Rating **	A/W	Issue No.	<b>1316 (cont)</b>
LM End	<b>1.45</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_33708\_60937.jpg



Pipe and concrete headwall on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	1.48	Rating **	M	Issue No.	103
LM End	1.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.265507 °	37.265507 °
				-120.804688 °	-120.804688 °
DWR ID	DWR_NA0010_05_s_2017_103				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree on landside toe.					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_103\_20180307\_00015.jpg



Looking east at fallen tree at landward toe.

LM Start	1.66	Rating **	M	Issue No.	80
LM End	1.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.263448 °	37.262225 °
				-120.802715 °	-120.802296 °
DWR ID	DWR_NA0010_05_f_2015_80				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes on levee crown within this section.					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_80\_20180307\_00014.jpg



Looking at typical view of rodent holes within this section on landward slope.

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

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

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	2.39	Rating **	A/W	Issue No.	113
LM End	2.40	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.257060 °	37.256981 °
				-120.792823 °	-120.792707 °
DWR ID	DWR_NA0010_05_f_2017_113				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA graded levee crown and backfilled rodent holes. Need to monitor site.					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_113\_20180307\_00022.jpg



Looking at rodent holes on the levee crown.

LM Start	2.84	Rating **	M	Issue No.	1317
LM End	2.84	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.256810 °	37.256810 °
				-120.785113 °	-120.785113 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33709					
DS_ID:19809					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Log partially blocking inlet at LS toe.					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through the levee, 15 feet below the crown. Flap gate on the waterside					
(WS) end. Concrete U-shaped headwall on each end. [Additional					
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M					
Manual 601.1, 1967, (HLM 2.85)].					
FS Date: 4/9/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33709\_60943.jpg



Concrete headwall at outlet on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	2.84	Rating **	M	Issue No.	1317 (cont)	
LM End	2.84	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.256810 °	37.256810 °	
				-120.785113 °	-120.785113 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33709						
DS_ID:19809						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Log partially blocking inlet at LS toe.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 15 feet below the crown. Flap gate on the waterside						
(WS) end. Concrete U-shaped headwall on each end. [Additional						
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M						
Manual 601.1, 1967, (HLM 2.85)].						
FS Date: 4/9/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_33709\_60941.jpg



Headwall, pipe, and flapgate on WS toe.

LM Start	<b>2.84</b>	Rating **	M	Issue No.	<b>1317 (cont)</b>
LM End	<b>2.84</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_33709\_60942.jpg



Concrete headwall and metal gate hoist on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	3.20	Rating **	A/W	Issue No.	6
LM End	3.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.256635 °	37.255170 °
				-120.778935 °	-120.776882 °
DWR ID	DWR_NA0010_05_s_2014_6				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
No rodent visible but several rodent holes visible on levee crown. LMA graded levee crown and backfilled rodent holes.					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_6\_20180307\_00006.jpg



Looking at typical view of rodent holes on waterward slope.

LM Start	3.34	Rating **	M	Issue No.	1318
LM End	3.34	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.255258 °	37.255258 °
				-120.776996 °	-120.776996 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43055					
DS_ID:19810					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe corroded through at flapgate on WS toe.					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 14.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on each end.					
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.33)].					
FS Date: 4/15/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_43055\_60948.jpg



Concrete headwall at WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	3.34	Rating **	M	Issue No.	1318 (cont)	
LM End	3.34	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.255258 °	37.255258 °	
				-120.776996 °	-120.776996 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:43055						
DS_ID:19810						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe corroded through at flapgate on WS toe.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 14.7 feet below the crown. Flap gate on the						
waterside (WS) end. Concrete U-shaped headwall on each end.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin						
O&M Manual 601.1, 1967, (HLM 3.33)].						
FS Date: 4/15/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_43055\_60946.jpg



Flapgate and Concrete headwall at WS toe.

LM Start	<b>3.34</b>	Rating **	M	Issue No.	<b>1318 (cont)</b>
LM End	<b>3.34</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_43055\_60951.jpg



Pipe corroded through just behind flapgate at WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	3.68	Rating **	M	Issue No.	1319 (cont)
LM End	3.68	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.252308 °	37.252308 °
				-120.768038 °	-120.768038 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39586 DS_ID:19811 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.67)]. FS Date: 4/16/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39586\_61136.jpg



Pipe and headwall on LS toe.

LM Start	4.02	Rating **	M	Issue No.	1320
LM End	4.02	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.248432 °	37.248432 °
				-120.764066 °	-120.764066 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39880 DS_ID:19769 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.02)]. FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39880\_61142.jpg



Pipe, headwall, and flapgate on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	4.02	Rating **	M	Issue No.	1320 (cont)	
LM End	4.02	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.248432 °	37.248432 °	
				-120.764066 °	-120.764066 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39880 DS_ID:19769 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.02)]. FS Date: 4/16/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39880\_61143.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	<b>4.02</b>	Rating **	M	Issue No.	<b>1320 (cont)</b>
LM End	<b>4.02</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39880\_61141.jpg



Pipe and headwall on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	4.25	Rating **	M	Issue No.	117
LM End	4.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.246217 °	37.245406 °
				-120.760963 °	-120.759946 °
DWR ID	DWR_NA0010_05_f_2017_117				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	4.27	Rating **	M	Issue No.	1321
LM End	4.27	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.246008 °	37.246008 °
				-120.760706 °	-120.760706 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39588 DS_ID:19770 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side-- recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.27)]. FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39588\_61146.jpg



Pipe, headwall, and flapgate on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	4.27	Rating **	M	Issue No.	1321 (cont)	
LM End	4.27	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.246008 °	37.246008 °	
				-120.760706 °	-120.760706 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39588 DS_ID:19770 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.27)]. FS Date: 4/16/2014						

LM Start	<b>4.27</b>	Rating **	M	Issue No.	<b>1321 (cont)</b>
LM End	<b>4.27</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39588\_61145.jpg



Pipe, headwall, and flapgate on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39588\_61147.jpg



Concrete headwall and pipe on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	4.55	Rating **	M	Issue No.	1322
LM End	4.55	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.243668 °	37.243668 °
				-120.756812 °	-120.756812 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39589 DS_ID:19771 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.54)]. FS Date: 4/16/2014 8:16:00 AM					

Photo 1 of 3 : UCIP\_SP\_2018\_39589\_62081.jpg



Pipe, flapgate, and headwall on WS toe.

LM Start	<b>4.55</b>	Rating **	M	Issue No.	<b>1322 (cont)</b>
LM End	<b>4.55</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39589\_62083.jpg



Pipe, flapgate, and headwall on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	4.55	Rating **	M	Issue No.	1322 (cont)	
LM End	4.55	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.243668 °	37.243668 °	
				-120.756812 °	-120.756812 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39589 DS_ID:19771 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.54)]. FS Date: 4/16/2014 8:16:00 AM						

Photo 3 of 3 : UCIP\_SP\_2018\_39589\_62082.jpg



Pipe and headwall on LS toe.

LM Start	4.89	Rating **	M	Issue No.	1323
LM End	4.89	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.240978 °	37.240978 °
				-120.751613 °	-120.751613 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39590 DS_ID:19772 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.89)]. FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39590\_62087.jpg



Headwall, flapgate, and pipe on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	4.89	Rating **	M	Issue No.	1323 (cont)	
LM End	4.89	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.240978 °	37.240978 °	
				-120.751613 °	-120.751613 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39590 DS_ID:19772 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.89)]. FS Date: 4/16/2014						

LM Start	<b>4.89</b>	Rating **	M	Issue No.	<b>1323 (cont)</b>
LM End	<b>4.89</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39590\_62088.jpg



Headwall, flapgate, and pipe on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39590\_62086.jpg



Headwall and pipe on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	5.15	Rating **	M	Issue No.	1324
LM End	5.15	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.240607 °	37.240607 °
				-120.746916 °	-120.746916 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39591 DS_ID:19773 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.15)]. FS Date: 4/16/2014					

LM Start	<b>5.15</b>	Rating **	M	Issue No.	<b>1324 (cont)</b>
LM End	<b>5.15</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39591\_62091.jpg



Headwall, flapgate, and pipe on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39591\_62093.jpg



Headwall, flapgate, and pipe on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	5.15	Rating **	M	Issue No.	1324 (cont)
LM End	5.15	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.240607 °	37.240607 °
				-120.746916 °	-120.746916 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39591 DS_ID:19773 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.15)]. FS Date: 4/16/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39591\_62092.jpg



Headwall and pipe on LS toe.

LM Start	5.58	Rating **	A/W	Issue No.	1325	
LM End	5.58	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.238879 °	37.238879 °	
				-120.739719 °	-120.739719 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34151						
DS_ID:19774						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 9.5 feet below the crown. Flap gate on the waterside						
(WS) end. Concrete headwall on the landside (LS) end. Concrete U-						
shaped headwall on the WS end. [Additional Reference(s): DWR Levee						
Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.58)].						
FS Date: 4/16/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_34151\_62096.jpg



Headwall, flapgate, and pipe on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	5.58	Rating **	A/W	Issue No.	1325 (cont)
LM End	5.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.238879 °	37.238879 °
				-120.739719 °	-120.739719 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34151 DS_ID:19774 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.58)]. FS Date: 4/16/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_34151\_62095.jpg



Headwall, flapgate, and pipe on WS toe.

LM Start	<b>5.58</b>	Rating **	A/W	Issue No.	<b>1325 (cont)</b>
LM End	<b>5.58</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34151\_62097.jpg



Headwall and pipe on LS toe with HDPE drain pipe being installed off LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	5.99	Rating **	M	Issue No.	116
LM End	6.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.236236 °	37.231945 °
				-120.733344 °	-120.728323 °
DWR ID	DWR_NA0010_05_f_2017_116				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	6.35	Rating **	A/W	Issue No.	1326
LM End	6.35	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.232589 °	37.232589 °
				-120.728822 °	-120.728822 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34163 DS_ID:19775 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.35)]. FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34163\_62102.jpg



Headwall, flapgate, and pipe on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	6.35	Rating **	A/W	Issue No.	1326 (cont)
LM End	6.35	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.232589 °	37.232589 °
				-120.728822 °	-120.728822 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34163 DS_ID:19775 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.35)]. FS Date: 4/16/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_34163\_62101.jpg



Headwall, flapgate, and pipe on WS toe.

LM Start	<b>6.35</b>	Rating **	A/W	Issue No.	<b>1326 (cont)</b>
LM End	<b>6.35</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34163\_62100.jpg



Headwall and pipe on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	6.52	Rating **	M	Issue No.	15
LM End	6.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.230497 °	37.230497 °
				-120.727263 °	-120.727263 °
DWR ID	DWR_NA0010_05_s_2012_15				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	6.59	Rating **	M	Issue No.	1309
LM End	6.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.229682 °	37.229682 °
				-120.726305 °	-120.726305 °
DWR ID	DWR_NA0010_05_s_2015_1309				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Landside slope damage caused by animal foot traffic.					

LM Start	<b>6.59</b>	Rating **	M	Issue No.	<b>1309 (cont)</b>
LM End	<b>6.59</b>	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP\_2018\_NA0010\_123\_1309\_20180307\_00037.jpg



Looking north at damaged landward slope.

Photo 2 of 2 : SP\_2018\_NA0010\_123\_1309\_20180307\_00038.jpg



Looking east at damaged landward slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	6.70	Rating **	M	Issue No.	115
LM End	6.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.228861 °	37.228861 °
				-120.724579 °	-120.724579 °
DWR ID	DWR_NA0010_05_f_2017_115				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	7.36	Rating **	M	Issue No.	1327	
LM End	7.36	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.224560 °		37.224560 °
				-120.714057 °		-120.714057 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39592						
DS_ID:19761						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Sediment buildup in pipe visible from landward side-- recommend contacting owner to clear pipe.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.36)].						
FS Date: 4/22/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39592\_62111.jpg



Headwall, flapgate, and pipe on WS toe.

* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	7.36	Rating **	M	Issue No.	1327 (cont)
LM End	7.36	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.224560 °	37.224560 °
				-120.714057 °	-120.714057 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39592 DS_ID:19761 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.36)]. FS Date: 4/22/2014					

LM Start	<b>7.36</b>	Rating **	M	Issue No.	<b>1327 (cont)</b>
LM End	<b>7.36</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39592\_62113.jpg



Headwall, flapgate, and pipe on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39592\_62112.jpg



Headwall and pipe on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	8.46	Rating **	M	Issue No.	1329
LM End	8.46	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.209606 °	37.209606 °
				-120.702069 °	-120.702069 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34265					
DS_ID:19763					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe filled with silt on LS toe and should be cleared.					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through the levee, 16 feet below the crown. Flap gate on the waterside					
(WS) end. Concrete headwall on the landside (LS) end. Concrete U-					
shaped headwall on the WS end. [Additional Reference(s): DWR Levee					
Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.44)].					
FS Date: 4/22/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34265\_62182.jpg



Headwall, flapgate, and pipe on WS toe

LM Start	<b>8.46</b>	Rating **	M	Issue No.	<b>1329 (cont)</b>
LM End	<b>8.46</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_34265\_62183.jpg



Headwall, flapgate, and pipe on WS toe

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	8.46	Rating **	M	Issue No.	1329 (cont)	
LM End	8.46	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.209606 °	37.209606 °	
				-120.702069 °	-120.702069 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34265						
DS_ID:19763						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe filled with silt on LS toe and should be cleared.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 16 feet below the crown. Flap gate on the waterside						
(WS) end. Concrete headwall on the landside (LS) end. Concrete U-						
shaped headwall on the WS end. [Additional Reference(s): DWR Levee						
Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.44)].						
FS Date: 4/22/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34265\_62181.jpg



Headwall, slidegate, and pipe on LS toe.

LM Start	8.85	Rating **	A/W	Issue No.	1330	
LM End	8.85	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.205800 °		37.205800 °
				-120.696867 °		-120.696867 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34267 DS_ID:19764 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: [Deadman Creek Drainage Ditch Structure] 1 of 2: 48-inch by 102-inch reinforced concrete box gravity drainage culvert through the levee, 13.8 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Concrete headwall on the landside (LS) end with a slide gate mounted on the headwall. WS slope and outlet drain cobble revetted. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.83)]. FS Date: 4/22/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_34267\_62186.jpg



Concrete headwall at outlet on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	8.85	Rating **	A/W	Issue No.	1330 (cont)
LM End	8.85	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.205800 °	37.205800 °
				-120.696867 °	-120.696867 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:34267  
DS\_ID:19764  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: [Deadman Creek Drainage Ditch Structure] 1 of 2: 48-inch by 102-inch reinforced concrete box gravity drainage culvert through the levee, 13.8 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Concrete headwall on the landside (LS) end with a slide gate mounted on the headwall. WS slope and outlet drain cobble revetted. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.83)].  
FS Date: 4/22/2014

LM Start	<b>8.85</b>	Rating **	A/W	Issue No.	<b>1330 (cont)</b>
LM End	<b>8.85</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_34267\_62187.jpg



Concrete headwall at outlet on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_34267\_62185.jpg



Slide gate mounted on concrete headwall at LS toe.

* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	8.85	Rating **	A/W	Issue No.	1331
LM End	8.85	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.205784 °	37.205784 °
				-120.696843 °	-120.696843 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:34268  
DS\_ID:19735  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)  
FIELD\_STRUCT\_DESC: [Deadman Creek Drainage Ditch Structure] 2 of 2: 48-inch by 102-inch reinforced concrete box gravity drainage culvert through the levee, 13.8 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Concrete headwall on the landside (LS) end with a slide gate mounted on the headwall. WS slope and outlet drain cobble revetted. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.83)].  
FS Date: 4/22/2014

LM Start	<b>8.85</b>	Rating **	A/W	Issue No.	<b>1331 (cont)</b>
LM End	<b>8.85</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_34268\_62190.jpg



Concrete headwall on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_34268\_62191.jpg



Concrete headwall on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	8.85	Rating **	A/W	Issue No.	1331 (cont)	
LM End	8.85	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.205784 °	37.205784 °	
				-120.696843 °	-120.696843 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34268 DS_ID:19735 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: [Deadman Creek Drainage Ditch Structure] 2 of 2: 48-inch by 102-inch reinforced concrete box gravity drainage culvert through the levee, 13.8 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Concrete headwall on the landside (LS) end with a slide gate mounted on the headwall. WS slope and outlet drain cobble revetted. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.83)]. FS Date: 4/22/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34268\_62189.jpg



Slide gate mounted on concrete headwall at LS toe.

LM Start	8.85	Rating **	M	Issue No.	5
LM End	8.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.205778 °	37.205778 °
				-120.696843 °	-120.696843 °
DWR ID	DWR_NA0010_05_s_2012_5				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	9.28	Rating **	A/W	Issue No.	1332
LM End	9.28	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.202742 °	37.202742 °
				-120.690064 °	-120.690064 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34272					
DS_ID:19766					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe					
through the levee, 14.8 feet below the crown. Slide gate in a 48-inch					
corrugated metal pipe (CMP) riser on the waterside (WS) slope.					
Concrete headwall on each end. [Additional Reference(s): DWR Levee					
Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.26)].					
FS Date: 4/22/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34272\_62196.jpg



Slide gate in 48-inch CMP riser on WS slope.

LM Start	<b>9.28</b>	Rating **	A/W	Issue No.	<b>1332 (cont)</b>
LM End	<b>9.28</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_34272\_62198.jpg



Headwall and pipe at WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	9.28	Rating **	A/W	Issue No.	1332 (cont)	
LM End	9.28	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.202742 °	37.202742 °	
				-120.690064 °	-120.690064 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34272						
DS_ID:19766						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe						
through the levee, 14.8 feet below the crown. Slide gate in a 48-inch						
corrugated metal pipe (CMP) riser on the waterside (WS) slope.						
Concrete headwall on each end. [Additional Reference(s): DWR Levee						
Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.26)].						
FS Date: 4/22/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34272\_62197.jpg



Headwall and pipe at LS toe.

LM Start	10.06	Rating **	M	Issue No.	1333	
LM End	10.06	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.194736 °		37.194736 °
				-120.680116 °		-120.680116 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34273						
DS_ID:19767						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Slidegate actuator appears bent and may not work properly (WS slope).						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 10.05)].						
FS Date: 4/22/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_34273\_62201.jpg



Slidegate in CMP riser on WS slope.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	10.06	Rating **	M	Issue No.	1333 (cont)
LM End	10.06	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.194736 °	37.194736 °
				-120.680116 °	-120.680116 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34273 DS_ID:19767 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slidegate actuator appears bent and may not work properly (WS slope). FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 10.05)]. FS Date: 4/22/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_34273\_62202.jpg



Concrete headwall and pipe on WS toe.

LM Start	<b>10.06</b>	Rating **	M	Issue No.	<b>1333 (cont)</b>
LM End	<b>10.06</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34273\_62200.jpg



Concrete headwall and pipe on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	11.03	Rating **	M	Issue No.	118
LM End	11.45	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.190295 °	37.186938 °
				-120.664607 °	-120.658451 °
DWR ID	DWR_NA0010_05_f_2017_118				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

No Photos

LM Start	11.49	Rating **	A/W	Issue No.	1334
LM End	11.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.186471 °	37.186471 °
				-120.657915 °	-120.657915 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34281 DS_ID:19768 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: [Deadman Drainage Structure] 1 of 2: 48-inch corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on each end. Stairs on the landside (LS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.48)]. FS Date: 4/22/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34281\_62219.jpg



Slidegate in CMP riser, concrete headwall and pipe visible on WS slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	11.49	Rating **	A/W	Issue No.	1334 (cont)	
LM End	11.49	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.186471 °	37.186471 °	
				-120.657915 °	-120.657915 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34281 DS_ID:19768 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: [Deadman Drainage Structure] 1 of 2: 48-inch corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on each end. Stairs on the landside (LS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.48)]. FS Date: 4/22/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_34281\_62217.jpg



Stairs, concrete headwall, and pipe visible on LS slope.

LM Start	<b>11.49</b>	Rating **	A/W	Issue No.	<b>1334 (cont)</b>
LM End	<b>11.49</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34281\_62218.jpg



Inside pipe at LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	11.50	Rating **	A/W	Issue No.	1335
LM End	11.50	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.186458 °	37.186458 °
				-120.657903 °	-120.657903 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34280 DS_ID:19734 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: [Deadman Drainage Structure] 2 of 2: 48-inch corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on each end. Stairs on the landside (LS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.48)]. FS Date: 4/22/2014					

LM Start	<b>11.50</b>	Rating **	A/W	Issue No.	<b>1335 (cont)</b>
LM End	<b>11.50</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_34280\_62216.jpg



Concrete headwall, pipe, and slidegate in CMP riser on WS of levee.

Photo 2 of 3 : UCIP\_SP\_2018\_34280\_62214.jpg



Stairs, concrete headwall and pipe on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	11.50	Rating **	A/W	Issue No.	1335 (cont)
LM End	11.50	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.186458 °	37.186458 °
				-120.657903 °	-120.657903 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34280 DS_ID:19734 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: [Deadman Drainage Structure] 2 of 2: 48-inch corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on each end. Stairs on the landside (LS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.48)]. FS Date: 4/22/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_34280\_62215.jpg



Inside pipe on WS toe.

LM Start	11.65	Rating **	A/W	Issue No.	1336
LM End	11.65	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.184830 °	37.184830 °
				-120.656016 °	-120.656016 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34283 DS_ID:19704 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete saddle and apron on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.63)]. FS Date: 4/22/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34283\_62221.jpg



Headwall, flapgate, and pipe at WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	11.65	Rating **	A/W	Issue No.	1336 (cont)	
LM End	11.65	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.184830 °		37.184830 °
				-120.656016 °		-120.656016 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34283 DS_ID:19704 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete saddle and apron on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.63)]. FS Date: 4/22/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_34283\_62223.jpg



Headwall, flapgate, and pipe at WS toe.

LM Start	<b>11.65</b>	Rating **	A/W	Issue No.	<b>1336 (cont)</b>
LM End	<b>11.65</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34283\_62222.jpg



Concrete headwall and pipe at LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	11.72	Rating **	M	Issue No.	105
LM End	19.52	Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.184120 °	37.113027 °
				-120.655170 °	-120.559882 °
DWR ID	DWR_NA0010_05_s_2017_105				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	12.01	Rating **	A/W	Issue No.	1337	
LM End	12.01	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.180291 °		37.180291 °
				-120.653931 °		-120.653931 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34284 DS_ID:19705 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete saddle and apron on the waterside (WS) end. Flashboard attachment on the LS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.99)]. FS Date: 4/22/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_34284\_62225.jpg



Headwall, flapgate, and pipe on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	12.01	Rating **	A/W	Issue No.	1337 (cont)
LM End	12.01	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.180291 °	37.180291 °
				-120.653931 °	-120.653931 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:34284  
DS\_ID:19705  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments:  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete saddle and apron on the waterside (WS) end. Flashboard attachment on the LS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.99)].  
FS Date: 4/22/2014

LM Start	<b>12.01</b>	Rating **	A/W	Issue No.	<b>1337 (cont)</b>
LM End	<b>12.01</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_34284\_62227.jpg



Headwall, flapgate, and pipe on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_34284\_62226.jpg



Headwall and pipe on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	12.40	Rating **	A/W	Issue No.	1338 (cont)	
LM End	12.40	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.175958 °	37.175958 °	
				-120.649798 °	-120.649798 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34285						
DS_ID:19706						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete saddle and apron on the WS end. Flashboard attachment on the LS end. Pipe crosses levee at 45 degrees to crown alignment. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 12.38)].						
FS Date: 4/22/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34285\_62231.jpg



Headwall and pipe on LS toe.

LM Start	12.63	Rating **	M	Issue No.	136
LM End	12.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.175832 °	37.175832 °
				-120.645548 °	-120.645548 °
DWR ID	DWR_NA0010_05_s_2018_136				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	12.81	Rating **	M	Issue No.	108
LM End	12.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.175793 °	37.175793 °
				-120.642227 °	-120.642227 °
DWR ID	DWR_NA0010_05_s_2017_108				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_108\_20180307\_00017.jpg



Looking east at the landside slope.

LM Start	12.89	Rating **	M	Issue No.	1339	
LM End	12.89	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.175816 °	37.175816 °	
				-120.640865 °	-120.640865 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39593 DS_ID:19707 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side-- recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Concrete headwall on the landside (LS) end with flashboards. Concrete saddle and apron on the waterside (WS) end with a flap gate. Metal screen at LS toe inlet. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 12.87)]. FS Date: 4/22/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39593\_62240.jpg



Headwall, flapgate, and pipe on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	12.89	Rating **	M	Issue No.	1339 (cont)
LM End	12.89	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.175816 °	37.175816 °
				-120.640865 °	-120.640865 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39593 DS_ID:19707 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Concrete headwall on the landside (LS) end with flashboards. Concrete saddle and apron on the waterside (WS) end with a flap gate. Metal screen at LS toe inlet. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 12.87)]. FS Date: 4/22/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_39593\_62241.jpg



Headwall, flapgate, and pipe on WS toe.

LM Start	<b>12.89</b>	Rating **	M	Issue No.	<b>1339 (cont)</b>
LM End	<b>12.89</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39593\_62239.jpg



Headwall and pipe on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	12.93	Rating **	M	Issue No.	109
LM End	12.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.175780 °	37.175780 °
				-120.640195 °	-120.640195 °
DWR ID	DWR_NA0010_05_s_2017_109				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree on landside toe.					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_109\_20180411\_00310.jpg



Looking at broken tree on landward toe. (Spring 2018)

LM Start	13.01	Rating **	M	Issue No.	2
LM End	13.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.175576 °	37.175576 °
				-120.638755 °	-120.638755 °
DWR ID	DWR_NA0010_05_s_2016_2				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree on landside toe.					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_2\_20180307\_00005.jpg



Looking west at down tree at landward toe.

LM Start	13.31	Rating **	M	Issue No.	137
LM End	13.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.172667 °	37.169577 °
				-120.634682 °	-120.631392 °
DWR ID	DWR_NA0010_05_s_2018_137				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	13.42	Rating **	M	Issue No.	1340
LM End	13.42	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.171523 °	37.171523 °
				-120.633442 °	-120.633442 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34288 DS_ID:19708 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some erosion around headwall on the WS toe and there are animal burrows on both slopes. FIELD_STRUCT_DESC: 48-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Flashboard attachment in concrete U-shaped headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.40)]. FS Date: 4/22/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34288\_62244.jpg



Headwall and pipe on LS toe.

LM Start	<b>13.42</b>	Rating **	M	Issue No.	<b>1340 (cont)</b>
LM End	<b>13.42</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_34288\_62243.jpg



Headwall, flapgate, and pipe on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

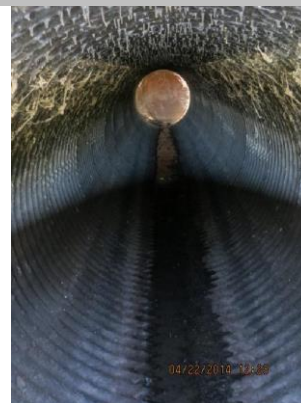
## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	13.42	Rating **	M	Issue No.	1340 (cont)	
LM End	13.42	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.171523 °	37.171523 °	
				-120.633442 °	-120.633442 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34288 DS_ID:19708 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some erosion around headwall on the WS toe and there are animal burrows on both slopes. FIELD_STRUCT_DESC: 48-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Flashboard attachment in concrete U-shaped headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.40)]. FS Date: 4/22/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34288\_62242.jpg



Headwall, flapgate, and pipe on WS toe.

LM Start	13.72	Rating **	M	Issue No.	1341
LM End	13.72	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.168202 °	37.168202 °
				-120.629886 °	-120.629886 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34824 DS_ID:19709 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe not visible and may need to have silt removed from outlet on WS toe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on concrete headwall at the landside (LS) toe. Concrete saddle and apron on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.72)]. FS Date: 4/22/2014					

Photo 1 of 2 : UCIP\_SP\_2018\_34824\_62624.jpg



Slide gate at concrete headwall on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	13.72	Rating **	M	Issue No.	1341 (cont)
LM End	13.72	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.168202 °	37.168202 °
				-120.629886 °	-120.629886 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34824 DS_ID:19709 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe not visible and may need to have silt removed from outlet on WS toe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on concrete headwall at the landside (LS) toe. Concrete saddle and apron on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.72)]. FS Date: 4/22/2014					

Photo 2 of 2 : UCIP\_SP\_2018\_34824\_62623.jpg



Walkway to gatevalve on LS shoulder.

LM Start	13.85	Rating **	A/W	Issue No.	1342
LM End	13.85	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.166760 °	37.166760 °
				-120.628304 °	-120.628304 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34657 DS_ID:19710 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.83)]. FS Date: 4/23/2014 4:17:00 PM					

Photo 1 of 3 : UCIP\_SP\_2018\_34657\_62450.jpg



Headwall, flapgate, and pipe on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	13.85	Rating **	A/W	Issue No.	1342 (cont)
LM End	13.85	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.166760 °	37.166760 °
				-120.628304 °	-120.628304 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34657 DS_ID:19710 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.83)]. FS Date: 4/23/2014 4:17:00 PM					

Photo 2 of 3 : UCIP\_SP\_2018\_34657\_62448.jpg



Headwall, flapgate, and pipe on WS toe.

LM Start	<b>13.85</b>	Rating **	A/W	Issue No.	<b>1342 (cont)</b>
LM End	<b>13.85</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34657\_62449.jpg



Concrete wier intake structure and pipe at LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	14.46	Rating **	A/W	Issue No.	1343
LM End	14.46	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.162722 °	37.162722 °
				-120.618571 °	-120.618571 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34656 DS_ID:19711 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. Concrete weir inlet structure on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 14.44)]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34656\_62446.jpg



Headwall, pipe, and flapgate on WS toe.

LM Start	<b>14.46</b>	Rating **	A/W	Issue No.	<b>1343 (cont)</b>
LM End	<b>14.46</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_34656\_62447.jpg



Headwall, pipe, and flapgate on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	14.46	Rating **	A/W	Issue No.	1343 (cont)	
LM End	14.46	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.162722 °	37.162722 °	
				-120.618571 °	-120.618571 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34656 DS_ID:19711 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. Concrete weir inlet structure on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 14.44)]. FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34656\_62445.jpg



Concrete weir inlet at LS toe.

LM Start	15.11	Rating **	M	Issue No.	1344
LM End	15.11	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.156805 °	37.156805 °
				-120.609513 °	-120.609513 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34664					
DS_ID:19712					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Minor erosion at headwall on WS toe.					
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe					
through the levee, 11.9 feet below the crown. Flap gate on the					
waterside (WS) end. Concrete headwall on each end. [Additional					
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M					
Manual 601.1, 1967, (HLM 15.09)].					
FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34664\_62454.jpg



Headwall and inlet on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	15.11	Rating **	M	Issue No.	1344 (cont)	
LM End	15.11	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.156805 °	37.156805 °	
				-120.609513 °	-120.609513 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34664						
DS_ID:19712						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Minor erosion at headwall on WS toe.						
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe						
through the levee, 11.9 feet below the crown. Flap gate on the						
waterside (WS) end. Concrete headwall on each end. [Additional						
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M						
Manual 601.1, 1967, (HLM 15.09)].						
FS Date: 4/23/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_34664\_62453.jpg



Headwall and inlet on LS toe.

LM Start	15.11	Rating **	M	Issue No.	1344 (cont)
LM End	15.11	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34664\_62452.jpg



Inside pipe at LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	15.81	Rating **	M	Issue No.	1346
LM End	15.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.149381 °	37.149381 °
				-120.600761 °	-120.600761 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39596 DS_ID:19715 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Excess vegetation at inlet on LS toe should be cleared. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete saddle and apron on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.80)]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39596\_62464.jpg



Headwall, pipe, and flapgate on WS toe.

LM Start	<b>15.81</b>	Rating **	M	Issue No.	<b>1346 (cont)</b>
LM End	<b>15.81</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39596\_62467.jpg



Headwall, pipe, and flapgate on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	15.81	Rating **	M	Issue No.	1346 (cont)
LM End	15.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.149381 °	37.149381 °
				-120.600761 °	-120.600761 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39596 DS_ID:19715 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Excess vegetation at inlet on LS toe should be cleared. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete saddle and apron on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.80)]. FS Date: 4/23/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39596\_62466.jpg



Headwall and pipe visible at LS toe.

LM Start	16.11	Rating **	M	Issue No.	1
LM End	16.12	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.145965 °	37.145965 °
				-120.597597 °	-120.597597 °
DWR ID	NA0010U05RM13.85				
Comment Code					
Inspector Comment					
09/20/2017: The erosion was discovered during spring levee inspection. The site is covered by dense vegetation and the measurements of the erosion are estimated. [2017 Site ID:NA0010U05RM13.85]					

Photo 1 of 4 : SP\_2018\_NA0010\_123\_1\_20180307\_00001.jpg



Looking down at the erosion from the levee top. Note the dense vegetation.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	16.11	Rating **	M	Issue No.	1 (cont)	
LM End	16.12	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.145965 °		37.145965 °
				-120.597597 °		-120.597597 °
DWR ID	NA0010U05RM13.85					
Comment Code						
Inspector Comment						
09/20/2017: The erosion was discovered during spring levee inspection. The site is covered by dense vegetation and the measurements of the erosion are estimated. [2017 Site ID:NA0010U05RM13.85]						

LM Start	16.11	Rating **	M	Issue No.	1 (cont)
LM End	16.12	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : SP\_2018\_NA0010\_123\_1\_20180307\_00002.jpg



Close view of the erosion.

Photo 3 of 4 : SP\_2018\_NA0010\_123\_1\_20180307\_00003.jpg



Close view of the erosion.

LM Start	16.11	Rating **	M	Issue No.	1 (cont)
LM End	16.12	Issue Type +	Ma	Location *	WS

Photo 4 of 4 : SP\_2018\_NA0010\_123\_1\_20180307\_00004.jpg



Looking down at the erosion.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	16.11	Rating **	C	Issue No.	110
LM End	16.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.145965 °	37.142963 °
				-120.597597 °	-120.595087 °
DWR ID	DWR_NA0010_05_s_2017_110				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
LMA repairing eight to ten inch erosion on waterside toe.					

No Photos

LM Start	16.68	Rating **	M	Issue No.	1347
LM End	16.68	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.138760 °	37.138760 °
				-120.592393 °	-120.592393 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34725					
DS_ID:19716					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe heavily silted on LS toe.					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through the levee, 10.5 feet below the crown. Flap gate on the					
waterside (WS) end. Concrete headwall on each end. [Additional					
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M					
Manual 601.1, 1967, (HLM 16.67)].					
FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34725\_62469.jpg



Headwall, flapgate, and pipe visible on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	16.68	Rating **	M	Issue No.	1347 (cont)	
LM End	16.68	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.138760 °	37.138760 °	
				-120.592393 °	-120.592393 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34725						
DS_ID:19716						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe heavily silted on LS toe.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 10.5 feet below the crown. Flap gate on the						
waterside (WS) end. Concrete headwall on each end. [Additional						
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M						
Manual 601.1, 1967, (HLM 16.67)].						
FS Date: 4/23/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_34725\_62471.jpg



Headwall, flapgate, and pipe visible on WS toe.

LM Start	<b>16.68</b>	Rating **	M	Issue No.	<b>1347 (cont)</b>
LM End	<b>16.68</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34725\_62470.jpg



Concrete headwall and pipe visible on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	17.22	Rating **	M	Issue No.	1348
LM End	17.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.132211 °	37.132211 °
				-120.587106 °	-120.587106 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39597 DS_ID:19717 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.20)]. FS Date: 4/23/2014					

LM Start	17.22	Rating **	M	Issue No.	1348 (cont)
LM End	17.22	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39597\_62481.jpg



Headwall, flapgate, and pipe visible on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39597\_62483.jpg



Headwall, flapgate, and pipe visible on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	17.22	Rating **	M	Issue No.	1348 (cont)
LM End	17.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.132211 °	37.132211 °
				-120.587106 °	-120.587106 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39597 DS_ID:19717 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.20)]. FS Date: 4/23/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39597\_62482.jpg



Headwall and pipe visible on LS toe.

LM Start	17.54	Rating **	M	Issue No.	1349
LM End	17.54	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.127843 °	37.127843 °
				-120.585245 °	-120.585245 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39599 DS_ID:19743 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.52)]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39599\_62485.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	17.54	Rating **	M	Issue No.	1349 (cont)	
LM End	17.54	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.127843 °		37.127843 °
				-120.585245 °		-120.585245 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39599 DS_ID:19743 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 17.52)]. FS Date: 4/23/2014						

LM Start	17.54	Rating **	M	Issue No.	1349 (cont)
LM End	17.54	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39599\_62486.jpg



Pipe and headwall visible on LS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39599\_62488.jpg



Inside pipe on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	18.09	Rating **	M	Issue No.	1350
LM End	18.09	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.120309 °	37.120309 °
				-120.582041 °	-120.582041 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34747					
DS_ID:19745					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Animal burrows in levee on both slopes.					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through the levee, 12.4 feet below the crown. Flap gate on the					
waterside (WS) end. Concrete headwall on each end. [Additional					
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M					
Manual 601.1, 1967, (HLM 18.07)].					
FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34747\_62494.jpg



Headwall, pipe, and flapgate on WS toe.

LM Start	<b>18.09</b>	Rating **	M	Issue No.	<b>1350 (cont)</b>
LM End	<b>18.09</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_34747\_62495.jpg



Headwall, pipe, and flapgate on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	18.09	Rating **	M	Issue No.	1350 (cont)	
LM End	18.09	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.120309 °	37.120309 °	
				-120.582041 °	-120.582041 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34747						
DS_ID:19745						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Animal burrows in levee on both slopes.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 12.4 feet below the crown. Flap gate on the						
waterside (WS) end. Concrete headwall on each end. [Additional						
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M						
Manual 601.1, 1967, (HLM 18.07)].						
FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34747\_62493.jpg



Headwall and pipe visible on LS toe.

LM Start	18.70	Rating **	M	Issue No.	1351
LM End	18.70	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.115472 °	37.115472 °
				-120.573628 °	-120.573628 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39600					
DS_ID:19746					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.					
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 18.68)].					
FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39600\_62499.jpg



Headwall, pipe and flapgate visible on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	18.70	Rating **	M	Issue No.	1351 (cont)
LM End	18.70	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.115472 °	37.115472 °
				-120.573628 °	-120.573628 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39600 DS_ID:19746 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 18.68)]. FS Date: 4/23/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_39600\_62498.jpg



Headwall, pipe and flapgate visible on WS toe.

LM Start	18.70	Rating **	M	Issue No.	1351 (cont)
LM End	18.70	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39600\_62500.jpg



Headwall and pipe on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	19.15	Rating **	M	Issue No.	1352
LM End	19.15	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.115466 °	37.115466 °
				-120.565467 °	-120.565467 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39601 DS_ID:19747 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.11)]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39601\_62504.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	19.15	Rating **	M	Issue No.	1352 (cont)
LM End	19.15	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39601\_62506.jpg



Headwall, pipe, and flapgate visible on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	19.15	Rating **	M	Issue No.	1352 (cont)
LM End	19.15	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.115466 °	37.115466 °
				-120.565467 °	-120.565467 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39601 DS_ID:19747 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side-- recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.11)]. FS Date: 4/23/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39601\_62505.jpg



Headwall and pipe visible on LS toe.

LM Start	19.17	Rating **	A/W	Issue No.	1353
LM End	19.17	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.115463 °	37.115463 °
				-120.565086 °	-120.565086 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34751					
DS_ID:19776					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.15)].					
FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34751\_62509.jpg



Headwall, pipe, and flapgate visible on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	19.17	Rating **	A/W	Issue No.	1353 (cont)
LM End	19.17	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.115463 °	37.115463 °
				-120.565086 °	-120.565086 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34751 DS_ID:19776 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.15)]. FS Date: 4/23/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_34751\_62511.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	19.17	Rating **	A/W	Issue No.	1353 (cont)
LM End	19.17	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34751\_62510.jpg



Headwall and pipe visible on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	19.48	Rating **	M	Issue No.	1354	
LM End	19.48	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.113542 °		37.113542 °
				-120.560389 °		-120.560389 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39602 DS_ID:19777 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.46)]. FS Date: 4/23/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39602\_62514.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	<b>19.48</b>	Rating **	M	Issue No.	<b>1354 (cont)</b>
LM End	<b>19.48</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39602\_62516.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	19.48	Rating **	M	Issue No.	1354 (cont)	
LM End	19.48	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.113542 °	37.113542 °	
				-120.560389 °	-120.560389 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39602						
DS_ID:19777						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.46)].						
FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39602\_62515.jpg



Headwall and pipe visible on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	19.52	Rating **	M	Issue No.	1356
LM End	19.52	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.112953 °	37.112953 °
				-120.559943 °	-120.559943 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39603  
DS\_ID:19778  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.50)].  
FS Date: 4/23/2014

LM Start	<b>19.52</b>	Rating **	M	Issue No.	<b>1356 (cont)</b>
LM End	<b>19.52</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39603\_62519.jpg



Headwall, pipe, and flapgate visible on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39603\_62521.jpg



Headwall, pipe, and flapgate visible on WS toe.

* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	19.52	Rating **	M	Issue No.	1356 (cont)	
LM End	19.52	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.112953 °	37.112953 °	
				-120.559943 °	-120.559943 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39603 DS_ID:19778 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.50)]. FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39603\_62520.jpg



Headwall and pipe visible on LS toe.

LM Start	19.86	Rating **	A/W	Issue No.	1357
LM End	19.86	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.109284 °	37.109284 °
				-120.555948 °	-120.555948 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34754 DS_ID:19779 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.84)]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34754\_62525.jpg



Headwall and pipe visible on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	19.86	Rating **	A/W	Issue No.	1357 (cont)
LM End	19.86	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.109284 °	37.109284 °
				-120.555948 °	-120.555948 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34754 DS_ID:19779 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.84)]. FS Date: 4/23/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_34754\_62524.jpg



Headwall and pipe visible on LS toe.

LM Start	<b>19.86</b>	Rating **	A/W	Issue No.	<b>1357 (cont)</b>
LM End	<b>19.86</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34754\_62523.jpg



Inside pipe on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	19.94	Rating **	A/W	Issue No.	1358	
LM End	19.94	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.108426 °		37.108426 °
				-120.554990 °		-120.554990 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34755						
DS_ID:19780						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.92)].						
FS Date: 4/23/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_34755\_62529.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	<b>19.94</b>	Rating **	A/W	Issue No.	<b>1358 (cont)</b>
LM End	<b>19.94</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_34755\_62530.jpg



Headwall, pipe, and flapgate visible on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	19.94	Rating **	A/W	Issue No.	1358 (cont)	
LM End	19.94	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.108426 °	37.108426 °	
				-120.554990 °	-120.554990 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34755 DS_ID:19780 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.92)]. FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34755\_62528.jpg



Headwall and pipe visible on LS toe.

LM Start	20.10	Rating **	A/W	Issue No.	1359
LM End	20.10	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.107091 °	37.107091 °
				-120.553503 °	-120.553503 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34757 DS_ID:19781 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 9.9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 20.05)]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34757\_62533.jpg



Headwall, pipe, and flapgate visible on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	20.24	Rating **	A/W	Issue No.	1361
LM End	20.24	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.105489 °	37.105489 °
				-120.551886 °	-120.551886 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34760					
DS_ID:19783					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe					
through the levee, 10.6 feet below the crown. Flap gate on the					
waterside (WS) end. Concrete headwall on each end. [Additional					
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M					
Manual 601.1, 1967, (HLM 20.18)].					
FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_34760\_62539.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	<b>20.24</b>	Rating **	A/W	Issue No.	<b>1361 (cont)</b>
LM End	<b>20.24</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_34760\_62541.jpg



Headwall, pipe, and flapgate visible on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	20.24	Rating **	A/W	Issue No.	1361 (cont)	
LM End	20.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.105489 °	37.105489 °	
				-120.551886 °	-120.551886 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34760						
DS_ID:19783						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe						
through the levee, 10.6 feet below the crown. Flap gate on the						
waterside (WS) end. Concrete headwall on each end. [Additional						
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M						
Manual 601.1, 1967, (HLM 20.18)].						
FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34760\_62540.jpg



Headwall and pipe visible on LS toe.

LM Start	20.65	Rating **	M	Issue No.	1362
LM End	20.65	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.100903 °	37.100903 °
				-120.547282 °	-120.547282 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39605 DS_ID:19784 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 20.59)]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39605\_62544.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	20.65	Rating **	M	Issue No.	1362 (cont)
LM End	20.65	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.100903 °	37.100903 °
				-120.547282 °	-120.547282 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:39605  
DS\_ID:19784  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 20.59)].  
FS Date: 4/23/2014

LM Start	<b>20.65</b>	Rating **	M	Issue No.	<b>1362 (cont)</b>
LM End	<b>20.65</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39605\_62543.jpg



Headwall, pipe, and flapgate visible on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39605\_62545.jpg



Headwall and pipe visible on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	21.13	Rating **	M	Issue No.	1363
LM End	21.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.095603 °	37.095603 °
				-120.541593 °	-120.541593 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39606 DS_ID:19785 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 21.08)]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39606\_62549.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	21.13	Rating **	M	Issue No.	1363 (cont)
LM End	21.13	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39606\_62551.jpg



Headwall, pipe, and flapgate visible on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	21.13	Rating **	M	Issue No.	1363 (cont)	
LM End	21.13	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.095603 °	37.095603 °	
				-120.541593 °	-120.541593 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39606 DS_ID:19785 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 21.08)]. FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39606\_62550.jpg



Headwall and pipe visible on LS toe.

LM Start	21.45	Rating **	M	Issue No.	120
LM End	21.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.092064 °	37.092064 °
				-120.537750 °	-120.537750 °
DWR ID	DWR_NA0010_05_f_2017_120				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair holes dug at the landside toe.					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_120\_20180307\_00025.jpg



Looking southeast at the landside toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	21.48	Rating **	M	Issue No.	1364
LM End	21.48	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.091755 °	37.091755 °
				-120.537414 °	-120.537414 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39614 DS_ID:19786 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 12.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 21.42)]. FS Date: 4/23/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39614\_62555.jpg



Headwall, pipe, and flapgate visible on WS toe.

LM Start	<b>21.48</b>	Rating **	M	Issue No.	<b>1364 (cont)</b>
LM End	<b>21.48</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39614\_62556.jpg



Headwall, pipe, and flapgate visible on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	21.48	Rating **	M	Issue No.	1364 (cont)
LM End	21.48	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.091755 °	37.091755 °
				-120.537414 °	-120.537414 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39614 DS_ID:19786 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 12.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 21.42)]. FS Date: 4/23/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39614\_62554.jpg



Headwall and pipe visible on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	21.91	Rating **	M	Issue No.	1365 (cont)	
LM End	21.91	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.087525 °		37.087525 °
				-120.532827 °		-120.532827 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39883 DS_ID:19787 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 21.81)]. FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39883\_62560.jpg



Headwall and pipe visible on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	21.95	Rating **	M	Issue No.	1366 (cont)	
LM End	21.95	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.087108 °	37.087108 °	
				-120.532374 °	-120.532374 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39610						
DS_ID:19788						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.						
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 21.85)].						
FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39610\_62587.jpg



Headwall and pipe visible on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	22.28	Rating **	M	Issue No.	1367
LM End	22.28	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.083410 °	37.083410 °
				-120.528356 °	-120.528356 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39611  
DS\_ID:19789  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 22.19)].  
FS Date: 4/23/2014

LM Start	<b>22.28</b>	Rating **	M	Issue No.	<b>1367 (cont)</b>
LM End	<b>22.28</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39611\_62591.jpg



Headwall, pipe, and flapgate visible on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39611\_62593.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	22.28	Rating **	M	Issue No.	1367 (cont)	
LM End	22.28	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.083410 °	37.083410 °	
				-120.528356 °	-120.528356 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39611 DS_ID:19789 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 22.19)]. FS Date: 4/23/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39611\_62592.jpg



Headwall and pipe visible on LS toe.

LM Start	22.35	Rating **	M	Issue No.	121
LM End	22.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.082696 °	37.082696 °
				-120.527620 °	-120.527620 °
DWR ID	DWR_NA0010_05_f_2017_121				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Waterside slope damaged by animal traffic.					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_121\_20180307\_00026.jpg



Looking southeast at the waterside slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	22.55	Rating **	M	Issue No.	1368
LM End	22.55	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.080486 °	37.080486 °
				-120.525180 °	-120.525180 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39613  
DS\_ID:19790  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 22.79)].  
FS Date: 4/23/2014

LM Start	<b>22.55</b>	Rating **	M	Issue No.	<b>1368 (cont)</b>
LM End	<b>22.55</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39613\_62596.jpg



Headwall, pipe, and flapgate visible on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39613\_62598.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	22.55	Rating **	M	Issue No.	1368 (cont)
LM End	22.55	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.080486 °	37.080486 °
				-120.525180 °	-120.525180 °
DWR ID					

Photo 3 of 3 : UCIP\_SP\_2018\_39613\_62597.jpg



Headwall and pipe visible on LS toe.

Comment Code					
Inspector Comment					
FS_ID:39613 DS_ID:19790 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 22.79)]. FS Date: 4/23/2014					

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	22.89	Rating **	M	Issue No.	1369
LM End	22.89	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.076830 °	37.076830 °
				-120.521116 °	-120.521116 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39616  
DS\_ID:19791  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 22.94)].  
FS Date: 4/23/2014

LM Start	<b>22.89</b>	Rating **	M	Issue No.	<b>1369 (cont)</b>
LM End	<b>22.89</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39616\_62601.jpg



Headwall, pipe, and flapgate visible on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39616\_62600.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	<b>22.89</b>	Rating **	M	Issue No.	<b>1369 (cont)</b>
LM End	<b>22.89</b>	Issue Type +	Ma	Location *	
Category	Supplemental	GPS Latitude/Longitude			
		Start		End	
Item	DWR UCIP LMA Responsibility	37.076830 °		37.076830 °	
		-120.521116 °		-120.521116 °	
DWR ID					

Photo 3 of 3 : UCIP\_SP\_2018\_39616\_62602.jpg



Headwall and pipe visible on LS toe.

Comment Code					
Inspector Comment					
FS_ID:39616 DS_ID:19791 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 22.94)]. FS Date: 4/23/2014					

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	23.03	Rating **	M	Issue No.	1370
LM End	23.03	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.075387 °	37.075387 °
				-120.519406 °	-120.519406 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:39617  
DS\_ID:19792  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 22.79)].  
FS Date: 4/23/2014

LM Start	<b>23.03</b>	Rating **	M	Issue No.	<b>1370 (cont)</b>
LM End	<b>23.03</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39617\_62606.jpg



Headwall, pipe, and flapgate visible on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39617\_62608.jpg



Headwall, pipe, and flapgate visible on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	23.03	Rating **	M	Issue No.	1370 (cont)
LM End	23.03	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.075387 °	37.075387 °
				-120.519406 °	-120.519406 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39617 DS_ID:19792 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 22.79)]. FS Date: 4/23/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39617\_62607.jpg



Headwall and pipe visible on LS toe.

LM Start	23.25	Rating **	A/W	Issue No.	1372
LM End	23.25	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.072989 °	37.072989 °
				-120.516687 °	-120.516687 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32763 DS_ID:19794 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 11.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 23.15)]. FS Date: 3/25/2014 9:04:45 AM					

Photo 1 of 3 : UCIP\_SP\_2018\_32763\_59262.jpg



Concrete headwall on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	23.25	Rating **	A/W	Issue No.	1372 (cont)	
LM End	23.25	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.072989 °		37.072989 °
				-120.516687 °		-120.516687 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32763 DS_ID:19794 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 11.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 23.15)]. FS Date: 3/25/2014 9:04:45 AM						

Photo 2 of 3 : UCIP\_SP\_2018\_32763\_59263.jpg



Flapgate and concrete headwall on WS toe.

LM Start	<b>23.25</b>	Rating **	A/W	Issue No.	<b>1372 (cont)</b>
LM End	<b>23.25</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_32763\_59261.jpg



Concrete headwall on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	23.72	Rating **	M	Issue No.	1373
LM End	23.72	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.067799 °	37.067799 °
				-120.511093 °	-120.511093 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39621 DS_ID:19796 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 12.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 23.62)]. FS Date: 3/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39621\_59272.jpg



Concrete headwall on WS toe.

LM Start	<b>23.72</b>	Rating **	M	Issue No.	<b>1373 (cont)</b>
LM End	<b>23.72</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39621\_59270.jpg



Flapgate on Concrete headwall on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	24.02	Rating **	M	Issue No.	1374
LM End	24.02	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.064494 °	37.064494 °
				-120.507531 °	-120.507531 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39620 DS_ID:19797 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Minor sediment/debris buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 12.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 23.85)]. FS Date: 3/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39620\_59282.jpg



Concrete headwall on WS toe.

LM Start	<b>24.02</b>	Rating **	M	Issue No.	<b>1374 (cont)</b>
LM End	<b>24.02</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39620\_59280.jpg



Flapgate at Concrete headwall on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	24.02	Rating **	M	Issue No.	1374 (cont)	
LM End	24.02	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.064494 °	37.064494 °	
				-120.507531 °	-120.507531 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39620 DS_ID:19797 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Minor sediment/debris buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 12.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 23.85)]. FS Date: 3/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39620\_59281.jpg



Concrete headwall on LS toe.

LM Start	24.28	Rating **	M	Issue No.	1375
LM End	24.28	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.061724 °	37.061724 °
				-120.504512 °	-120.504512 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46850 DS_ID:19798 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 24.18)]. FS Date: 3/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_46850\_59287.jpg



Concrete headwall at WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	24.28	Rating **	M	Issue No.	1375 (cont)	
LM End	24.28	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.061724 °		37.061724 °
				-120.504512 °		-120.504512 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:46850 DS_ID:19798 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 24.18)]. FS Date: 3/25/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_46850\_59285.jpg



Flapgate at concrete headwall at WS toe.

LM Start	<b>24.28</b>	Rating **	M	Issue No.	<b>1375 (cont)</b>
LM End	<b>24.28</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_46850\_59286.jpg



Concrete headwall at LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	24.56	Rating **	M	Issue No.	1376 (cont)	
LM End	24.56	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.058673 °	37.058673 °	
				-120.501238 °	-120.501238 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39623 DS_ID:19799 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 24.46)]. FS Date: 3/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39623\_59291.jpg



Concrete headwall on LS toe.

LM Start	24.93	Rating **	A/W	Issue No.	1377
LM End	24.93	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.054481 °	37.054481 °
				-120.496798 °	-120.496798 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32786 DS_ID:19800 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 24.82)]. FS Date: 3/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_32786\_59297.jpg



Concrete headwall on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	24.93	Rating **	A/W	Issue No.	1377 (cont)	
LM End	24.93	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.054481 °	37.054481 °	
				-120.496798 °	-120.496798 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32786						
DS_ID:19800						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 24.82)].						
FS Date: 3/25/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_32786\_59295.jpg



Flapgate on concrete headwall on WS toe.

LM Start	<b>24.93</b>	Rating **	A/W	Issue No.	<b>1377 (cont)</b>
LM End	<b>24.93</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_32786\_59296.jpg



Concrete headwall on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	24.96	Rating **	A/W	Issue No.	1378
LM End	24.96	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.054344 °	37.054344 °
				-120.496214 °	-120.496214 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39624 DS_ID:19801 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 10.9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 24.87)]. FS Date: 3/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39624\_59302.jpg



Flapgate and channel off WS toe.

LM Start	<b>24.96</b>	Rating **	A/W	Issue No.	<b>1378 (cont)</b>
LM End	<b>24.96</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39624\_59301.jpg



Concrete headwall on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	24.96	Rating **	A/W	Issue No.	1378 (cont)	
LM End	24.96	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.054344 °		37.054344 °
				-120.496214 °		-120.496214 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39624 DS_ID:19801 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 10.9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 24.87)]. FS Date: 3/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39624\_59303.jpg



Flapgate on headwall at WS toe.

LM Start	24.98	Rating **	M	Issue No.	123
LM End	25.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.054150 °	37.051252 °
				-120.495964 °	-120.492368 °
DWR ID	DWR_NA0010_05_f_2017_123				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_123\_20180307\_00028.jpg



Looking southwest at the landside slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	25.24	Rating **	M	Issue No.	1380
LM End	25.24	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.051477 °	37.051477 °
				-120.492650 °	-120.492650 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32789 DS_ID:19803 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Flapgate propped open during flood season. FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 25.13)]. FS Date: 3/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_32789\_59311.jpg



Concrete headwall and flapgate on WS toe.

LM Start	<b>25.24</b>	Rating **	M	Issue No.	<b>1380 (cont)</b>
LM End	<b>25.24</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_32789\_59312.jpg



Concrete headwall and flapgate on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	25.24	Rating **	M	Issue No.	1380 (cont)	
LM End	25.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.051477 °		37.051477 °
				-120.492650 °		-120.492650 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32789						
DS_ID:19803						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Flapgate propped open during flood season.						
FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe						
through the levee, 11.3 feet below the crown. Flap gate on the						
waterside (WS) end. Concrete headwall on the landside (LS) end.						
Concrete U-shaped headwall on the WS end. [Additional Reference(s):						
DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967,						
(HLM 25.13)].						
FS Date: 3/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_32789\_59310.jpg



Concrete headwall on LS toe.

LM Start	25.28	Rating **	M	Issue No.	9
LM End	25.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.051076 °	37.047042 °
				-120.492153 °	-120.488092 °
DWR ID	DWR_NA0010_05_s_2012_9				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	25.61	Rating **	M	Issue No.	1381
LM End	25.61	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.047455 °	37.047455 °
				-120.488443 °	-120.488443 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39625  
DS\_ID:19804  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.  
FIELD\_STRUCT\_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 25.51)].  
FS Date: 3/25/2014

LM Start	<b>25.61</b>	Rating **	M	Issue No.	<b>1381 (cont)</b>
LM End	<b>25.61</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39625\_59316.jpg



Concrete headwall on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39625\_59317.jpg



Flapgate on concrete headwall at WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	25.61	Rating **	M	Issue No.	1381 (cont)	
LM End	25.61	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.047455 °	37.047455 °	
				-120.488443 °	-120.488443 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39625 DS_ID:19804 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 25.51)]. FS Date: 3/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39625\_59315.jpg



Concrete headwall on LS toe.

LM Start	25.61	Rating **	U	Issue No.	124
LM End	25.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.047416 °	37.047416 °
				-120.488411 °	-120.488411 °
DWR ID	DWR_NA0010_05_f_2017_124				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_124\_20180307\_00029.jpg



Looking east at the waterside slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	25.63	Rating **	M	Issue No.	1382
LM End	25.63	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.047170 °	37.047170 °
				-120.488222 °	-120.488222 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39626 DS_ID:19805 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 12.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 25.53)]. FS Date: 3/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39626\_59321.jpg



Flapgate on headwall at WS toe.

LM Start	<b>25.63</b>	Rating **	M	Issue No.	<b>1382 (cont)</b>
LM End	<b>25.63</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39626\_59320.jpg



Concrete headwall on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	25.63	Rating **	M	Issue No.	1382 (cont)
LM End	25.63	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.047170 °	37.047170 °
				-120.488222 °	-120.488222 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39626 DS_ID:19805 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side-- recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 12.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 25.53)]. FS Date: 3/25/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39626\_59319.jpg



Inside pipe on LS toe.

LM Start	26.20	Rating **	M	Issue No.	1383
LM End	26.20	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.040070 °	37.040070 °
				-120.482796 °	-120.482796 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39627 DS_ID:19806 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side-- recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 26.11)]. FS Date: 3/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39627\_59341.jpg



Concrete headwall on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	26.20	Rating **	M	Issue No.	1383 (cont)	
LM End	26.20	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.040070 °	37.040070 °	
				-120.482796 °	-120.482796 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39627 DS_ID:19806 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 26.11)]. FS Date: 3/25/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39627\_59340.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	<b>26.20</b>	Rating **	M	Issue No.	<b>1383 (cont)</b>
LM End	<b>26.20</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39627\_59342.jpg



Concrete headwall on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	26.39	Rating **	A/W	Issue No.	1384
LM End	26.39	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.037772 °	37.037772 °
				-120.481028 °	-120.481028 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32804 DS_ID:19807 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 26.29)]. FS Date: 3/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_32804\_59347.jpg



Concrete headwall on LS toe.

LM Start	<b>26.39</b>	Rating **	A/W	Issue No.	<b>1384 (cont)</b>
LM End	<b>26.39</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_32804\_59346.jpg



Concrete headwall on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	26.39	Rating **	A/W	Issue No.	1384 (cont)
LM End	26.39	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.037772 °	37.037772 °
				-120.481028 °	-120.481028 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32804					
DS_ID:19807					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 26.29)].					
FS Date: 3/25/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_32804\_59345.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	26.95	Rating **	M	Issue No.	1385
LM End	26.95	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.032669 °	37.032669 °
				-120.473901 °	-120.473901 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39628 DS_ID:19808 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe has heavy silt buildup visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 26.85)]. FS Date: 3/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39628\_59350.jpg



Concrete headwall on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	26.95	Rating **	M	Issue No.	1385 (cont)	
LM End	26.95	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.032669 °	37.032669 °	
				-120.473901 °	-120.473901 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39628 DS_ID:19808 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe has heavy silt buildup visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 26.85)]. FS Date: 3/25/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39628\_59349.jpg



Concrete headwall on LS toe.

LM Start	<b>26.95</b>	Rating **	M	Issue No.	<b>1385 (cont)</b>
LM End	<b>26.95</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39628\_59348.jpg



Silt buildup in pipe at LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	26.97	Rating **	M	Issue No.	1386
LM End	26.97	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.032680 °	37.032680 °
				-120.473454 °	-120.473454 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32806 DS_ID:19748 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Tumble weed buildup at inlet mat create blockage and should be removed. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 26.87)]. FS Date: 3/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_32806\_59353.jpg



Concrete headwall at WS toe.

LM Start	<b>26.97</b>	Rating **	M	Issue No.	<b>1386 (cont)</b>
LM End	<b>26.97</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_32806\_59355.jpg



Flapgate and Concrete headwall at WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	26.97	Rating **	M	Issue No.	1386 (cont)	
LM End	26.97	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.032680 °	37.032680 °	
				-120.473454 °	-120.473454 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32806 DS_ID:19748 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Tumble weed buildup at inlet mat create blockage and should be removed. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 26.87)]. FS Date: 3/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_32806\_59354.jpg



Concrete headwall at LS toe.

LM Start	27.01	Rating **	M	Issue No.	125
LM End	27.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.032675 °	37.032675 °
				-120.472841 °	-120.472841 °
DWR ID	DWR_NA0010_05_f_2017_125				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_125\_20180307\_00030.jpg



Looking north at the landside slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	27.31	Rating **	A/W	Issue No.	1387
LM End	27.31	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.032668 °	37.032668 °
				-120.467299 °	-120.467299 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32807 DS_ID:19749 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 27.22)]. FS Date: 3/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_32807\_59358.jpg



Concrete headwall on WS toe.

LM Start	<b>27.31</b>	Rating **	A/W	Issue No.	<b>1387 (cont)</b>
LM End	<b>27.31</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_32807\_59359.jpg



Flapgate at Concrete headwall on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	27.31	Rating **	A/W	Issue No.	1387 (cont)	
LM End	27.31	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.032668 °	37.032668 °	
				-120.467299 °	-120.467299 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32807						
DS_ID:19749						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 27.22)].						
FS Date: 3/25/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_32807\_59357.jpg



Concrete headwall on LS toe.

LM Start	28.27	Rating **	M	Issue No.	1388
LM End	28.27	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.032623 °	37.032623 °
				-120.450108 °	-120.450108 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32823 DS_ID:19750 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Animal Burrowing activity at LS toe may undermine headwall. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 28.17)]. FS Date: 3/25/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_32823\_59382.jpg



Concrete headwall on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	28.27	Rating **	M	Issue No.	1388 (cont)	
LM End	28.27	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.032623 °	37.032623 °	
				-120.450108 °	-120.450108 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32823 DS_ID:19750 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Animal Burrowing activity at LS toe may undermine headwall. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 28.17)]. FS Date: 3/25/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_32823\_59383.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	<b>28.27</b>	Rating **	M	Issue No.	<b>1388 (cont)</b>
LM End	<b>28.27</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_32823\_59381.jpg



Concrete headwall on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	28.79	Rating **	A/W	Issue No.	1389
LM End	28.79	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.031640 °	37.031640 °
				-120.441389 °	-120.441389 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32832 DS_ID:19751 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 28.69)]. FS Date: 3/27/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_32832\_59420.jpg



Concrete headwall on WS toe.

LM Start	<b>28.79</b>	Rating **	A/W	Issue No.	<b>1389 (cont)</b>
LM End	<b>28.79</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_32832\_59419.jpg



Concrete headwall on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	28.79	Rating **	A/W	Issue No.	1389 (cont)	
LM End	28.79	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.031640 °	37.031640 °	
				-120.441389 °	-120.441389 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32832						
DS_ID:19751						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 30-inch corrugated metal gravity drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 28.69)].						
FS Date: 3/27/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_32832\_59418.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	29.58	Rating **	M	Issue No.	1391	
LM End	29.58	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.021497 °	37.021497 °	
				-120.434602 °	-120.434602 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39884 DS_ID:19753 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe. FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 29.49)]. FS Date: 3/27/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39884\_59414.jpg



Concrete headwall on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	29.58	Rating **	M	Issue No.	1391 (cont)
LM End	29.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.021497 °	37.021497 °
				-120.434602 °	-120.434602 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39884  
DS\_ID:19753  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend contacting owner to clear pipe.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 29.49)].  
FS Date: 3/27/2014

LM Start	<b>29.58</b>	Rating **	M	Issue No.	<b>1391 (cont)</b>
LM End	<b>29.58</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39884\_59413.jpg



Flapgate on Concrete headwall at WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39884\_59415.jpg



Concrete headwall on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	29.68	Rating **	M	Issue No.	171
LM End	29.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.020272 °	37.018712 °
				-120.433737 °	-120.432682 °
DWR ID	DWR_NA0010_05_s_2014_171				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Waterside erosion caused by livestock.					

Photo 1 of 2 : SP\_2018\_NA0010\_123\_171\_20180307\_00035.jpg



Looking south at animal erosion on waterward slope.

LM Start	<b>29.68</b>	Rating **	M	Issue No.	<b>171 (cont)</b>
LM End	<b>29.80</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2018\_NA0010\_123\_171\_20180307\_00036.jpg



Looking north at animal erosion on waterward slope.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	29.82	Rating **	M	Issue No.	1392
LM End	29.82	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.018505 °	37.018505 °
				-120.432544 °	-120.432544 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39631  
DS\_ID:19754  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 30-inch by 30-inch reinforced concrete box gravity drainage culvert through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 29.72)].  
FS Date: 3/27/2014

LM Start	<b>29.82</b>	Rating **	M	Issue No.	<b>1392 (cont)</b>
LM End	<b>29.82</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39631\_59424.jpg



Concrete headwall on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39631\_59426.jpg



Flapgate on Concrete headwall at WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	29.82	Rating **	M	Issue No.	1392 (cont)	
LM End	29.82	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.018505 °	37.018505 °	
				-120.432544 °	-120.432544 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39631						
DS_ID:19754						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.						
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box gravity drainage culvert through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 29.72)].						
FS Date: 3/27/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39631\_59425.jpg



Concrete headwall on LS toe.

LM Start	29.88	Rating **	M	Issue No.	129
LM End	31.19	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.017748 °	37.002885 °
				-120.432013 °	-120.417550 °
DWR ID	DWR_NA0010_05_f_2017_129				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	29.88	Rating **	A/W	Issue No.	128
LM End	31.19	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.017747 °	37.002885 °
				-120.432013 °	-120.417550 °
DWR ID	DWR_NA0010_05_f_2017_128				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_128\_20180307\_00033.jpg



Looking southeast at the crown.

LM Start	29.89	Rating **	M	Issue No.	16
LM End	29.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.017540 °	37.017540 °
				-120.431955 °	-120.431955 °
DWR ID	DWR_NA0010_05_s_2012_16				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	30.14	Rating **	M	Issue No.	1393
LM End	30.14	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.014471 °	37.014471 °
				-120.429759 °	-120.429759 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39632					
DS_ID:19696					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.					
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box gravity drainage culvert through the levee, 13.1 feet below the crown.					
Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.					
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 30.04)].					
FS Date: 3/27/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39632\_59430.jpg



Concrete headwall on WS toe.

LM Start	<b>30.14</b>	Rating **	M	Issue No.	<b>1393 (cont)</b>
LM End	<b>30.14</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39632\_59431.jpg



Flapgate on Concrete headwall at WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	30.14	Rating **	M	Issue No.	1393 (cont)	
LM End	30.14	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.014471 °	37.014471 °	
				-120.429759 °	-120.429759 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39632						
DS_ID:19696						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.						
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box gravity drainage culvert through the levee, 13.1 feet below the crown.						
Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 30.04)].						
FS Date: 3/27/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39632\_59429.jpg



Concrete headwall on LS toe.

LM Start	30.33	Rating **	M	Issue No.	133
LM End	30.33	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.012070 °	37.012070 °
				-120.428101 °	-120.428101 °
DWR ID	DWR_NA0010_05_s_2018_133				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Minor depression on levee crown. Possible sink hole.					

Photo 1 of 2 : SP\_2018\_NA0010\_123\_133\_20180411\_00312.jpg



Looking east at depression on levee crown. (Spring 2018)

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	30.33	Rating **	M	Issue No.	133 (cont)
LM End	30.33	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.012070 °	37.012070 °
				-120.428101 °	-120.428101 °
DWR ID	DWR_NA0010_05_s_2018_133				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Minor depression on levee crown. Possible sink hole.					

Photo 2 of 2 : SP\_2018\_NA0010\_123\_133\_20180411\_00313.jpg



Looking north at depression on levee crown. (Spring 2018)

LM Start	31.06	Rating **	M	Issue No.	1394
LM End	31.06	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.004212 °	37.004212 °
				-120.419178 °	-120.419178 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39633 DS_ID:19697 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some debris buildup at LS toe. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box gravity drainage culvert through the levee, 13.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 30.96)]. FS Date: 3/27/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39633\_59435.jpg



Concrete headwall on WS toe.

* 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 : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	31.06	Rating **	M	Issue No.	1394 (cont)
LM End	31.06	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.004212 °	37.004212 °
				-120.419178 °	-120.419178 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:39633  
DS\_ID:19697  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Some debris buildup at LS toe. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 30-inch by 30-inch reinforced concrete box gravity drainage culvert through the levee, 13.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.  
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 30.96)].  
FS Date: 3/27/2014

LM Start	<b>31.06</b>	Rating **	M	Issue No.	<b>1394 (cont)</b>
LM End	<b>31.06</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39633\_59436.jpg



Flapgate on Concrete headwall at WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39633\_59434.jpg



Concrete headwall on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	31.30	Rating **	M	Issue No.	1395
LM End	31.30	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.001754 °	37.001754 °
				-120.416254 °	-120.416254 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39643					
DS_ID:19698					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Excess vegetation buildup at inlet on LS toe. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box gravity drainage culvert through the levee, 13.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.					
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 31.19)].					
FS Date: 3/27/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39643\_59439.jpg



Concrete headwall on WS toe.

LM Start	<b>31.30</b>	Rating **	M	Issue No.	<b>1395 (cont)</b>
LM End	<b>31.30</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39643\_59440.jpg



Flapgate at concrete headwall on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	31.30	Rating **	M	Issue No.	1395 (cont)	
LM End	31.30	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.001754 °	37.001754 °	
				-120.416254 °	-120.416254 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39643 DS_ID:19698 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Excess vegetation buildup at inlet on LS toe. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box gravity drainage culvert through the levee, 13.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 31.19)]. FS Date: 3/27/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39643\_59438.jpg



Concrete headwall on LS toe.

LM Start	31.74	Rating **	A/W	Issue No.	1396
LM End	31.74	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.997001 °	36.997001 °
				-120.410991 °	-120.410991 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39644					
DS_ID:19699					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 48-inch by 36-inch reinforced concrete box gravity drainage culvert through the levee, 14.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 31.64)].					
FS Date: 3/27/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39644\_59444.jpg



Concrete headwall on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	31.74	Rating **	A/W	Issue No.	1396 (cont)	
LM End	31.74	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			36.997001 °	36.997001 °	
				-120.410991 °	-120.410991 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39644						
DS_ID:19699						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 48-inch by 36-inch reinforced concrete box gravity drainage culvert through the levee, 14.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 31.64)].						
FS Date: 3/27/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39644\_59442.jpg



Concrete headwall on WS toe.

LM Start	<b>31.74</b>	Rating **	A/W	Issue No.	<b>1396 (cont)</b>
LM End	<b>31.74</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39644\_59443.jpg



Concrete headwall on LS toe. Note tumbleweeds blocking inlet.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	31.80	Rating **	M	Issue No.	1397
LM End	31.80	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.995029 °	36.995029 °
				-120.408914 °	-120.408914 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:39645  
DS\_ID:19700  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 30-inch by 30-inch reinforced concrete box gravity drainage culvert through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end with flashboard attachment. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 31.71)].  
FS Date: 4/1/2014

LM Start	<b>31.80</b>	Rating **	M	Issue No.	<b>1397 (cont)</b>
LM End	<b>31.80</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39645\_59686.jpg



Concrete headwall at channel on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39645\_59687.jpg



Flapgate on Concrete headwall at channel on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	31.80	Rating **	M	Issue No.	1397 (cont)	
LM End	31.80	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			36.995029 °	36.995029 °	
				-120.408914 °	-120.408914 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39645 DS_ID:19700 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box gravity drainage culvert through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end with flashboard attachment. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 31.71)]. FS Date: 4/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39645\_59685.jpg



Concrete headwall on LS toe.

LM Start	32.32	Rating **	M	Issue No.	1398
LM End	32.32	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.989435 °	36.989435 °
				-120.402626 °	-120.402626 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39646 DS_ID:19701 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some silt buildup inside culvert. FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box gravity drainage culvert through the levee, 14.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end with flashboard attachment. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 32.22)]. FS Date: 4/1/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39646\_59690.jpg



Concrete headwall at inlet on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	32.32	Rating **	M	Issue No.	1398 (cont)
LM End	32.32	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.989435 °	36.989435 °
				-120.402626 °	-120.402626 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:39646  
DS\_ID:19701  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Some silt buildup inside culvert.  
FIELD\_STRUCT\_DESC: 30-inch by 30-inch reinforced concrete box gravity drainage culvert through the levee, 14.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end with flashboard attachment. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 32.22)].  
FS Date: 4/1/2014

LM Start	<b>32.32</b>	Rating **	M	Issue No.	<b>1398 (cont)</b>
LM End	<b>32.32</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39646\_59688.jpg



Flapgate on Concrete headwall at WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39646\_59689.jpg



Concrete headwall at outlet on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	33.11	Rating **	M	Issue No.	1399
LM End	33.11	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.980861 °	36.980861 °
				-120.393116 °	-120.393116 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39647  
DS\_ID:19702  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Debris buildup blocking landward headwall--recommend contacting owner to clear debris.  
FIELD\_STRUCT\_DESC: 30-inch by 30-inch reinforced concrete box gravity drainage culvert through the levee, 12.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.  
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 33.01)].  
FS Date: 4/1/2014

LM Start	<b>33.11</b>	Rating **	M	Issue No.	<b>1399 (cont)</b>
LM End	<b>33.11</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39647\_59697.jpg



Concrete headwall at WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39647\_59699.jpg



Flapgate on Concrete headwall at WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	33.11	Rating **	M	Issue No.	1399 (cont)
LM End	33.11	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.980861 °	36.980861 °
				-120.393116 °	-120.393116 °
DWR ID					

Photo 3 of 3 : UCIP\_SP\_2018\_39647\_59698.jpg



Concrete headwall at inlet on LS toe.

Comment Code					
Inspector Comment					
FS_ID:39647 DS_ID:19702 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Debris buildup blocking landward headwall--recommend contacting owner to clear debris. FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box gravity drainage culvert through the levee, 12.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 33.01)]. FS Date: 4/1/2014					

* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	33.81	Rating **	M	Issue No.	1400
LM End	33.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.976808 °	36.976808 °
				-120.382593 °	-120.382593 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39648  
DS\_ID:19703  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 30-inch by 30-inch reinforced concrete box gravity drainage culvert through the levee, 13.9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.  
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 33.72)].  
FS Date: 4/1/2014

LM Start	<b>33.81</b>	Rating **	M	Issue No.	<b>1400 (cont)</b>
LM End	<b>33.81</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39648\_59701.jpg



Concrete headwall at WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39648\_59700.jpg



Flapgate on Concrete headwall at WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	04/03/2018 04/05/2018	Richard Willoughby

LM Start	33.81	Rating **	M	Issue No.	1400 (cont)	
LM End	33.81	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			36.976808 °	36.976808 °	
				-120.382593 °	-120.382593 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39648 DS_ID:19703 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box gravity drainage culvert through the levee, 13.9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 33.72)]. FS Date: 4/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39648\_59702.jpg



Concrete headwall at LS toe.

LM Start	33.82	Rating **	M	Issue No.	130
LM End	33.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.976849 °	36.976849 °
				-120.382393 °	-120.382393 °
DWR ID	DWR_NA0010_05_f_2017_130				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_123\_130\_20180307\_00034.jpg



Looking east at the landside shoulder.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>79</b>
LM End	<b>36.47</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.275814 °	36.974092 °	
			-120.825863 °	-120.363201 °	
DWR ID	DWR_NA0010_06_s _ 2018_79				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>87</b>
LM End	<b>36.47</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.275815 °	36.974091 °	
			-120.825863 °	-120.363201 °	
DWR ID	DWR_NA0010_06_s _ 2018_87				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	0.78	Rating **	M	Issue No.	1214
LM End	0.78	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.270460 °	37.270460 °
				-120.814290 °	-120.814290 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36565 DS_ID:19816 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Landward side blocked--need to contact owner to determine status of crossing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 16.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.86)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36565\_66346.jpg



Overview of waterward side.

LM Start	<b>0.78</b>	Rating **	M	Issue No.	<b>1214 (cont)</b>
LM End	<b>0.78</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36565\_66345.jpg



Concrete structure located on waterward toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	0.78	Rating **	M	Issue No.	1214 (cont)	
LM End	0.78	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.270460 °		37.270460 °
				-120.814290 °		-120.814290 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36565 DS_ID:19816 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Landward side blocked--need to contact owner to determine status of crossing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 16.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.86)]. FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36565\_66344.jpg



View of landward side.

LM Start	1.84	Rating **	M	Issue No.	125
LM End	1.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.259527 °	37.259527 °
				-120.803300 °	-120.803300 °
DWR ID	DWR_NA0010_06_s_2012_125				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	1.87	Rating **	M	Issue No.	1215 (cont)	
LM End	1.87	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.259312 °	37.259312 °	
				-120.802863 °	-120.802863 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36566 DS_ID:19817 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No access was available to landward side due to fence. Recommend removing some of the vegetation on waterward toe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 13.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.95)]. FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36566\_66349.jpg



Flap gate visible on waterward side.

LM Start	2.53	Rating **	M	Issue No.	1216
LM End	2.53	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.252948 °	37.252948 °
				-120.794352 °	-120.794352 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39464 DS_ID:19818 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Sediment buildup in pipe visible on landward side. FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 6.9 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.61)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39464\_66354.jpg



View of waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	2.53	Rating **	M	Issue No.	1216 (cont)	
LM End	2.53	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.252948 °		37.252948 °
				-120.794352 °		-120.794352 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39464 DS_ID:19818 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Sediment buildup in pipe visible on landward side. FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 6.9 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.61)]. FS Date: 4/18/2014						

LM Start	<b>2.53</b>	Rating **	M	Issue No.	<b>1216 (cont)</b>
LM End	<b>2.53</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39464\_66357.jpg



View of waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_39464\_66356.jpg



CMP riser, concrete headwall, and pipe visible on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	<b>2.53</b>	Rating **	M	Issue No.	<b>76</b>
LM End	<b>2.53</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.252935 °	37.252935 °	
			-120.794349 °	-120.794349 °	
DWR ID	DWR_NA0010_06_f_2016_76				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	<b>2.57</b>	Rating **	M	Issue No.	<b>1217</b>
LM End	<b>2.57</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		37.252743 °	37.252743 °	
			-120.793756 °	-120.793756 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36568 DS_ID:19819 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe condition on landward toe--headwall blocked by dense vegetation. Recommend removing vegetation from landward toe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.65)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36568\_66362.jpg



Overview of levee crown at crossing.

* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	2.57	Rating **	M	Issue No.	1217 (cont)	
LM End	2.57	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.252743 °	37.252743 °	
				-120.793756 °	-120.793756 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36568 DS_ID:19819 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe condition on landward toe--headwall blocked by dense vegetation. Recommend removing vegetation from landward toe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.65)]. FS Date: 4/18/2014						

LM Start	<b>2.57</b>	Rating **	M	Issue No.	<b>1217 (cont)</b>
LM End	<b>2.57</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36568\_66360.jpg



View of waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36568\_66359.jpg



View of concrete headwall, flap gate, and concrete apron located on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	2.77	Rating **	M	Issue No.	1218	
LM End	2.77	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.253020 °		37.253020 °
				-120.790219 °		-120.790219 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36569						
DS_ID:19820						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe condition on landward toe--headwall blocked by dense vegetation. Recommend removing vegetation from landward toe.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.85)].						
FS Date: 4/18/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36569\_66369.jpg



View of waterward side.

LM Start	<b>2.77</b>	Rating **	M	Issue No.	<b>1218 (cont)</b>
LM End	<b>2.77</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36569\_66368.jpg



Overview of levee crown at crossing.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	2.77	Rating **	M	Issue No.	1218 (cont)
LM End	2.77	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.253020 °	37.253020 °
				-120.790219 °	-120.790219 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36569 DS_ID:19820 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe condition on landward toe--headwall blocked by dense vegetation. Recommend removing vegetation from landward toe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.85)]. FS Date: 4/18/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_36569\_66372.jpg



View of landward side.

LM Start	3.01	Rating **	M	Issue No.	1219
LM End	3.01	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.253811 °	37.253811 °
				-120.786059 °	-120.786059 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36583 DS_ID:19821 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe condition on landward toe--headwall blocked by dense vegetation. Recommend removing vegetation from landward toe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.09)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36583\_66381.jpg



View of waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	3.01	Rating **	M	Issue No.	1219 (cont)	
LM End	3.01	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.253811 °	37.253811 °	
				-120.786059 °	-120.786059 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36583						
DS_ID:19821						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe condition on landward toe--headwall blocked by dense vegetation. Recommend removing vegetation from landward toe.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.09)].						
FS Date: 4/18/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_36583\_66380.jpg



Flap gate and concrete headwall visible on waterward side.

LM Start	<b>3.01</b>	Rating **	M	Issue No.	<b>1219 (cont)</b>
LM End	<b>3.01</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_36583\_66383.jpg



View of landward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	3.21	Rating **	M	Issue No.	1220 (cont)	
LM End	3.21	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.253513 °	37.253513 °	
				-120.782509 °	-120.782509 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36584 DS_ID:19822 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe condition on waterward slope and landward toe (headwall blocked by dense vegetation). Recommend removing vegetation from landward toe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.29)]. FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36584\_66385.jpg



Crossing goes through the levee at an angle. Flap gate visible on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	3.38	Rating **	M	Issue No.	1221
LM End	3.38	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.252152 °	37.252152 °
				-120.779969 °	-120.779969 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36585  
DS\_ID:19823  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Alignment of crossing unknown--altered crossing. No headwall found on landward side only siphon breaker found a short distance from landward toe. Tall grass observed on waterward slope and some burrow activity also noticed. Need to contact owner to determine alignment of crossing and status of crossing.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 15.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on each end. Bench mark (BM) stamped 9770-152 on top of the WS headwall. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.43)].  
FS Date: 4/18/2014

LM Start	<b>3.38</b>	Rating **	M	Issue No.	<b>1221 (cont)</b>
LM End	<b>3.38</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_36585\_66389.jpg



Overview of levee crown at crossing.

Photo 2 of 3 : UCIP\_SP\_2018\_36585\_66390.jpg



Flap gate and concrete headwall visible on waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	3.38	Rating **	M	Issue No.	1221 (cont)
LM End	3.38	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.252152 °	37.252152 °
				-120.779969 °	-120.779969 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:36585  
DS\_ID:19823  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Alignment of crossing unknown--altered crossing. No headwall found on landward side only siphon breaker found a short distance from landward toe. Tall grass observed on waterward slope and some burrow activity also noticed. Need to contact owner to determine alignment of crossing and status of crossing.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 15.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on each end. Bench mark (BM) stamped 9770-152 on top of the WS headwall. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.43)].  
FS Date: 4/18/2014

Photo 3 of 3 : UCIP\_SP\_2018\_36585\_66391.jpg



View of landward side. No signs of concrete headwall only siphon breaker visible on landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	3.47	Rating **	M	Issue No.	1223
LM End	3.47	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.251687 °	37.251687 °
				-120.778534 °	-120.778534 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39465  
DS\_ID:19825  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Sediment buildup inside pipe visible from landward side. Excess soil is also present on landward toe partially blocking concrete headwall and inlet. Recommend removing soil from landward toe and clear buildup inside.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 6.8 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on each end. Pipe connects to a 30-inch steel drainage pipe on the WS. Drainage pipe extends to the pump on the WS on a support platform in the channel. (Extension drainage pipe and pump installed under Permit No. 12527, 1979 - Joseph Gallo).  
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.54)].  
FS Date: 4/18/2014

LM Start	<b>3.47</b>	Rating **	M	Issue No.	<b>1223 (cont)</b>
LM End	<b>3.47</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39465\_66394.jpg



View of waterward side--cmp riser and concrete headwall visible.

Photo 2 of 3 : UCIP\_SP\_2018\_39465\_66395.jpg



Inside view of cmp riser located on waterward slope.

* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

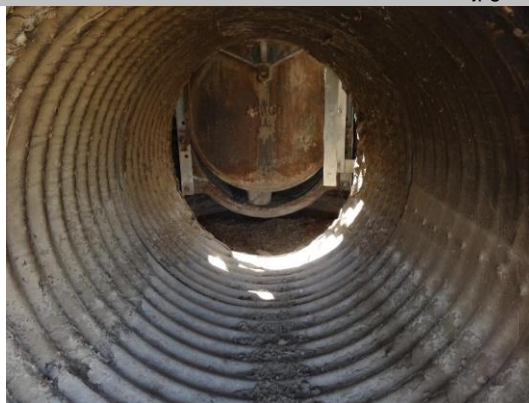
LM Start	3.47	Rating **	M	Issue No.	1223 (cont)
LM End	3.47	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.251687 °	37.251687 °
				-120.778534 °	-120.778534 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39465  
DS\_ID:19825  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Sediment buildup inside pipe visible from landward side. Excess soil is also present on landward toe partially blocking concrete headwall and inlet. Recommend removing soil from landward toe and clear buildup inside.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 6.8 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on each end. Pipe connects to a 30-inch steel drainage pipe on the WS. Drainage pipe extends to the pump on the WS on a support platform in the channel. (Extension drainage pipe and pump installed under Permit No. 12527, 1979 - Joseph Gallo).  
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.54)].  
FS Date: 4/18/2014

Photo 3 of 3 : UCIP\_SP\_2018\_39465\_66397.jpg



Inside view of pipe from waterward side.

LM Start	3.49	Rating **	M	Issue No.	67
LM End	3.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.251602 °	37.251602 °
				-120.778118 °	-120.778118 °
DWR ID	DWR NA0010 06 f 2017 67				

**Comment Code**

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

**Inspector Comment**

Photo 1 of 1 : SP\_2018\_NA0010\_124\_67\_20180307\_00017.jpg



Looking east at the landside slope.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	3.69	Rating **	M	Issue No.	1224	
LM End	3.69	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.251199 °		37.251199 °
				-120.774474 °		-120.774474 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39466 DS_ID:19826 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup inside crossing and is visible from landward side. Recommend clearing sediment buildup inside pipe and check wall integrity to determine condition. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.77)]. FS Date: 4/18/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39466\_66413.jpg



View of waterward side.

LM Start	<b>3.69</b>	Rating **	M	Issue No.	<b>1224 (cont)</b>
LM End	<b>3.69</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39466\_66412.jpg



View of landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	3.69	Rating **	M	Issue No.	1224 (cont)	
LM End	3.69	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.251199 °	37.251199 °	
				-120.774474 °	-120.774474 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39466 DS_ID:19826 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup inside crossing and is visible from landward side. Recommend clearing sediment buildup inside pipe and check wall integrity to determine condition. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.77)]. FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39466\_66411.jpg



View of flap gate visible on waterward side.

LM Start	3.89	Rating **	M	Issue No.	1225
LM End	3.89	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.250742 °	37.250742 °
				-120.771026 °	-120.771026 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39467					
DS_ID:19827					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Sediment buildup inside crossing and is visible from landward side. Recommend clearing sediment buildup inside pipe and check wall integrity to determine condition.					
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 6.7 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope.					
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.97)].					
FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39467\_66407.jpg



View of waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	3.89	Rating **	M	Issue No.	1225 (cont)	
LM End	3.89	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.250742 °	37.250742 °	
				-120.771026 °	-120.771026 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39467						
DS_ID:19827						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Sediment buildup inside crossing and is visible from landward side. Recommend clearing sediment buildup inside pipe and check wall integrity to determine condition.						
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 6.7 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.97)].						
FS Date: 4/18/2014						

LM Start	<b>3.89</b>	Rating **	M	Issue No.	<b>1225 (cont)</b>
LM End	<b>3.89</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39467\_66406.jpg



Slide gate inside CMP riser visible on waterward slope.

Photo 3 of 3 : UCIP\_SP\_2018\_39467\_66410.jpg



Inside view of CMP riser located on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	4.09	Rating **	M	Issue No.	1226
LM End	4.09	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.248353 °	37.248353 °
				-120.768922 °	-120.768922 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36606 DS_ID:19828 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe condition on landward toe--headwall blocked by dense vegetation. Recommend removing vegetation from landward toe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.17)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36606\_66418.jpg



View of waterward side.

LM Start	<b>4.09</b>	Rating **	M	Issue No.	<b>1226 (cont)</b>
LM End	<b>4.09</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36606\_66417.jpg



Overview of levee crown at crossing.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	4.09	Rating **	M	Issue No.	1226 (cont)
LM End	4.09	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.248353 °	37.248353 °
				-120.768922 °	-120.768922 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36606 DS_ID:19828 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe condition on landward toe--headwall blocked by dense vegetation. Recommend removing vegetation from landward toe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.17)]. FS Date: 4/18/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_36606\_66416.jpg



Concrete headwall visible on landward side.

LM Start	4.33	Rating **	M	Issue No.	1227
LM End	4.33	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.246459 °	37.246459 °
				-120.765470 °	-120.765470 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36607 DS_ID:19829 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe condition on landward toe--headwall blocked by dense vegetation. Recommend removing vegetation from landward toe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.41)]. FS Date: 4/18/2014					

Photo 1 of 2 : UCIP\_SP\_2018\_36607\_66422.jpg



View of waterward side--concrete headwall and flap gate visible.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	4.33	Rating **	M	Issue No.	1227 (cont)
LM End	4.33	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.246459 °	37.246459 °
				-120.765470 °	-120.765470 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36607 DS_ID:19829 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe condition on landward toe--headwall blocked by dense vegetation. Recommend removing vegetation from landward toe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.41)]. FS Date: 4/18/2014					

Photo 2 of 2 : UCIP\_SP\_2018\_36607\_66421.jpg



View of landward side--concrete headwall visible through dense vegetation.

LM Start	4.62	Rating **	M	Issue No.	1228	
LM End	4.62	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.243946 °		37.243946 °
				-120.761296 °		-120.761296 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39468 DS_ID:19830 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment buildup inside crossing visible from landward side. Recommend clearing sediment buildup inside pipe and check wall integrity to determine condition. FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 6.9 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on the landside (LS) end. Concrete saddle and apron on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.70)]. FS Date: 4/18/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39468\_66425.jpg



Overview of levee crown at crossing.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	<b>4.62</b>	Rating **	M	Issue No.	<b>1228 (cont)</b>
LM End	<b>4.62</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		37.243946 °	37.243946 °	
			-120.761296 °	-120.761296 °	
DWR ID					

Comment Code

Inspector Comment

FS\_ID:39468  
DS\_ID:19830  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Sediment buildup inside crossing visible from landward side. Recommend clearing sediment buildup inside pipe and check wall integrity to determine condition.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 6.9 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on the landside (LS) end. Concrete saddle and apron on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.70)].  
FS Date: 4/18/2014

LM Start	<b>4.62</b>	Rating **	M	Issue No.	<b>1228 (cont)</b>
LM End	<b>4.62</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39468\_66426.jpg



Inside view of CMP riser located on waterward.

Photo 3 of 3 : UCIP\_SP\_2018\_39468\_66424.jpg



Inside view of pipe from waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	4.66	Rating **	M	Issue No.	10
LM End	4.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.243540 °	37.243540 °
				-120.760782 °	-120.760782 °
DWR ID	DWR_NA0010_06_s_2012_10				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes next to fence post on landside slope.					

Photo 1 of 2 : SP\_2018\_NA0010\_124\_10\_20180307\_00012.jpg



Looking at rodent hole along fence line on landward slope.

LM Start	<b>4.66</b>	Rating **	M	Issue No.	<b>10 (cont)</b>
LM End	<b>4.66</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2018\_NA0010\_124\_10\_20180307\_00013.jpg



Looking at typical rodent holes on landward slope.

\* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	4.67	Rating **	M	Issue No.	1229
LM End	4.67	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.243408 °	37.243408 °
				-120.760564 °	-120.760564 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36609					
DS_ID:19831					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Recommend removing tall grass on landward toe to determine condition of crossing from landward side.					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.75)].					
FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36609\_66433.jpg



View of waterward side.

LM Start	<b>4.67</b>	Rating **	M	Issue No.	<b>1229 (cont)</b>
LM End	<b>4.67</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36609\_66432.jpg



Flap gate, concrete headwall and apron visible on waterward toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	4.67	Rating **	M	Issue No.	1229 (cont)
LM End	4.67	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.243408 °	37.243408 °
				-120.760564 °	-120.760564 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36609 DS_ID:19831 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend removing tall grass on landward toe to determine condition of crossing from landward side. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.75)]. FS Date: 4/18/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_36609\_66431.jpg



View of landward side.

LM Start	4.86	Rating **	M	Issue No.	1230	
LM End	4.86	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.242024 °	37.242024 °	
				-120.757602 °	-120.757602 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36610 DS_ID:19862 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along waterward slope to conduct proper inspection of structure. Also recommend removing dense vegetation blocking landward headwall. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.94)]. FS Date: 4/18/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36610\_66436.jpg



View of waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	4.86	Rating **	M	Issue No.	1230 (cont)	
LM End	4.86	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.242024 °		37.242024 °
				-120.757602 °		-120.757602 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36610 DS_ID:19862 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along waterward slope to conduct proper inspection of structure. Also recommend removing dense vegetation blocking landward headwall. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.94)]. FS Date: 4/18/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_36610\_66438.jpg



View of flap gate, concrete headwall and apron located on waterward side.

LM Start	<b>4.86</b>	Rating **	M	Issue No.	<b>1230 (cont)</b>
LM End	<b>4.86</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_36610\_66437.jpg



Close up of flap gate located on waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	5.26	Rating **	M	Issue No.	1231
LM End	5.26	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.239098 °	37.239098 °
				-120.751774 °	-120.751774 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39875 DS_ID:19863 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Clear vegetation from waterward slope and landward headwall. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.34)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39875\_61599.jpg



View of waterward side.

LM Start	<b>5.26</b>	Rating **	M	Issue No.	<b>1231 (cont)</b>
LM End	<b>5.26</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39875\_61598.jpg



Overview of levee crown at crossing.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	5.26	Rating **	M	Issue No.	1231 (cont)
LM End	5.26	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.239098 °	37.239098 °
				-120.751774 °	-120.751774 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39875 DS_ID:19863 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Clear vegetation from waterward slope and landward headwall. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.34)]. FS Date: 4/18/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39875\_61597.jpg



View of landward side.

LM Start	5.55	Rating **	M	Issue No.	1232
LM End	5.55	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.238610 °	37.238610 °
				-120.746591 °	-120.746591 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36611 DS_ID:19864 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Also recommend removing excess vegetation at landward headwall. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.63)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36611\_66441.jpg



Concrete headwall and flap gate visible on waterward toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	5.55	Rating **	M	Issue No.	1232 (cont)	
LM End	5.55	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.238610 °	37.238610 °	
				-120.746591 °	-120.746591 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36611 DS_ID:19864 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Also recommend removing excess vegetation at landward headwall. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.63)]. FS Date: 4/18/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_36611\_66440.jpg



View of waterward side--dense vegetation covers slope.

LM Start	5.55	Rating **	M	Issue No.	1232 (cont)
LM End	5.55	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_36611\_66439.jpg



View of landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	5.81	Rating **	U	Issue No.	66
LM End	5.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.238189 °	37.238189 °
				-120.741946 °	-120.741946 °
DWR ID	DWR_NA0010_06_f_2017_66				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_66\_20180307\_00016.jpg



Looking southwest at the landside slope.

LM Start	5.98	Rating **	A/W	Issue No.	1233
LM End	5.98	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.236414 °	37.236414 °
				-120.739735 °	-120.739735 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51312 DS_ID:19865 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 7/19/2016 Site has been repaired on WS and LS (see photos below). (DWR UCIP - omagana)5/26/2016 Erosion is undermining the WS headwall of drainage structure (photos of WS headwall provided by DWR Inspector R. Willoughby). Potential pipe failure at the outlet just behind headwall, recommend completing internal wall integrity of pipe length through levee to determine extent of damage to pipe. (DWR UCIP - omagana)4/18/2014 Need to contact owner. Sediment buildup in pipe visible on landside--recommend clearing. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.06)]. FS Date: 7/19/2016					

Photo 1 of 3 : UCIP\_SP\_2018\_51312\_75493.jpg



View of WS--rock protection along drainage path.

* 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 : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	5.98	Rating **	A/W	Issue No.	1233 (cont)
LM End	5.98	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.236414 °	37.236414 °
				-120.739735 °	-120.739735 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51312  
DS\_ID:19865  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 7/19/2016 Site has been repaired on WS and LS (see photos below). (DWR UCIP - omagana)5/26/2016 Erosion is undermining the WS headwall of drainage structure (photos of WS headwall provided by DWR Inspector R. Willoughby). Potential pipe failure at the outlet just behind headwall, recommend completing internal wall integrity of pipe length through levee to determine extent of damage to pipe. (DWR UCIP - omagana)4/18/2014 Need to contact owner. Sediment buildup in pipe visible on landside--recommend clearing. (DWR UCIP - omagana)  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.06)].  
FS Date: 7/19/2016

LM Start	<b>5.98</b>	Rating **	A/W	Issue No.	<b>1233 (cont)</b>
LM End	<b>5.98</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_51312\_75488.jpg



WS drainage path protected by rip rap.

Photo 3 of 3 : UCIP\_SP\_2018\_51312\_75489.jpg



Inside view of pipe from WS.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	6.06	Rating **	M	Issue No.	22
LM End	6.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.235777 °	37.235777 °
				-120.738598 °	-120.738598 °
DWR ID	DWR_NA0010_06_s _ 2012_22				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	6.09	Rating **	M	Issue No.	21
LM End	6.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.235623 °	37.235623 °
				-120.738017 °	-120.738017 °
DWR ID	DWR_NA0010_06_s _ 2012_21				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	6.44	Rating **	M	Issue No.	6
LM End	11.00	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.233587 °	37.187645 °
				-120.732480 °	-120.676996 °
DWR ID	DWR_NA0010_06_s _ 2012_6				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Levee crown should be regraded due to excessive rutting and potholes on levee crown..					

Photo 1 of 2 : SP\_2018\_NA0010\_124\_6\_20180307\_00010.jpg



Looking upstream at large pot hole on 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	6.44	Rating **	M	Issue No.	6 (cont)	
LM End	11.00	Issue Type +	Ma	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Crown Surface / Depressions / Rutting			37.233587 °		37.187645 °
				-120.732480 °		-120.676996 °
DWR ID	DWR_NA0010_06_s_2012_6					
Comment Code						
C2 : Repair depressions or ruts in the crown or slope.						
Inspector Comment						
Levee crown should be regraded due to excessive rutting and potholes on levee crown..						

Photo 2 of 2 : SP\_2018\_NA0010\_124\_6\_20180307\_00011.jpg



Looking downstream at typical view of rutting and pot holes on levee crown.

LM Start	6.70	Rating **	A/W	Issue No.	1234
LM End	6.70	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.230508 °	37.230508 °
				-120.729634 °	-120.729634 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33984 DS_ID:19866 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 7 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on the landside (LS) end. Concrete saddle and apron on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.79)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33984\_61628.jpg



Slide gate inside CMP riser and pipe visible on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	6.70	Rating **	A/W	Issue No.	1234 (cont)	
LM End	6.70	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.230508 °	37.230508 °	
				-120.729634 °	-120.729634 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33984 DS_ID:19866 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 7 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on the landside (LS) end. Concrete saddle and apron on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.79)]. FS Date: 4/18/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_33984\_61627.jpg



Concrete headwall visible on waterward side.

LM Start	<b>6.70</b>	Rating **	A/W	Issue No.	<b>1234 (cont)</b>
LM End	<b>6.70</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_33984\_61626.jpg



Inside view pipe from waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	6.89	Rating **	A/W	Issue No.	1235
LM End	6.89	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.228253 °	37.228253 °
				-120.727865 °	-120.727865 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:33985  
DS\_ID:19867  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments:  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 10.7 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.97)].  
FS Date: 4/18/2014

LM Start	<b>6.89</b>	Rating **	A/W	Issue No.	<b>1235 (cont)</b>
LM End	<b>6.89</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_33985\_61640.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_33985\_61639.jpg



Concrete headwall and CMP riser visible on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	6.89	Rating **	A/W	Issue No.	1235 (cont)	
LM End	6.89	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.228253 °	37.228253 °	
				-120.727865 °	-120.727865 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33985 DS_ID:19867 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 10.7 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 6.97)]. FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33985\_61638.jpg



View of landward side.

LM Start	7.10	Rating **	M	Issue No.	7
LM End	7.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.226675 °	37.226675 °
				-120.724498 °	-120.724498 °
DWR ID	DWR_NA0010_06_s_2012_7				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	7.21	Rating **	M	Issue No.	1236
LM End	7.21	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.226102 °	37.226102 °
				-120.722739 °	-120.722739 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39471 DS_ID:19868 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Clear animal from waterward side. Some sediment buildup in pipe visible landward side--recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.29)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39471\_61650.jpg



View of waterward side.

LM Start	7.21	Rating **	M	Issue No.	1236 (cont)
LM End	7.21	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39471\_61649.jpg



Concrete headwall and flap gate visible on waterward side. Dead animal inside pipe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	7.21	Rating **	M	Issue No.	1236 (cont)
LM End	7.21	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.226102 °	37.226102 °
				-120.722739 °	-120.722739 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39471 DS_ID:19868 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Clear animal from waterward side. Some sediment buildup in pipe visible landward side--recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.29)]. FS Date: 4/18/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39471\_61648.jpg



View of landward side.

LM Start	7.66	Rating **	M	Issue No.	1237
LM End	7.66	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.222743 °	37.222743 °
				-120.716416 °	-120.716416 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39472 DS_ID:19869 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some sediment buildup in pipe visible on landward side--recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. Skewed crossing. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.74)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39472\_66462.jpg



View of waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	7.66	Rating **	M	Issue No.	1237 (cont)
LM End	7.66	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.222743 °	37.222743 °
				-120.716416 °	-120.716416 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39472 DS_ID:19869 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some sediment buildup in pipe visible on landward side--recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. Skewed crossing. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 7.74)]. FS Date: 4/18/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_39472\_66461.jpg



Pipe crosses levee at an angle.

LM Start	<b>7.66</b>	Rating **	M	Issue No.	<b>1237 (cont)</b>
LM End	<b>7.66</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39472\_66460.jpg



Concrete headwall and flap gate visible on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	8.08	Rating **	M	Issue No.	65
LM End	8.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.217199 °	37.217199 °
				-120.713374 °	-120.713374 °
DWR ID	DWR_NA0010_06_f_2017_65				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_65\_20180307\_00015.jpg



Looking southwest at the landside slope.

LM Start	8.13	Rating **	M	Issue No.	1238	
LM End	8.13	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.216547 °		37.216547 °
				-120.713000 °		-120.713000 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39473						
DS_ID:19870						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Sediment buildup in pipe--recommend contacting owner to clear sediment.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 16.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.21)].						
FS Date: 4/18/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39473\_61674.jpg



View of waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	8.13	Rating **	M	Issue No.	1238 (cont)
LM End	8.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.216547 °	37.216547 °
				-120.713000 °	-120.713000 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39473					
DS_ID:19870					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Sediment buildup in pipe--recommend contacting owner to clear sediment.					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 16.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.21)].					
FS Date: 4/18/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_39473\_61673.jpg



Pipe crosses levee at an angle.

LM Start	<b>8.13</b>	Rating **	M	Issue No.	<b>1238 (cont)</b>
LM End	<b>8.13</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39473\_61672.jpg



Concrete headwall and flap gate visible on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	8.43	Rating **	M	Issue No.	1239
LM End	8.43	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.213288 °	37.213288 °
				-120.709503 °	-120.709503 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39474 DS_ID:19871 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Sediment buildup in pipe visible on landward side--recommend clearing. Good candidate for pressure test or video inspection due to signs of heavy corrosion. If no leaks after tests this crossing would be a good candidate for rehabilitation. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.51)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39474\_61685.jpg



View of waterward side.

LM Start	<b>8.43</b>	Rating **	M	Issue No.	<b>1239 (cont)</b>
LM End	<b>8.43</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39474\_61684.jpg



View of landward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	8.43	Rating **	M	Issue No.	1239 (cont)	
LM End	8.43	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.213288 °	37.213288 °	
				-120.709503 °	-120.709503 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39474						
DS_ID:19871						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner. Sediment buildup in pipe visible on landward side--recommend clearing. Good candidate for pressure test or video inspection due to signs of heavy corrosion. If no leaks after tests this crossing would be a good candidate for rehabilitation.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.51)].						
FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39474\_61683.jpg



Pipe crosses levee at an angle.

LM Start	11.49	Rating **	M	Issue No.	14
LM End	11.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.186189 °	37.186189 °
				-120.668476 °	-120.668476 °
DWR ID	DWR_NA0010_06_s_2015_14				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Almond tree located along Sandy Mush Rd. on waterside slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_14\_20180307\_00014.jpg



Looking west at tree on waterward slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	11.74	Rating **	M	Issue No.	1249	
LM End	11.74	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.185513 °	37.185513 °	
				-120.664561 °	-120.664561 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39476						
DS_ID:19876						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Clear debris from waterward and landward toes.						
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe						
through the levee, 17 feet below the crown. Slide gate in a pipe riser on						
the waterside (WS) slope. [Additional Reference(s): DWR Levee Log,						
2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.82)].						
FS Date: 4/17/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39476\_66488.jpg



View of waterward side.

LM Start	11.74	Rating **	M	Issue No.	1249 (cont)
LM End	11.74	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39476\_66487.jpg



View of landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	11.74	Rating **	M	Issue No.	1249 (cont)	
LM End	11.74	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.185513 °		37.185513 °
				-120.664561 °		-120.664561 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39476 DS_ID:19876 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Clear debris from waterward and landward toes. FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 17 feet below the crown. Slide gate in a pipe riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 11.82)]. FS Date: 4/17/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39476\_66486.jpg



Slide gate inside CMP riser located on waterward slope.

LM Start	13.22	Rating **	M	Issue No.	1250
LM End	13.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.171675 °	37.171675 °
				-120.655064 °	-120.655064 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39477					
DS_ID:19877					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Not accessible--crossing is buried on landward side.					
Need to contact owner to determine status.					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through the levee, 10.8 feet below the crown. Flap gate on the					
waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002.					
USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.30)].					
FS Date: 4/17/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39477\_66492.jpg



View of levee crown at crossing.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	13.22	Rating **	M	Issue No.	1250 (cont)
LM End	13.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.171675 °	37.171675 °
				-120.655064 °	-120.655064 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39477 DS_ID:19877 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not accessible--crossing is buried on landward side. Need to contact owner to determine status. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.8 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.30)]. FS Date: 4/17/2014					

LM Start	13.22	Rating **	M	Issue No.	1250 (cont)
LM End	13.22	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39477\_66494.jpg



View of waterward slope.

Photo 3 of 3 : UCIP\_SP\_2018\_39477\_66495.jpg



Inside view of CMP riser located on waterward slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	14.36	Rating **	M	Issue No.	1251
LM End	14.36	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.167888 °	37.167888 °
				-120.636419 °	-120.636419 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39478 DS_ID:19878 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not accessible--crossing is buried on landward side. Need to contact owner to determine status. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.3 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 14.44)]. FS Date: 4/17/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39478\_66496.jpg



View of waterward slope.

LM Start	<b>14.36</b>	Rating **	M	Issue No.	<b>1251 (cont)</b>
LM End	<b>14.36</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39478\_66497.jpg



View of pipe daylight, flap gate, and concrete headwall visible on waterward toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	14.36	Rating **	M	Issue No.	1251 (cont)
LM End	14.36	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.167888 °	37.167888 °
				-120.636419 °	-120.636419 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39478 DS_ID:19878 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not accessible--crossing is buried on landward side. Need to contact owner to determine status. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.3 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 14.44)]. FS Date: 4/17/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39478\_66498.jpg



View of landward slope.

LM Start	14.94	Rating **	M	Issue No.	1212
LM End	14.94	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.162287 °	37.162287 °
				-120.628791 °	-120.628791 °
DWR ID	DWR_NA0010_06_s _ 2015_1212				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes noted on levee crown and landside and waterside slopes.					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_1212\_20180307\_00046.jpg



Looking at rodent hole on levee crown.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	15.46	Rating **	M	Issue No.	124
LM End	15.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.158920 °	37.157217 °
				-120.620232 °	-120.618915 °
DWR ID	DWR_NA0010_06_s_2012_124				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	15.68	Rating **	M	Issue No.	1252
LM End	15.68	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.156934 °	37.156934 °
				-120.617210 °	-120.617210 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39480 DS_ID:19884 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Sediment buildup on both the waterward and landward side. Recommend removing sediment buildup from both side. Also recommend clearing excess sediment inside crossing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 14 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.76)]. FS Date: 4/17/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39480\_66507.jpg



Flap gate buried halfway on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	15.68	Rating **	M	Issue No.	1252 (cont)	
LM End	15.68	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.156934 °	37.156934 °	
				-120.617210 °	-120.617210 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39480 DS_ID:19884 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Sediment buildup on both the waterward and landward side. Recommend removing sediment buildup from both side. Also recommend clearing excess sediment inside crossing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 14 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.76)]. FS Date: 4/17/2014						

LM Start	<b>15.68</b>	Rating **	M	Issue No.	<b>1252 (cont)</b>
LM End	<b>15.68</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39480\_66506.jpg



View of waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_39480\_66505.jpg



Overview of levee crown at crossing.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	15.82	Rating **	M	Issue No.	1253 (cont)	
LM End	15.82	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.155539 °	37.155539 °	
				-120.615303 °	-120.615303 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36663 DS_ID:19885 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status of crossing. Waterward side is buried and not accessible. Landward side headwall is blocked by dense vegetation. Recommend confirming status of flap gate on waterward side and removing dense vegetation form landward side. FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 16.6 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 15.91)]. FS Date: 4/17/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36663\_66529.jpg



View of waterward side, photo 3 of 3.

LM Start	16.91	Rating **	U	Issue No.	73
LM End	16.91	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.143827 °	37.143827 °
				-120.602204 °	-120.602204 °
DWR ID	DWR_NA0010_06_f_2017_73				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent hole on crown that travels approximately 4 feet to landside slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_73\_20180307\_00024.jpg



Looking at rodent hole in levee crown.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	18.20	Rating **	M	Issue No.	1255	
LM End	18.20	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.127773 °	37.127773 °	
				-120.590809 °	-120.590809 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39876						
DS_ID:19887						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Sediment build up on landward side toe -- debris blockage. No photos available. Recommend taking photos of crossing.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 18.27)].						
FS Date: 4/17/2014						

No Photos

LM Start	18.89	Rating **	M	Issue No.	1257	
LM End	18.89	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.118178 °	37.118178 °	
				-120.586783 °	-120.586783 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36687						
DS_ID:19889						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.						
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Slide gate in a pipe riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 18.97)].						
FS Date: 4/17/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36687\_66579.jpg



View of waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	18.89	Rating **	M	Issue No.	1257 (cont)
LM End	18.89	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.118178 °	37.118178 °
				-120.586783 °	-120.586783 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:36687  
DS\_ID:19889  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.2 feet below the crown. Slide gate in a pipe riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 18.97)].  
FS Date: 4/17/2014

LM Start	<b>18.89</b>	Rating **	M	Issue No.	<b>1257 (cont)</b>
LM End	<b>18.89</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36687\_66582.jpg



Inside view of CMP riser located on waterward slope.

Photo 3 of 3 : UCIP\_SP\_2018\_36687\_66581.jpg



Pipe daylight on waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	19.14	Rating **	U	Issue No.	1211
LM End	19.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.114793 °	37.114793 °
				-120.587582 °	-120.587582 °
DWR ID	DWR_NA0010_06_s_2015_1211				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several large rodent holes with more than 2 cubic feet of material were noted on the waterside slope.					

LM Start	19.14	Rating **	U	Issue No.	1211 (cont)
LM End	19.14	Issue Type +	Ma	Location *	WS

Photo 1 of 5 : SP\_2018\_NA0010\_124\_1211\_20180307\_00041.jpg



Looking at rodent hole on waterward slope. Spring 2016

Photo 2 of 5 : SP\_2018\_NA0010\_124\_1211\_20180307\_00042.jpg



Looking at several rodent holes on waterward slope. (Fall 2015)

LM Start	19.14	Rating **	U	Issue No.	1211 (cont)
LM End	19.14	Issue Type +	Ma	Location *	WS

Photo 3 of 5 : SP\_2018\_NA0010\_124\_1211\_20180307\_00043.jpg



Looking at close-up view of large rodent hole on waterward slope. (Spring 2015)

* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	19.14	Rating **	U	Issue No.	1211 (cont)
LM End	19.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.114793 °	37.114793 °
				-120.587582 °	-120.587582 °
DWR ID	DWR_NA0010_06_s_2015_1211				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several large rodent holes with more than 2 cubic feet of material were noted on the waterside slope.					

LM Start	19.14	Rating **	U	Issue No.	1211 (cont)
LM End	19.14	Issue Type +	Ma	Location *	WS

Photo 4 of 5 : SP\_2018\_NA0010\_124\_1211\_20180307\_00044.jpg



Looking at large rodent hole on waterward slope. Spring 2015

Photo 5 of 5 : SP\_2018\_NA0010\_124\_1211\_20180307\_00045.jpg



Looking west at several rodent holes on waterward slope. Spring 2015

* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	19.28	Rating **	M	Issue No.	1258	
LM End	19.28	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.112902 °	37.112902 °	
				-120.588751 °	-120.588751 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36688 DS_ID:19890 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 48-inch corrugated metal gravity drainage pipe through the levee, 20 feet below the crown. Slide gate in a pipe riser on the waterside (WS) slope. Riprap along the landside (LS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.36)]. FS Date: 4/17/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36688\_66583.jpg



View of waterward side.

LM Start	19.28	Rating **	M	Issue No.	1258 (cont)
LM End	19.28	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36688\_66584.jpg



Riser located on waterward slope.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	19.28	Rating **	M	Issue No.	1258 (cont)	
LM End	19.28	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.112902 °	37.112902 °	
				-120.588751 °	-120.588751 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36688 DS_ID:19890 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 48-inch corrugated metal gravity drainage pipe through the levee, 20 feet below the crown. Slide gate in a pipe riser on the waterside (WS) slope. Riprap along the landside (LS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.36)]. FS Date: 4/17/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36688\_66586.jpg



View of landward slope.

LM Start	19.94	Rating **	M	Issue No.	1259	
LM End	19.94	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.113304 °	37.113304 °	
				-120.579102 °	-120.579102 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36689						
DS_ID:19891						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box gravity drainage culvert through the levee, 14 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.85)].						
FS Date: 4/17/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36689\_66591.jpg



Overview of levee crown looking downstream.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	19.94	Rating **	M	Issue No.	1259 (cont)
LM End	19.94	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.113304 °	37.113304 °
				-120.579102 °	-120.579102 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36689  
DS\_ID:19891  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 30-inch by 30-inch reinforced concrete box gravity drainage culvert through the levee, 14 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 19.85)].  
FS Date: 4/17/2014

LM Start	<b>19.94</b>	Rating **	M	Issue No.	<b>1259 (cont)</b>
LM End	<b>19.94</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36689\_66592.jpg



View of levee crown at crossing.

Photo 3 of 3 : UCIP\_SP\_2018\_36689\_66590.jpg



View of "U" concrete headwall located on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	20.05	Rating **	M	Issue No.	71
LM End	20.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.113256 °	37.113256 °
				-120.577092 °	-120.577092 °
DWR ID	DWR_NA0010_06_s_2018_71				
Comment Code					
MA : Material					
Inspector Comment					
Material stock pile on waterward shoulder.					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_71\_20180420\_00184.jpg



Looking east at material stockpile on waterward shoulder. (Spring 2018)

LM Start	20.79	Rating **	M	Issue No.	1209
LM End	20.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.113107 °	37.112176 °
				-120.563782 °	-120.562516 °
DWR ID	DWR_NA0010_06_s_2015_1209				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on landside slope greater than 3 inches. Erosion caused by livestock.					

Photo 1 of 2 : SP\_2018\_NA0010\_124\_1209\_20180307\_00039.jpg



Looking north at livestock erosion on landward slope.

LM Start	<b>20.79</b>	Rating **	M	Issue No.	<b>1209 (cont)</b>
LM End	<b>20.88</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2018\_NA0010\_124\_1209\_20180307\_00040.jpg



Looking northeast at livestock erosion on landward slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	22.41	Rating **	M	Issue No.	86
LM End	22.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.094969 °	37.094479 °
				-120.544964 °	-120.544435 °
DWR ID	DWR_NA0010_06_f_2017_86				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Erosion greater than 3 inches on landside slope caused by livestock.					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_86\_20180307\_00035.jpg



Looking northwest at the landside slope.

LM Start	22.99	Rating **	M	Issue No.	8
LM End	23.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.088663 °	37.087968 °
				-120.538193 °	-120.537485 °
DWR ID	DWR_NA0010_06_s_2012_8				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	24.58	Rating **	M	Issue No.	5	
LM End	24.93	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.071198 °		°
				-120.519220 °		°
DWR ID	DWR_NA0010_06_s_2012_5					
Comment Code						
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.						
Inspector Comment						
Landside erosion caused by livestock extends into landward shoulder.						

Photo 1 of 4 : SP\_2018\_NA0010\_124\_5\_20180420\_00185.jpg



Looking north at livestock erosion into landward shoulder. (Spring 2018)

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



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	24.58	Rating **	M	Issue No.	5 (cont)	
LM End	24.93	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.071198 °	°	
				-120.519220 °	°	
DWR ID	DWR_NA0010_06_s_2012_5					
Comment Code						
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.						
Inspector Comment						
Landside erosion caused by livestock extends into landward shoulder.						

LM Start	<b>24.58</b>	Rating **	M	Issue No.	<b>5 (cont)</b>
LM End	<b>24.93</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 4 : SP\_2018\_NA0010\_124\_5\_20180307\_00007.jpg



Looking north at livestock erosion on landward slope. (Spring 2015)

Photo 3 of 4 : SP\_2018\_NA0010\_124\_5\_20180307\_00008.jpg



Looking north at livestock erosion on landward slope. (Spring 2014)

LM Start	<b>24.58</b>	Rating **	M	Issue No.	<b>5 (cont)</b>
LM End	<b>24.93</b>	Issue Type +	Ma	Location *	LS

Photo 4 of 4 : SP\_2018\_NA0010\_124\_5\_20180307\_00009.jpg



Looking north at livestock erosion on landside slope. (Fall 2014)

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	26.13	Rating **	M	Issue No.	1208
LM End	26.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.054222 °	37.054222 °
				-120.500862 °	-120.500862 °
DWR ID	DWR_NA0010_06_s _ 2015_1208				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Noted several rodent holes next to and within rock revetment on landside slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_1208\_20180307\_00038.jpg



Rodent holes on landward slope.

LM Start	27.64	Rating **	M	Issue No.	3
LM End	27.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.036955 °	37.032887 °
				-120.484395 °	-120.481225 °
DWR ID	DWR_NA0010_06_s _ 2012_3				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Landside erosion caused by livestock. Erosion greater than 3" in depth on landside slope. Levee crown has narrowed within this reach.					

Photo 1 of 4 : SP\_2018\_NA0010\_124\_3\_20180307\_00003.jpg



Looking north at livestock erosion on landward slope. Fall 2015

LM Start	<b>27.64</b>	Rating **	M	Issue No.	<b>3 (cont)</b>
LM End	<b>27.97</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 4 : SP\_2018\_NA0010\_124\_3\_20180307\_00004.jpg



Looking north at livestock erosion on landward shoulder and slope.(Spring 2015)

* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	27.64	Rating **	M	Issue No.	3 (cont)	
LM End	27.97	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Slope Stability			37.036955 °	37.032887 °	
				-120.484395 °	-120.481225 °	
DWR ID	DWR_NA0010_06_s_2012_3					
Comment Code						
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.						
Inspector Comment						
Landside erosion caused by livestock. Erosion greater than 3" in depth on landside slope. Levee crown has narrowed within this reach.						

Photo 3 of 4 : SP\_2018\_NA0010\_124\_3\_20180307\_00005.jpg



Looking north at livestock erosion on landside shoulder and slope. (Fall 2014)

LM Start	<b>27.64</b>	Rating **	M	Issue No.	<b>3 (cont)</b>
LM End	<b>27.97</b>	Issue Type +	Ma	Location *	LS

Photo 4 of 4 : SP\_2018\_NA0010\_124\_3\_20180307\_00006.jpg



Looking north at livestock erosion on landward slope. (Spring 2013)

LM Start	28.47	Rating **	M	Issue No.	19
LM End	28.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.029937 °	37.030102 °
				-120.473384 °	-120.469122 °
DWR ID	DWR_NA0010_06_s_2015_19				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

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





**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	31.10	Rating **	U	Issue No.	2 (cont)	
LM End	31.10	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.017955 °		37.017955 °
				-120.435017 °		-120.435017 °
DWR ID	DWR_NA0010_06_s_2012_2					
Comment Code						
A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment						

Photo 2 of 2 : SP\_2018\_NA0010\_124\_2\_20180307\_00002.jpg



Looking at typical rodent hole on landside slope.

LM Start	31.14	Rating **	U	Issue No.	82
LM End	31.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.017445 °	37.017445 °
				-120.434713 °	-120.434713 °
DWR ID	DWR_NA0010_06_f_2017_82				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_82\_20180307\_00033.jpg



Looking east at the waterside slope.

LM Start	32.00	Rating **	U	Issue No.	81
LM End	32.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.007007 °	37.007007 °
				-120.426179 °	-120.426179 °
DWR ID	DWR_NA0010_06_f_2017_81				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_81\_20180307\_00032.jpg



Looking west at the landside slope.

\* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.47	04/03/2018 04/17/2018	Richard Willoughby

LM Start	35.85	Rating **	M	Issue No.	77
LM End	35.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			36.974397 °	36.974397 °
				-120.374415 °	-120.374415 °
DWR ID	DWR_NA0010_06_f_2017_77				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Landowner installed a raincoat on landside levee at location of temporary pipe. Need to assess landside slope to determine/repair any possible damage.					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_77\_20180307\_00029.jpg



Looking southwest at the landside slope.

LM Start	36.28	Rating **	A/W	Issue No.	74
LM End	36.39	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.974411 °	36.974422 °
				-120.366674 °	-120.364632 °
DWR ID	DWR_NA0010_06_f_2017_74				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_124\_74\_20180307\_00025.jpg



Looking west at the levee crown.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>19</b>
LM End	<b>3.61</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.255590 °		°
			-120.772353 °		°
DWR ID	DWR_NA0010_07_s _ 2018_19				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>18</b>
LM End	<b>3.61</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.255591 °	37.254796 °	
			-120.772353 °	-120.719636 °	
DWR ID	DWR_NA0010_07_s _ 2018_18				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.07	Rating **	M	Issue No.	30
LM End	0.07	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.255897 °	37.255897 °
				-120.771127 °	-120.771127 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:49966  
DS\_ID:19892  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 07/20/2016 Inlet blocked off by wooden board. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along WS and LS. Crossing downgraded from Urgent to Non-Urgent. (DWR UCIP - omagana)04/15/2014 Flapgate partially blocked by soil buildup at WS toe. (DWR UCIP - omagana)  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.07)].  
FS Date: 7/20/2016

LM Start	<b>0.07</b>	Rating **	M	Issue No.	<b>30 (cont)</b>
LM End	<b>0.07</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_49966\_60954.jpg



Pipe and headwall at WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_49966\_60955.jpg



Pipe, headwall, and flapgate at WS toe. Soil buildup partially blocking flapgate.

* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.07	Rating **	M	Issue No.	30 (cont)	
LM End	0.07	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.255897 °	37.255897 °	
				-120.771127 °	-120.771127 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:49966 DS_ID:19892 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 07/20/2016 Inlet blocked off by wooden board. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along WS and LS. Crossing downgraded from Urgent to Non-Urgent. (DWR UCIP - omagana)04/15/2014 Flapgate partially blocked by soil buildup at WS toe. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.8 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.07)]. FS Date: 7/20/2016						

Photo 3 of 3 : UCIP\_SP\_2018\_49966\_60953.jpg



Pipe and headwall at LS toe.

LM Start	0.24	Rating **	M	Issue No.	29
LM End	0.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.256936 °	37.258722 °
				-120.768472 °	-120.764867 °
DWR ID	DWR_NA0010_07_s_2012_29				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes noted on landside and waterside slope and shoulder.					

Photo 1 of 2 : SP\_2018\_NA0010\_125\_29\_20180307\_00008.jpg



Looking north at landside slope.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.24	Rating **	M	Issue No.	29 (cont)	
LM End	0.50	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.256936 °		37.258722 °
				-120.768472 °		-120.764867 °
DWR ID	DWR_NA0010_07_s_2012_29					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
Several rodent holes noted on landside and waterside slope and shoulder.						

Photo 2 of 2 : SP\_2018\_NA0010\_125\_29\_20180307\_00009.jpg



Looking at typical view of rodent holes on landward slope.

LM Start	0.33	Rating **	A/W	Issue No.	31
LM End	0.33	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.257691 °	37.257691 °
				-120.767203 °	-120.767203 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33712 DS_ID:19893 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.33)]. FS Date: 4/15/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33712\_60958.jpg



Pipe and headwall on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.33	Rating **	A/W	Issue No.	31 (cont)
LM End	0.33	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.257691 °	37.257691 °
				-120.767203 °	-120.767203 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33712					
DS_ID:19893					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through the levee, 11.1 feet below the crown. Flap gate on the					
waterside (WS) end. Concrete headwall on the landside (LS) end.					
Concrete U-shaped headwall on the WS end. [Additional Reference(s):					
DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967,					
(HLM 0.33)].					
FS Date: 4/15/2014					

LM Start	<b>0.33</b>	Rating **	A/W	Issue No.	<b>31 (cont)</b>
LM End	<b>0.33</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33712\_60957.jpg



Pipe, headwall, and flapgate on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_33712\_60959.jpg



Pipe and headwall on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.49	Rating **	M	Issue No.	32
LM End	0.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.258543 °	37.258543 °
				-120.764728 °	-120.764728 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:33713  
DS\_ID:19894  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Slide gate not operable, but left in closed position.  
Need to reinstall covers over slide gate standpipe.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 9.7 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the landside (LS) slope. Concrete U-shaped headwall on the LS end. Inlet channel cobble revetted. Dilapidated wooden pier on the waterside (WS). WS slope and outlet ditch cobble revetted. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.49)].  
FS Date: 4/15/2014

LM Start	<b>0.49</b>	Rating **	M	Issue No.	<b>32 (cont)</b>
LM End	<b>0.49</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_33713\_60963.jpg



Slide gate in CMP riser on WS slope.

Photo 2 of 3 : UCIP\_SP\_2018\_33713\_60965.jpg



Outlet on WS slope.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.49	Rating **	M	Issue No.	32 (cont)	
LM End	0.49	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.258543 °	37.258543 °	
				-120.764728 °	-120.764728 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33713						
DS_ID:19894						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Slide gate not operable, but left in closed position.						
Need to reinstall covers over slide gate standpipe.						
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe						
through the levee, 9.7 feet below the crown. Slide gate in a 48-inch						
corrugated metal pipe (CMP) riser on the landside (LS) slope. Concrete						
U-shaped headwall on the LS end. Inlet channel cobble revetted.						
Dilapidated wooden pier on the waterside (WS). WS slope and outlet						
ditch cobble revetted. [Additional Reference(s): DWR Levee Log, 2002.						
USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.49)].						
FS Date: 4/15/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33713\_60964.jpg



Pipe and headwall on LS toe.

LM Start	0.53	Rating **	A/W	Issue No.	33
LM End	0.53	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.259163 °	37.259163 °
				-120.764860 °	-120.764860 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33723 DS_ID:19895 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall with a wooden weir at the inlet on the landside (LS) toe. Concrete U-shaped headwall on the WS toe. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.53)]. FS Date: 4/15/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33723\_60981.jpg



Headwall and flapgate on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.53	Rating **	A/W	Issue No.	33 (cont)	
LM End	0.53	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.259163 °	37.259163 °	
				-120.764860 °	-120.764860 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33723 DS_ID:19895 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall with a wooden weir at the inlet on the landside (LS) toe. Concrete U-shaped headwall on the WS toe. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.53)]. FS Date: 4/15/2014						

LM Start	<b>0.53</b>	Rating **	A/W	Issue No.	<b>33 (cont)</b>
LM End	<b>0.53</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33723\_60983.jpg



Flapgate on concrete headwall at WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_33723\_60982.jpg



Headwall, pipe, and wier on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.85	Rating **	M	Issue No.	34
LM End	0.85	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.262981 °	37.262981 °
				-120.761703 °	-120.761703 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39507  
DS\_ID:19896  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Need to contact owner. Heavy sediment buildup at inlet due to animal activity should be cleared.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Wooden weir on concrete headwall at the landside (LS) toe. 36-inch concrete riser at the LS toe. Concrete U-shaped headwall on the WS end. Concrete standpipe on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.85)].  
FS Date: 4/15/2014

LM Start	<b>0.85</b>	Rating **	M	Issue No.	<b>34 (cont)</b>
LM End	<b>0.85</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39507\_60986.jpg



Headwall and flapgate on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39507\_60988.jpg



Headwall and flapgate on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.85	Rating **	M	Issue No.	34 (cont)	
LM End	0.85	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.262981 °		37.262981 °
				-120.761703 °		-120.761703 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39507						
DS_ID:19896						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner. Heavy sediment buildup at inlet due to animal activity should be cleared.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.8 feet below the crown. Flap gate on the waterside (WS) end. Wooden weir on concrete headwall at the landside (LS) toe. 36-inch concrete riser at the LS toe. Concrete U-shaped headwall on the WS end. Concrete standpipe on the LS. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.85)].						
FS Date: 4/15/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39507\_60987.jpg



Concrete riser, concrete headwall, weir, and pipe at LS toe.

LM Start	0.94	Rating **	A/W	Issue No.	35
LM End	0.94	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.263950 °	37.263950 °
				-120.760572 °	-120.760572 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33725 DS_ID:19897 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.94)]. FS Date: 4/15/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33725\_60991.jpg



Concrete headwall and flapgate at WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.94	Rating **	A/W	Issue No.	35 (cont)	
LM End	0.94	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.263950 °		37.263950 °
				-120.760572 °		-120.760572 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33725 DS_ID:19897 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.94)]. FS Date: 4/15/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_33725\_60993.jpg



Concrete headwall and flapgate at WS toe.

LM Start	<b>0.94</b>	Rating **	A/W	Issue No.	<b>35 (cont)</b>
LM End	<b>0.94</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_33725\_60992.jpg



Concrete headwall and pipe on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	1.17	Rating **	A/W	Issue No.	36
LM End	1.17	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.264421 °	37.264421 °
				-120.756683 °	-120.756683 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33726					
DS_ID:19898					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 48-inch corrugated metal gravity drainage pipe					
through the levee, 14.6 feet below the crown. Flap gate on the					
waterside (WS) end. Concrete U-shaped headwall on each end.					
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin					
O&M Manual 601.1, 1967, (HLM 1.17)].					
FS Date: 4/15/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33726\_60996.jpg



Pipe, flapgate, and headwall on WS toe.

LM Start	1.17	Rating **	A/W	Issue No.	36 (cont)
LM End	1.17	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33726\_60995.jpg



Flapgate at headwall on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	1.17	Rating **	A/W	Issue No.	36 (cont)	
LM End	1.17	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.264421 °	37.264421 °	
				-120.756683 °	-120.756683 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33726						
DS_ID:19898						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 48-inch corrugated metal gravity drainage pipe						
through the levee, 14.6 feet below the crown. Flap gate on the						
waterside (WS) end. Concrete U-shaped headwall on each end.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin						
O&M Manual 601.1, 1967, (HLM 1.17)].						
FS Date: 4/15/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33726\_60997.jpg



Pipe and headwall on LS toe.

LM Start	1.22	Rating **	M	Issue No.	1
LM End	1.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.264387 °	37.264387 °
				-120.755805 °	-120.755805 °
DWR ID	DWR_NA0010_07_f_2012_1				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : SP\_2018\_NA0010\_125\_1\_20180307\_00001.jpg



Looking north at several rodent holes on landward slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	1.22	Rating **	M	Issue No.	1 (cont)	
LM End	1.22	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.264387 °		37.264387 °
				-120.755805 °		-120.755805 °
DWR ID	DWR_NA0010_07_f_2012_1					
Comment Code						
A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment						

Photo 2 of 2 : SP\_2018\_NA0010\_125\_1\_20180307\_00002.jpg



Looking at east at active rodent holes on landside berm.

LM Start	1.49	Rating **	M	Issue No.	16
LM End	1.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.263999 °	37.263999 °
				-120.750854 °	-120.750854 °
DWR ID	DWR_NA0010_07_f_2017_16				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Repair slope damaged by animal traffic.					

Photo 1 of 1 : SP\_2018\_NA0010\_125\_16\_20180307\_00006.jpg



Looking east at landside slope.

LM Start	1.50	Rating **	M	Issue No.	6
LM End	1.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.263955 °	37.263885 °
				-120.750751 °	-120.750527 °
DWR ID	DWR_NA0010_07_s_2014_6				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : SP\_2018\_NA0010\_125\_6\_20180411\_00043.jpg



Looking at typical view of rodent holes within this section. (Spring 2018)

**\* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	1.50	Rating **	M	Issue No.	6 (cont)	
LM End	1.51	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.263955 °		37.263885 °
				-120.750751 °		-120.750527 °
DWR ID	DWR_NA0010_07_s_2014_6					
Comment Code						
A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment						

Photo 2 of 2 : SP\_2018\_NA0010\_125\_6\_20180307\_00003.jpg



Looking northwest at landside slope.

LM Start	1.50	Rating **	A/W	Issue No.	37
LM End	1.50	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.263917 °	37.263917 °
				-120.750694 °	-120.750694 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33727					
DS_ID:19902					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through the levee, 14 feet below the crown. Flap gate on the waterside					
(WS) end. Concrete U-shaped headwall on each end. [Additional					
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M					
Manual 601.1, 1967, (HLM 1.51)].					
FS Date: 4/15/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33727\_61001.jpg



Pipe, headwall and flapgate on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	1.50	Rating **	A/W	Issue No.	37 (cont)	
LM End	1.50	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.263917 °	37.263917 °	
				-120.750694 °	-120.750694 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33727						
DS_ID:19902						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 14 feet below the crown. Flap gate on the waterside						
(WS) end. Concrete U-shaped headwall on each end. [Additional						
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M						
Manual 601.1, 1967, (HLM 1.51)].						
FS Date: 4/15/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_33727\_61003.jpg



Pipe, headwall and flapgate on WS toe.

LM Start	<b>1.50</b>	Rating **	A/W	Issue No.	<b>37 (cont)</b>
LM End	<b>1.50</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_33727\_61002.jpg



Headwall and pipe on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	1.71	Rating **	M	Issue No.	5
LM End	1.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.262570 °	37.262467 °
				-120.747453 °	-120.747180 °
DWR ID	DWR_NA0010_07_s_2013_5				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	2.09	Rating **	M	Issue No.	12
LM End	2.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.259187 °	37.259187 °
				-120.742551 °	-120.742551 °
DWR ID	DWR_NA0010_07_f_2014_12				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent activity noted next to fence post.					

Photo 1 of 2 : SP\_2018\_NA0010\_125\_12\_20180307\_00004.jpg



Looking east at rodent hole next to fence post on landward shoulder.

LM Start	<b>2.09</b>	Rating **	M	Issue No.	<b>12 (cont)</b>
LM End	<b>2.09</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2018\_NA0010\_125\_12\_20180307\_00005.jpg



Looking at rodent activity next to fence post

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	2.12	Rating **	M	Issue No.	17
LM End	2.18	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.259007 °	37.258726 °
				-120.742050 °	-120.741118 °
DWR ID	DWR_NA0010_07_f_2017_17				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_125\_17\_20180307\_00007.jpg



Looking southeast at the crown.

LM Start	2.48	Rating **	A/W	Issue No.	38
LM End	2.48	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.255803 °	37.255803 °
				-120.737246 °	-120.737246 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33728					
DS_ID:19899					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.48)].					
FS Date: 4/15/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33728\_61006.jpg



Headwall and flapgate on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	2.48	Rating **	A/W	Issue No.	38 (cont)
LM End	2.48	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.255803 °	37.255803 °
				-120.737246 °	-120.737246 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:33728  
DS\_ID:19899  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments:  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.48)].  
FS Date: 4/15/2014

LM Start	<b>2.48</b>	Rating **	A/W	Issue No.	<b>38 (cont)</b>
LM End	<b>2.48</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33728\_61008.jpg



Concrete headwall and flapgate at WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_33728\_61007.jpg



Concrete headwall and pipe on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	2.63	Rating **	A/W	Issue No.	39 (cont)	
LM End	2.63	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.254832 °	37.254832 °	
				-120.734918 °	-120.734918 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33729 DS_ID:19900 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.64)]. FS Date: 4/15/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33729\_61012.jpg



Concrete headwall and pipe at LS toe.

LM Start	3.09	Rating **	M	Issue No.	40	
LM End	3.09	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.251883 °		37.251883 °
				-120.728264 °		-120.728264 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39508 DS_ID:19901 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some sediment buildup at landward toe and inside pipe--recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.09)]. FS Date: 4/15/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39508\_61016.jpg



Headwall, pipe, and flapgate on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	04/04/2018 04/04/2018	Richard Willoughby

LM Start	3.09	Rating **	M	Issue No.	40 (cont)	
LM End	3.09	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.251883 °	37.251883 °	
				-120.728264 °	-120.728264 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39508 DS_ID:19901 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some sediment buildup at landward toe and inside pipe--recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.09)]. FS Date: 4/15/2014						

LM Start	<b>3.09</b>	Rating **	M	Issue No.	<b>40 (cont)</b>
LM End	<b>3.09</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39508\_61015.jpg



Headwall, pipe, and flapgate on WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39508\_61017.jpg



Headwall and pipe on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	20
LM End	3.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.253103 °	37.254137 °
				-120.768464 °	-120.718851 °
DWR ID	DWR_NA0010_08_s_2018_20				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

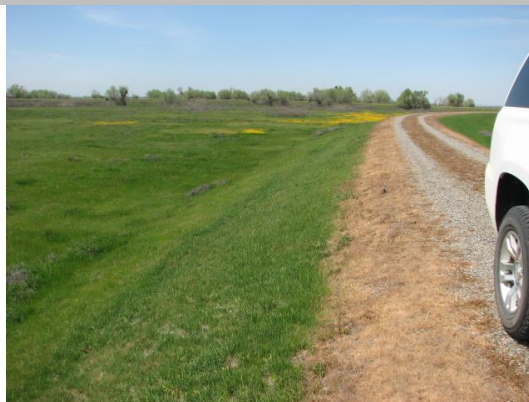
Photo 1 of 1 : SP\_2018\_NA0010\_126\_20\_20180411\_00043.jpg



Looking east at typical view of landward slope. (Spring 2018)

LM Start	0.00	Rating **	M	Issue No.	21
LM End	3.63	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.253104 °	37.254136 °
				-120.768464 °	-120.718851 °
DWR ID	DWR_NA0010_08_s_2018_21				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_126\_21\_20180411\_00044.jpg



Looking west at typical view of waterward slope. (Spring 2018)

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.23	Rating **	A/W	Issue No.	22
LM End	0.23	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.256092 °	37.256092 °
				-120.767873 °	-120.767873 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:33751  
DS\_ID:19903  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments:  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.23)].  
FS Date: 4/16/2014

LM Start	<b>0.23</b>	Rating **	A/W	Issue No.	<b>22 (cont)</b>
LM End	<b>0.23</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_33751\_61068.jpg



Headwall and flapgate on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_33751\_61067.jpg



Headwall and flapgate on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.23	Rating **	A/W	Issue No.	22 (cont)	
LM End	0.23	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.256092 °	37.256092 °	
				-120.767873 °	-120.767873 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33751						
DS_ID:19903						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 9.6 feet below the crown. Flap gate on the waterside						
(WS) end. Concrete headwall on the landside (LS) end. Concrete U-						
shaped headwall on the WS end. [Additional Reference(s): DWR Levee						
Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.23)].						
FS Date: 4/16/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33751\_61069.jpg



Concrete headwall on LS toe.

LM Start	0.43	Rating **	M	Issue No.	15
LM End	0.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.257019 °	37.257019 °
				-120.764488 °	-120.764488 °
DWR ID	DWR_NA0010_08_s _ 2016_15				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.57	Rating **	A/W	Issue No.	23
LM End	0.57	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.258604 °	37.258604 °
				-120.763588 °	-120.763588 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33752 DS_ID:19904 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.57)]. FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33752\_61073.jpg



Pipe, flapgate and headwall on WS toe.

LM Start	<b>0.57</b>	Rating **	A/W	Issue No.	<b>23 (cont)</b>
LM End	<b>0.57</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33752\_61072.jpg



Pipe, flapgate and headwall on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.57	Rating **	A/W	Issue No.	23 (cont)	
LM End	0.57	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.258604 °	37.258604 °	
				-120.763588 °	-120.763588 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33752						
DS_ID:19904						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 12.4 feet below the crown. Flap gate on the						
waterside (WS) end. Concrete headwall on each end. [Additional						
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M						
Manual 601.1, 1967, (HLM 0.57)].						
FS Date: 4/16/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_33752\_61074.jpg



Pipe and headwall on LS toe.

LM Start	0.72	Rating **	A/W	Issue No.	24
LM End	0.72	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.260306 °	37.260306 °
				-120.762127 °	-120.762127 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33753 DS_ID:19905 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.72)]. FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33753\_61078.jpg



Headwall and flapgate at WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.72	Rating **	A/W	Issue No.	24 (cont)	
LM End	0.72	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.260306 °	37.260306 °	
				-120.762127 °	-120.762127 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33753 DS_ID:19905 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.72)]. FS Date: 4/16/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_33753\_61080.jpg



Headwall and flapgate at WS toe.

LM Start	<b>0.72</b>	Rating **	A/W	Issue No.	<b>24 (cont)</b>
LM End	<b>0.72</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_33753\_61079.jpg



Concrete headwall on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.90	Rating **	M	Issue No.	25
LM End	0.90	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.262384 °	37.262384 °
				-120.760528 °	-120.760528 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39887					
DS_ID:19832					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Some sediment buildup at inlet on LS toe.					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through the levee, 11.5 feet below the crown. Flap gate on the					
waterside (WS) end. Concrete headwall on each end. [Additional					
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M					
Manual 601.1, 1967, (HLM 0.89)].					
FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39887\_61084.jpg



Headwall, pipe, and flapgate on WS toe.

LM Start	<b>0.90</b>	Rating **	M	Issue No.	<b>25 (cont)</b>
LM End	<b>0.90</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39887\_61083.jpg



Headwall, pipe, and flapgate on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.90	Rating **	M	Issue No.	25 (cont)	
LM End	0.90	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.262384 °	37.262384 °	
				-120.760528 °	-120.760528 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39887						
DS_ID:19832						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Some sediment buildup at inlet on LS toe.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 11.5 feet below the crown. Flap gate on the						
waterside (WS) end. Concrete headwall on each end. [Additional						
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M						
Manual 601.1, 1967, (HLM 0.89)].						
FS Date: 4/16/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39887\_61085.jpg



Pipe and headwall on LS toe.

LM Start	1.16	Rating **	A/W	Issue No.	5
LM End	3.18	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.263243 °	37.251737 °
				-120.756372 °	-120.726246 °
DWR ID	DWR_NA0010_08_s_2016_5				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Depression noted on levee crown.					

Photo 1 of 1 : SP\_2018\_NA0010\_126\_5\_20180307\_00004.jpg



Looking west at depression on toward landward shoulder.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	1.20	Rating **	M	Issue No.	2
LM End	1.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.263182 °	37.263183 °
				-120.755650 °	-120.755637 °
DWR ID	DWR_NA0010_08_s_2012_2				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_126\_2\_20180307\_00001.jpg



Looking south at the landside shoulder.

LM Start	1.21	Rating **	M	Issue No.	26
LM End	1.21	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.263188 °	37.263188 °
				-120.755399 °	-120.755399 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39509 DS_ID:19833 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Debris blocking landward headwall--recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.21)]. FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39509\_61090.jpg



Concrete headwall, pipe, and flapgate on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	1.21	Rating **	M	Issue No.	26 (cont)
LM End	1.21	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.263188 °	37.263188 °
				-120.755399 °	-120.755399 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39509					
DS_ID:19833					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Debris blocking landward headwall--recommend clearing.					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.21)].					
FS Date: 4/16/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_39509\_61091.jpg



Concrete headwall, pipe, and flapgate on WS toe.

LM Start	1.21	Rating **	M	Issue No.	26 (cont)
LM End	1.21	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39509\_61089.jpg



Pipe and headwall on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	1.38	Rating **	M	Issue No.	8
LM End	1.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.263175 °	37.263175 °
				-120.752307 °	-120.752307 °
DWR ID	DWR_NA0010_08_s_2013_8				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_126\_8\_20180307\_00006.jpg



Looking west at rodent holes on landward slope.

LM Start	1.38	Rating **	M	Issue No.	27
LM End	1.38	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.263194 °	37.263194 °
				-120.752299 °	-120.752299 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39510 DS_ID:19834 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Animal burrows along pipe alignment on LS. Some sediment buildup at LS toe and inside pipe--recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.38)]. FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39510\_61094.jpg



Pipe, headwall, and flapgate on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	1.38	Rating **	M	Issue No.	27 (cont)
LM End	1.38	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.263194 °	37.263194 °
				-120.752299 °	-120.752299 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39510 DS_ID:19834 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Animal burrows along pipe alignment on LS. Some sediment buildup at LS toe and inside pipe--recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.38)]. FS Date: 4/16/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_39510\_61093.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	<b>1.38</b>	Rating **	M	Issue No.	<b>27 (cont)</b>
LM End	<b>1.38</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39510\_61095.jpg



Animal burrows along alignment on LS slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	1.61	Rating **	M	Issue No.	1
LM End	1.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.261842 °	37.261842 °
				-120.748510 °	-120.748510 °
DWR ID	DWR_NA0010_08_s_2012_1				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	2.05	Rating **	M	Issue No.	28	
LM End	2.05	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.258220 °		37.258220 °
				-120.742868 °		-120.742868 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39511 DS_ID:19835 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Non-functional landward inlet is buried in sediment. Need to contact owner to determine status. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.05)]. FS Date: 4/16/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39511\_61098.jpg



Pipe, headwall, and flapgate on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	2.05	Rating **	M	Issue No.	28 (cont)
LM End	2.05	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.258220 °	37.258220 °
				-120.742868 °	-120.742868 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39511 DS_ID:19835 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Non-functional landward inlet is buried in sediment. Need to contact owner to determine status. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.05)]. FS Date: 4/16/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_39511\_61099.jpg



Pipe and headwall buried in sediment at LS toe.

LM Start	<b>2.05</b>	Rating **	M	Issue No.	<b>28 (cont)</b>
LM End	<b>2.05</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39511\_61097.jpg



Pipe and headwall buried in sediment at LS toe.

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

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

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



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	2.12	Rating **	M	Issue No.	29
LM End	2.12	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.257800 °	37.257800 °
				-120.741604 °	-120.741604 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39512					
DS_ID:19836					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Sediment buildup in pipe visible from landward side.					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through the levee, 9.5 feet below the crown. Flap gate on the waterside					
(WS) end. Concrete headwall on each end. [Additional Reference(s):					
DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967,					
(HLM 2.12)].					
FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39512\_61102.jpg



Pipe, headwall, and flapgate on WS toe.

LM Start	<b>2.12</b>	Rating **	M	Issue No.	<b>29 (cont)</b>
LM End	<b>2.12</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39512\_61100.jpg



Pipe, headwall, and flapgate on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	2.12	Rating **	M	Issue No.	29 (cont)	
LM End	2.12	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.257800 °	37.257800 °	
				-120.741604 °	-120.741604 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39512						
DS_ID:19836						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Sediment buildup in pipe visible from landward side.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 9.5 feet below the crown. Flap gate on the waterside						
(WS) end. Concrete headwall on each end. [Additional Reference(s):						
DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967,						
(HLM 2.12)].						
FS Date: 4/16/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39512\_61101.jpg



Pipe and headwall on LS toe.

LM Start	2.77	Rating **	A/W	Issue No.	30
LM End	2.77	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.252228 °	37.252228 °
				-120.732890 °	-120.732890 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33760					
DS_ID:19837					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe					
through the levee, 10.5 feet below the crown. Flap gate on the					
waterside (WS) end. Concrete headwall on each end. [Additional					
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M					
Manual 601.1, 1967, (HLM 2.77)].					
FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33760\_61107.jpg



Pipe, headwall, and flapgate on Ws toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	2.77	Rating **	A/W	Issue No.	30 (cont)	
LM End	2.77	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.252228 °		37.252228 °
				-120.732890 °		-120.732890 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33760						
DS_ID:19837						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe						
through the levee, 10.5 feet below the crown. Flap gate on the						
waterside (WS) end. Concrete headwall on each end. [Additional						
Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M						
Manual 601.1, 1967, (HLM 2.77)].						
FS Date: 4/16/2014						

LM Start	<b>2.77</b>	Rating **	A/W	Issue No.	<b>30 (cont)</b>
LM End	<b>2.77</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_33760\_61105.jpg



Pipe, headwall, and flapgate on Ws toe.

Photo 3 of 3 : UCIP\_SP\_2018\_33760\_61106.jpg



Pipe and headwall on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	3.06	Rating **	M	Issue No.	31 (cont)
LM End	3.06	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.250864 °	37.250864 °
				-120.728151 °	-120.728151 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:49969 DS_ID:19838 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/20/2016 LS inlet buried under dense vegetation. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the WS and LS slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - omagana)4/16/2014 Pipe blocked by silt on LS toe. Flapgate rusty and does not operate correctly. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 13.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.06)]. FS Date: 7/20/2016					

Photo 3 of 3 : UCIP\_SP\_2018\_49969\_61111.jpg



Pipe and headwall on LS toe.

LM Start	3.24	Rating **	A/W	Issue No.	32
LM End	3.24	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.252230 °	37.252230 °
				-120.725504 °	-120.725504 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33764 DS_ID:19839 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.24)]. FS Date: 4/16/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_33764\_61128.jpg



Pipe, flapgate, and headwall on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	3.24	Rating **	A/W	Issue No.	32 (cont)	
LM End	3.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.252230 °	37.252230 °	
				-120.725504 °	-120.725504 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:33764 DS_ID:19839 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.24)]. FS Date: 4/16/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_33764\_61127.jpg



Pipe, flapgate, and headwall on WS toe.

LM Start	<b>3.24</b>	Rating **	A/W	Issue No.	<b>32 (cont)</b>
LM End	<b>3.24</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_33764\_61129.jpg



Pipe and headwall on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	3.40	Rating **	M	Issue No.	3
LM End	3.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.253052 °	37.253600 °
				-120.722647 °	-120.720198 °
DWR ID	DWR_NA0010_08_s_2012_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Noted several rodent holes on landside slope within this reach.					

LM Start	<b>3.40</b>	Rating **	M	Issue No.	<b>3 (cont)</b>
LM End	<b>3.54</b>	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP\_2018\_NA0010\_126\_3\_20180307\_00002.jpg



Looking east at the crown towards the landside.

Photo 2 of 2 : SP\_2018\_NA0010\_126\_3\_20180307\_00003.jpg



Looking at typical view of rodent holes on landward slope.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	3.43	Rating **	M	Issue No.	33
LM End	3.43	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.253151 °	37.253151 °
				-120.722182 °	-120.722182 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39513 DS_ID:19840 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No access available on landward side. Need to confirm status of crossing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.43)]. FS Date: 4/16/2014					

LM Start	<b>3.43</b>	Rating **	M	Issue No.	<b>33 (cont)</b>
LM End	<b>3.43</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39513\_61134.jpg



Pipe, headwall, and flapgate on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39513\_61133.jpg



Pipe, headwall, and flapgate on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	04/04/2018 04/04/2018	Richard Willoughby

LM Start	3.43	Rating **	M	Issue No.	33 (cont)	
LM End	3.43	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.253151 °		37.253151 °
				-120.722182 °		-120.722182 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39513 DS_ID:19840 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No access available on landward side. Need to confirm status of crossing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.43)]. FS Date: 4/16/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39513\_61132.jpg



Pipe likely at drainage swale off LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.87	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.47	Rating **	M	Issue No.	7 (cont)	
LM End	0.47	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.220416 °	37.220416 °	
				-120.705248 °	-120.705248 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39888						
DS_ID:19841						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Concrete headwalls on landward and waterward under water. Need photo to confirm condition of concrete headwalls, pipe, and gate on both toes.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 18.7 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope.						
Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.47)].						
FS Date: 4/22/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39888\_62118.jpg



Concrete headwall visible at inlet on LS toe.

LM Start	0.69	Rating **	M	Issue No.	8
LM End	0.69	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.219874 °	37.219874 °
				-120.701438 °	-120.701438 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39515 DS_ID:19842 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Animal burrows in area on LS slope. Minor sediment buildup in pipe visible on landward side--recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.70)]. FS Date: 4/22/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39515\_62128.jpg



Headwall, flapgate, and pipe on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.87	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.69	Rating **	M	Issue No.	8 (cont)	
LM End	0.69	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.219874 °		37.219874 °
				-120.701438 °		-120.701438 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39515						
DS_ID:19842						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Animal burrows in area on LS slope. Minor sediment buildup in pipe visible on landward side--recommend clearing.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 8.7 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.70)].						
FS Date: 4/22/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39515\_62132.jpg



Headwall, flapgate, and pipe on WS toe.

LM Start	<b>0.69</b>	Rating **	M	Issue No.	<b>8 (cont)</b>
LM End	<b>0.69</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39515\_62129.jpg



Headwall and pipe on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.87	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.87	Rating **	A/W	Issue No.	9 (cont)	
LM End	0.87	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.220051 °	37.220051 °	
				-120.698374 °	-120.698374 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34186 DS_ID:19843 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9.7 feet below the crown. Two slide gates in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on the landside (LS) end. WS end cobble revetted on the bank and in the outlet drain. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.87)]. FS Date: 4/22/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_34186\_62133.jpg



Inside CMP riser on WS slope.

LM Start	<b>0.87</b>	Rating **	A/W	Issue No.	<b>9 (cont)</b>
LM End	<b>0.87</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_34186\_62137.jpg



Outlet at WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass	Left	0.80	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	3
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.217893 °	37.219331 °
				-120.711456 °	-120.698171 °
DWR ID	DWR_NA0010_10_s _ 2018_3				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
LMA to maintain vegetation on LS slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_128\_3\_20180411\_00005.jpg



Looking upstream at typical view of landward slope. (Spring 2018)

LM Start	0.00	Rating **	M	Issue No.	4
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.217893 °	37.219335 °
				-120.711456 °	-120.698172 °
DWR ID	DWR_NA0010_10_s _ 2018_4				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
LMA to maintain vegetation on WS slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_128\_4\_20180411\_00006.jpg



Looking northeast at typical view of waterward slope. (Spring 2018)

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass	Left	0.80	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.30	Rating **	M	Issue No.	5	
LM End	0.30	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.219116 °		37.219116 °
				-120.706652 °		-120.706652 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39516 DS_ID:19845 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Inlet blocked at LS toe by wooden gate. Need to contact owner to determine status. FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 19.6 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.31)]. FS Date: 4/22/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39516\_62144.jpg



Headwall and pipe visible on LS toe. Slide gate inside 48-inch CMP riser on WS slope.

LM Start	<b>0.30</b>	Rating **	M	Issue No.	<b>5 (cont)</b>
LM End	<b>0.30</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39516\_62146.jpg



Headwall and pipe on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass	Left	0.80	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.30	Rating **	M	Issue No.	5 (cont)	
LM End	0.30	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.219116 °		37.219116 °
				-120.706652 °		-120.706652 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39516 DS_ID:19845 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Inlet blocked at LS toe by wooden gate. Need to contact owner to determine status. FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 19.6 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.31)]. FS Date: 4/22/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39516\_62145.jpg



Headwall and pipe on LS toe. Pipe blocked by wooden cover.

LM Start	0.32	Rating **	A/W	Issue No.	2
LM End	0.32	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.219192 °	37.219192 °
				-120.706295 °	-120.706295 °
DWR ID	DWR_NA0010_10_f_2017_2				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_128\_2\_20180307\_00001.jpg



Looking west at the crown.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	10
LM End	3.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.202749 °	37.202321 °
				-120.755184 °	-120.695304 °
DWR ID	DWR_NA0010_11_s_2018_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_129\_10\_20180420\_00024.jpg



Looking south at typical view of landward slope. (Spring 2018)

LM Start	0.00	Rating **	M	Issue No.	11
LM End	3.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.202749 °	37.202321 °
				-120.755184 °	-120.695304 °
DWR ID	DWR_NA0010_11_s_2018_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_129\_11\_20180420\_00023.jpg



Looking south at typical view of waterward slope. (Spring 2018)

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.42	Rating **	M	Issue No.	12
LM End	0.42	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.202754 °	37.202754 °
				-120.747689 °	-120.747689 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39517 DS_ID:19846 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.42)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39517\_66644.jpg



View of slide gate inside CMP riser located on waterward slope.

LM Start	<b>0.42</b>	Rating **	M	Issue No.	<b>12 (cont)</b>
LM End	<b>0.42</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39517\_66643.jpg



View of levee crown at crossing.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.42	Rating **	M	Issue No.	12 (cont)	
LM End	0.42	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.202754 °		37.202754 °
				-120.747689 °		-120.747689 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39517 DS_ID:19846 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.42)]. FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39517\_66642.jpg



View of landward side.

LM Start	0.65	Rating **	M	Issue No.	13
LM End	0.65	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.202751 °	37.202751 °
				-120.743474 °	-120.743474 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39518					
DS_ID:19847					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.65)].					
FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39518\_61997.jpg



View of waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.65	Rating **	M	Issue No.	13 (cont)
LM End	0.65	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.202751 °	37.202751 °
				-120.743474 °	-120.743474 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39518 DS_ID:19847 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.65)]. FS Date: 4/18/2014					

LM Start	<b>0.65</b>	Rating **	M	Issue No.	<b>13 (cont)</b>
LM End	<b>0.65</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39518\_61996.jpg



View of landward side.

Photo 3 of 3 : UCIP\_SP\_2018\_39518\_61999.jpg



Flap gate and concrete apron located on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.84	Rating **	M	Issue No.	14
LM End	0.84	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.202745 °	37.202745 °
				-120.739935 °	-120.739935 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39519 DS_ID:19848 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.3 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.84)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39519\_62003.jpg



Overview of waterward side.

LM Start	<b>0.84</b>	Rating **	M	Issue No.	<b>14 (cont)</b>
LM End	<b>0.84</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39519\_62002.jpg



Concrete headwall and flap gate visible on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.84	Rating **	M	Issue No.	14 (cont)	
LM End	0.84	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.202745 °		37.202745 °
				-120.739935 °		-120.739935 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39519						
DS_ID:19848						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.3 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.84)].						
FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39519\_62001.jpg



View of landward side.

LM Start	1.13	Rating **	M	Issue No.	15	
LM End	1.13	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.202748 °		37.202748 °
				-120.734796 °		-120.734796 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39520 DS_ID:19849 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.13)]. FS Date: 4/18/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39520\_62008.jpg



View of waterward side--flap gate visible at levee toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.13	Rating **	M	Issue No.	15 (cont)
LM End	1.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.202748 °	37.202748 °
				-120.734796 °	-120.734796 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39520 DS_ID:19849 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.13)]. FS Date: 4/18/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_39520\_62007.jpg



View of landward side.

LM Start	1.13	Rating **	M	Issue No.	15 (cont)
LM End	1.13	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39520\_62006.jpg



Concrete headwall located on landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.49	Rating **	M	Issue No.	9
LM End	1.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.202748 °	37.202748 °
				-120.728182 °	-120.728182 °
DWR ID	DWR_NA0010_11_f_2017_9				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_129\_9\_20180307\_00001.jpg



Looking northwest at landside slope.

LM Start	1.49	Rating **	M	Issue No.	16
LM End	1.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.202753 °	37.202753 °
				-120.728133 °	-120.728133 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39521 DS_ID:19850 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe. FIELD_STRUCT_DESC: 48-inch corrugated metal gravity drainage pipe through the levee, 16.3 feet below the crown. Slide gate in a pipe riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.50)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39521\_62018.jpg



View of waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.49	Rating **	M	Issue No.	16 (cont)
LM End	1.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.202753 °	37.202753 °
				-120.728133 °	-120.728133 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39521 DS_ID:19850 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe. FIELD_STRUCT_DESC: 48-inch corrugated metal gravity drainage pipe through the levee, 16.3 feet below the crown. Slide gate in a pipe riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.50)]. FS Date: 4/18/2014					

LM Start	1.49	Rating **	M	Issue No.	16 (cont)
LM End	1.49	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39521\_62017.jpg



View of concrete headwall located on waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_39521\_62016.jpg



Inside view of pipe from waterward side--sediment build up.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.77	Rating **	M	Issue No.	1
LM End	1.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.202743 °	37.202743 °
				-120.723187 °	-120.723187 °
DWR ID	DWR_NA0010_11_s_2012_1				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.98	Rating **	M	Issue No.	17
LM End	1.98	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.202740 °	37.202740 °
				-120.719247 °	-120.719247 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39522					
DS_ID:19851					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.8 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.99)].					
FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39522\_62024.jpg



View of waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.98	Rating **	M	Issue No.	17 (cont)	
LM End	1.98	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.202740 °	37.202740 °	
				-120.719247 °	-120.719247 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39522						
DS_ID:19851						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.8 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.99)].						
FS Date: 4/18/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39522\_62025.jpg



Flap gate located on waterward side.

LM Start	<b>1.98</b>	Rating **	M	Issue No.	<b>17 (cont)</b>
LM End	<b>1.98</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39522\_62023.jpg



View of landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	3.04	Rating **	M	Issue No.	18
LM End	3.04	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.202494 °	37.202494 °
				-120.700153 °	-120.700153 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39523 DS_ID:19852 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.04)]. FS Date: 4/18/2014					

LM Start	<b>3.04</b>	Rating **	M	Issue No.	<b>18 (cont)</b>
LM End	<b>3.04</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39523\_62028.jpg



Overview of waterward side--flap gate, concrete headwall and apron visible on levee toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39523\_62027.jpg



View of landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	04/16/2018 04/16/2018	Richard Willoughby

LM Start	3.04	Rating **	M	Issue No.	18 (cont)
LM End	3.04	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.202494 °	37.202494 °
				-120.700153 °	-120.700153 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39523 DS_ID:19852 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.04)]. FS Date: 4/18/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39523\_62030.jpg



Concrete headwall located on landward side--debris in front of headwall.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	12
LM End	3.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.200959 °	37.200979 °
				-120.755286 °	-120.694899 °
DWR ID	DWR_NA0010_12_s_2018_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_130\_12\_20180420\_00025.jpg



Looking south at typical view of waterward slope. (Spring 2018)

LM Start	0.00	Rating **	M	Issue No.	11
LM End	3.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.200959 °	37.200981 °
				-120.755286 °	-120.694899 °
DWR ID	DWR_NA0010_12_s_2018_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_130\_11\_20180420\_00026.jpg



Looking south at typical view of landward slope. (Spring 2018)

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.40	Rating **	M	Issue No.	14
LM End	0.40	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.200934 °	37.200934 °
				-120.747996 °	-120.747996 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36704 DS_ID:19855 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.39)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36704\_66647.jpg



View of waterward side.

LM Start	<b>0.40</b>	Rating **	M	Issue No.	<b>14 (cont)</b>
LM End	<b>0.40</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36704\_66649.jpg



Concrete headwall and flap gate visible on waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.40	Rating **	M	Issue No.	14 (cont)	
LM End	0.40	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.200934 °	37.200934 °	
				-120.747996 °	-120.747996 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36704 DS_ID:19855 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.39)]. FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36704\_66648.jpg



View of waterward side--medium grass throughout slope.

LM Start	0.44	Rating **	M	Issue No.	13
LM End	3.33	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.200945 °	37.200981 °
				-120.747236 °	-120.694899 °
DWR ID	DWR_NA0010_12_s_2018_13				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.06	Rating **	M	Issue No.	15
LM End	1.06	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.200922 °	37.200922 °
				-120.736012 °	-120.736012 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39889 DS_ID:19856 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.06)]. FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39889\_62048.jpg



View of waterward side.

LM Start	<b>1.06</b>	Rating **	M	Issue No.	<b>15 (cont)</b>
LM End	<b>1.06</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39889\_62049.jpg



Concrete headwall and flap gate visible on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.06	Rating **	M	Issue No.	15 (cont)	
LM End	1.06	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.200922 °	37.200922 °	
				-120.736012 °	-120.736012 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39889						
DS_ID:19856						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.5 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.06)].						
FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39889\_62047.jpg



View of landward side.

LM Start	1.27	Rating **	M	Issue No.	16	
LM End	1.27	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.200919 °		37.200919 °
				-120.732234 °		-120.732234 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36705						
DS_ID:19857						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Landward side not accessible due to dense vegetation and fence. Concrete headwall and flap gate under water therefore not able to evaluate condition. Will need to coordinate with owner to evaluate condition of crossing on waterward side and obtain access to evaluate landward side.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 17.4 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.27)].						
FS Date: 4/18/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36705\_66654.jpg



Overview of levee crown at crossing.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.27	Rating **	M	Issue No.	16 (cont)
LM End	1.27	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.200919 °	37.200919 °
				-120.732234 °	-120.732234 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:36705  
 DS\_ID:19857  
 EP\_NO: N/A  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: Landward side not accessible due to dense vegetation and fence. Concrete headwall and flap gate under water therefore not able to evaluate condition. Will need to coordinate with owner to evaluate condition of crossing on waterward side and obtain access to evaluate landward side.  
 FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 17.4 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.27)].  
 FS Date: 4/18/2014

LM Start	<b>1.27</b>	Rating **	M	Issue No.	<b>16 (cont)</b>
LM End	<b>1.27</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36705\_66652.jpg



View of waterward slope.

Photo 3 of 3 : UCIP\_SP\_2018\_36705\_66653.jpg



View of concrete wall underwater.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.53	Rating **	M	Issue No.	17
LM End	1.53	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.200913 °	37.200913 °
				-120.727496 °	-120.727496 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:34126  
DS\_ID:19858  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Limited access on landward side due to fence and dense vegetation. Recommend obtaining access to landward side and clear vegetation on landward side.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.7 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.53)].  
FS Date: 4/18/2014

LM Start	<b>1.53</b>	Rating **	M	Issue No.	<b>17 (cont)</b>
LM End	<b>1.53</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_34126\_62060.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_34126\_62061.jpg



Concrete headwall and flap gate visible on waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.53	Rating **	M	Issue No.	17 (cont)	
LM End	1.53	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.200913 °		37.200913 °
				-120.727496 °		-120.727496 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:34126 DS_ID:19858 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Limited access on landward side due to fence and dense vegetation. Recommend obtaining access to landward side and clear vegetation on landward side. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.7 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.53)]. FS Date: 4/18/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_34126\_62059.jpg



View of landward side--limited access due to fence.

LM Start	2.16	Rating **	M	Issue No.	18
LM End	2.16	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.200908 °	37.200908 °
				-120.716118 °	-120.716118 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39506					
DS_ID:19859					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Recommend clearing vegetation from landward side--headwall blocked.					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 14.4 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.16)].					
FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39506\_62064.jpg



View of waterward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	2.16	Rating **	M	Issue No.	18 (cont)
LM End	2.16	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.200908 °	37.200908 °
				-120.716118 °	-120.716118 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39506 DS_ID:19859 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner. Recommend clearing vegetation from landward side--headwall blocked. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 14.4 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.16)]. FS Date: 4/18/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_39506\_62063.jpg



Overview of levee crown at crossing.

LM Start	<b>2.16</b>	Rating **	M	Issue No.	<b>18 (cont)</b>
LM End	<b>2.16</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39506\_62062.jpg



Dense vegetation on landward side--limited access due to fence along landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	2.33	Rating **	M	Issue No.	1
LM End	2.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.200907 °	37.200907 °
				-120.712978 °	-120.712978 °
DWR ID	DWR_NA0010_12_s_2012_1				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	2.70	Rating **	M	Issue No.	19
LM End	2.70	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.200906 °	37.200906 °
				-120.706316 °	-120.706316 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39890					
DS_ID:19860					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.					
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.7 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.70)].					
FS Date: 4/18/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39890\_62069.jpg



View of waterward side.

* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	2.70	Rating **	M	Issue No.	19 (cont)	
LM End	2.70	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.200906 °	37.200906 °	
				-120.706316 °	-120.706316 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39890						
DS_ID:19860						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to contact owner. Recommend clearing sediment deposit inside pipe.						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10.7 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.70)].						
FS Date: 4/18/2014						

LM Start	<b>2.70</b>	Rating **	M	Issue No.	<b>19 (cont)</b>
LM End	<b>2.70</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39890\_62070.jpg



Concrete headwall and flat gate located on waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_39890\_62068.jpg



View of landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	3.00	Rating **	M	Issue No.	20
LM End	3.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.200931 °	37.200931 °
				-120.700908 °	-120.700908 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:46786  
DS\_ID:19861  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11-09-2015 DWR Inspection section confirmed issue has been addressed. Need to coordinate with LMA to determine additional details for extent of repair. 10-18-2014 Soil missing behind concrete headwall on waterward side. Unable to determine if missing soil is due to sink holes, rodent activity, or due to erosion. Headwall appears to be leaning slightly forward. Reason why this crossing was labelled urgent was due to the uncertainty of damage to concrete headwall and reason for soil missing behind concrete. Need to coordinate with LMA to determine more information about repair at this location.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 2 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.00)].  
FS Date: 11/10/2015 9:29:00 AM

LM Start	<b>3.00</b>	Rating **	M	Issue No.	<b>20 (cont)</b>
LM End	<b>3.00</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_46786\_62073.jpg



View of waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_46786\_74729.jpg



Repair to headwall located on waterward side has been addressed.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	3.00	Rating **	M	Issue No.	20 (cont)	
LM End	3.00	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.200931 °	37.200931 °	
				-120.700908 °	-120.700908 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:46786 DS_ID:19861 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11-09-2015 DWR Inspection section confirmed issue has been addressed. Need to coordinate with LMA to determine additional details for extent of repair. 10-18-2014 Soil missing behind concrete headwall on waterward side. Unable to determine if missing soil is due to sink holes, rodent activity, or due to erosion. Headwall appears to be leaning slightly forward. Reason why this crossing was labelled urgent was due to the uncertainty of damage to concrete headwall and reason for soil missing behind concrete. Need to coordinate with LMA to determine more information about repair at this location. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 2 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 3.00)]. FS Date: 11/10/2015 9:29:00 AM						

Photo 3 of 3 : UCIP\_SP\_2018\_46786\_62072.jpg



Side view of concrete headwall which appears to be slightly slanted forward--missing soil behind headwall.

LM Start	3.00	Rating **	M	Issue No.	10
LM End	3.02	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			37.200912 °	37.200916 °
				-120.700797 °	-120.700536 °
DWR ID	DWR_NA0010_12_f_2017_10				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Cracking on crown near shoulder approximately 75 feet long should be monitored.					

Photo 1 of 3 : SP\_2018\_NA0010\_130\_10\_20180307\_00001.jpg



Looking west at the waterside shoulder.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	04/16/2018 04/16/2018	Richard Willoughby

LM Start	3.00	Rating **	M	Issue No.	10 (cont)	
LM End	3.02	Issue Type +	Ma	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Cracking			37.200912 °		37.200916 °
				-120.700797 °		-120.700536 °
DWR ID	DWR_NA0010_12_f_2017_10					
Comment Code						
CR1 : Monitor and have inspected by geotechnical engineer.						
Inspector Comment						
Cracking on crown near shoulder approximately 75 feet long should be monitored.						

Photo 2 of 3 : SP\_2018\_NA0010\_130\_10\_20180307\_00002.jpg



Typical measurement of the cracking on crown shoulder.

LM Start	<b>3.00</b>	Rating **	M	Issue No.	<b>10 (cont)</b>
LM End	<b>3.02</b>	Issue Type +	Ma	Location *	CR

Photo 3 of 3 : SP\_2018\_NA0010\_130\_10\_20180307\_00003.jpg



Typical depth of the cracking on crown shoulder.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	04/05/2018 04/05/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	8
LM End	1.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.033765 °	37.046311 °
				-120.442120 °	-120.428114 °
DWR ID	DWR_NA0010_13_s_2018_8				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_131\_8\_20180411\_00017.jpg



Looking upstream at typical view of landward slope. (Spring 2018)

LM Start	0.00	Rating **	M	Issue No.	9
LM End	1.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.033767 °	37.046311 °
				-120.442121 °	-120.428114 °
DWR ID	DWR_NA0010_13_s_2018_9				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_131\_9\_20180411\_00018.jpg



Looking upstream at typical view of waterward slope. (Spring 2018)

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	04/05/2018 04/05/2018	Richard Willoughby

LM Start	0.15	Rating **	M	Issue No.	3
LM End	0.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.035760 °	37.035760 °
				-120.441282 °	-120.441282 °
DWR ID	DWR_NA0010_13_s_2012_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_131\_3\_20180307\_00001.jpg



Looking at the landside slope.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	04/05/2018 04/05/2018	Richard Willoughby

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>3</b>
LM End	<b>1.26</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.032374 °	37.045428 °	
			-120.441275 °	-120.427702 °	
DWR ID	DWR_NA0010_14_s _ 2018_3				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>6</b>
LM End	<b>1.26</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.032374 °	37.045428 °	
			-120.441275 °	-120.427702 °	
DWR ID	DWR_NA0010_14_s _ 2018_6				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	04/05/2018 04/05/2018	Richard Willoughby

LM Start	0.25	Rating **	M	Issue No.	5
LM End	0.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.035841 °	37.035841 °
				-120.439795 °	-120.439795 °
DWR ID	DWR_NA0010_14_f_2017_5				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_132\_5\_20180307\_00002.jpg



Looking at the landside slope.

LM Start	1.24	Rating **	M	Issue No.	79
LM End	1.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.045343 °	37.045343 °
				-120.428007 °	-120.428007 °
DWR ID	DWR_NA0010_14_s_2015_79				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Noted several rodent holes on landside at this location.					

Photo 1 of 1 : SP\_2018\_NA0010\_132\_79\_20180307\_00003.jpg



Looking at typical view of rodent holes on landward slope.

\* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	04/05/2018 04/05/2018	Richard Willoughby

LM Start	1.26	Rating **	A/W	Issue No.	81
LM End	1.26	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.045383 °	37.045383 °
				-120.427754 °	-120.427754 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32828 DS_ID:19910 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Slide gate in a 42-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on the WS end. Pipe terminates into a concrete ditch on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.26)]. FS Date: 3/27/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_32828\_59402.jpg



Concrete U-shaped headwall on Ws toe.

LM Start	<b>1.26</b>	Rating **	A/W	Issue No.	<b>81 (cont)</b>
LM End	<b>1.26</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_32828\_59401.jpg



slidegate in CMP riser on WS slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	04/05/2018 04/05/2018	Richard Willoughby

LM Start	1.26	Rating **	A/W	Issue No.	81 (cont)	
LM End	1.26	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.045383 °		37.045383 °
				-120.427754 °		-120.427754 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32828 DS_ID:19910 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 9 feet below the crown. Slide gate in a 42-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on the WS end. Pipe terminates into a concrete ditch on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.26)]. FS Date: 3/27/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_32828\_59400.jpg



Inlet assumed to be within irrigation structure off LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.01	Rating **	M	Issue No.	11
LM End	1.99	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			36.996547 °	36.996587 °
				-120.410220 °	-120.374503 °
DWR ID	DWR_NA0010_15_s_2012_11				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					

No Photos

LM Start	0.37	Rating **	M	Issue No.	3
LM End	0.37	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.996550 °	36.996550 °
				-120.403647 °	-120.403647 °
DWR ID	DWR_NA0010_15_f_2016_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes identified on the levee crown.					

Photo 1 of 1 : SP\_2018\_NA0010\_133\_3\_20180307\_00001.jpg



Looking at typical rodent holes on levee crown.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.48	Rating **	A/W	Issue No.	12
LM End	0.48	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.996551 °	36.996551 °
				-120.401737 °	-120.401737 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32838					
DS_ID:19911					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 30-inch by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 10.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.					
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.48)].					
FS Date: 3/27/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_32838\_59448.jpg



Concrete headwall on WS toe.

LM Start	<b>0.48</b>	Rating **	A/W	Issue No.	<b>12 (cont)</b>
LM End	<b>0.48</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_32838\_59449.jpg



Flapgate on Concrete headwall at WS 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.48	Rating **	A/W	Issue No.	12 (cont)
LM End	0.48	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.996551 °	36.996551 °
				-120.401737 °	-120.401737 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32838					
DS_ID:19911					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 30-inch by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 10.1 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.					
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.48)].					
FS Date: 3/27/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_32838\_59447.jpg



Concrete headwall on LS toe.

LM Start	1.00	Rating **	M	Issue No.	13
LM End	1.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.996566 °	36.996566 °
				-120.392280 °	-120.392280 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39527					
DS_ID:19912					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.					
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 30-inch by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 8.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.					
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.01)].					
FS Date: 3/27/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39527\_59452.jpg



Concrete headwall on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.00	Rating **	M	Issue No.	13 (cont)
LM End	1.00	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		36.996566 °	36.996566 °	
			-120.392280 °	-120.392280 °	
DWR ID					

Comment Code

Inspector Comment

FS\_ID:39527  
DS\_ID:19912  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 30-inch by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 8.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.  
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.01)].  
FS Date: 3/27/2014

LM Start	1.00	Rating **	M	Issue No.	13 (cont)
LM End	1.00	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39527\_59453.jpg



Flapgate on concrete headwall at WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39527\_59451.jpg



Concrete headwall on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.51	Rating **	M	Issue No.	8	
LM End	1.51	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			36.996560 °		36.996560 °
				-120.383133 °		-120.383133 °
DWR ID	DWR_NA0010_15_s_2018_8					
Comment Code						
GA : Garbage						
Inspector Comment						
Sofa on waterward slope.						

No Photos

LM Start	1.53	Rating **	M	Issue No.	14
LM End	1.53	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.996582 °	36.996582 °
				-120.382757 °	-120.382757 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32840 DS_ID:19913 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Excessive vegetation at inlet on LS toe. FIELD_STRUCT_DESC: 30-inch by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 8.9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.53)]. FS Date: 3/27/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_32840\_59456.jpg



Concrete headwall on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.53	Rating **	M	Issue No.	14 (cont)
LM End	1.53	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.996582 °	36.996582 °
				-120.382757 °	-120.382757 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32840 DS_ID:19913 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Excessive vegetation at inlet on LS toe. FIELD_STRUCT_DESC: 30-inch by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 8.9 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.53)]. FS Date: 3/27/2014					

Photo 2 of 3 : UCIP\_SP\_2018\_32840\_59457.jpg



Flapgate on concrete headwall at WS toe.

LM Start	<b>1.53</b>	Rating **	M	Issue No.	<b>14 (cont)</b>
LM End	<b>1.53</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_32840\_59455.jpg



Concrete headwall on LS toe. Note excessive vegetation buildup.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.58	Rating **	M	Issue No.	6
LM End	2.01	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.996563 °	36.996578 °
				-120.381895 °	-120.374111 °
DWR ID	DWR_NA0010_15_f_2017_6				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_133\_6\_20180307\_00003.jpg



Representative picture on the crown.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	8
LM End	1.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.995357 °	36.995497 °
				-120.408923 °	-120.373623 °
DWR ID	DWR_NA0010_16_s_2018_8				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_134\_8\_20180420\_00012.jpg



Looking west at typical view of landward slope. (Spring 2018)

LM Start	0.00	Rating **	M	Issue No.	9
LM End	1.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.995357 °	36.995497 °
				-120.408923 °	-120.373623 °
DWR ID	DWR_NA0010_16_s_2018_9				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_134\_9\_20180420\_00011.jpg



Looking east at typical view of waterward slope. (Spring 2018)

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	04/03/2018 04/03/2018	Richard Willoughby

LM Start	0.01	Rating **	A/W	Issue No.	14
LM End	1.96	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.995388 °	36.995507 °
				-120.408738 °	-120.373592 °
DWR ID	DWR_NA0010_16_s_2012_14				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control vegetation and regrade levee crown.					

Photo 1 of 1 : SP\_2018\_NA0010\_134\_14\_20180307\_00005.jpg



Looking at typical view of levee crown.

LM Start	0.93	Rating **	M	Issue No.	92
LM End	0.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.995439 °	36.995439 °
				-120.392146 °	-120.392146 °
DWR ID	DWR_NA0010_16_s_2015_92				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes identified within this section.					

Photo 1 of 1 : SP\_2018\_NA0010\_134\_92\_20180307\_00006.jpg



Looking at several rodent holes on landward slope.

LM Start	1.09	Rating **	M	Issue No.	3
LM End	1.09	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.995433 °	36.995433 °
				-120.389190 °	-120.389190 °
DWR ID	DWR_NA0010_16_f_2016_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes identified on the levee crown.					

Photo 1 of 1 : SP\_2018\_NA0010\_134\_3\_20180307\_00003.jpg



Looking at several rodent holes and moles holes on 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.44	Rating **	M	Issue No.	93
LM End	1.44	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.995473 °	36.995473 °
				-120.382872 °	-120.382872 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39529					
DS_ID:19915					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation buildup at landside toe--recommend clearing.					
FIELD_STRUCT_DESC: 30-inch by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 8.5 feet below the crown. Two concrete cutoff walls. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.46)].					
FS Date: 4/1/2014 8:12:00 AM					

Photo 1 of 3 : UCIP\_SP\_2018\_39529\_59681.jpg



Concrete headwall on WS toe with channel.

LM Start	<b>1.44</b>	Rating **	M	Issue No.	<b>93 (cont)</b>
LM End	<b>1.44</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39529\_59680.jpg



Flapgate on headwall at WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.44	Rating **	M	Issue No.	93 (cont)	
LM End	1.44	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			36.995473 °	36.995473 °	
				-120.382872 °	-120.382872 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39529 DS_ID:19915 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation buildup at landside toe-- recommend clearing. FIELD_STRUCT_DESC: 30-inch by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 8.5 feet below the crown. Two concrete cutoff walls. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 1.46)]. FS Date: 4/1/2014 8:12:00 AM						

Photo 3 of 3 : UCIP\_SP\_2018\_39529\_59682.jpg



Concrete headwall on LS toe covered in vegetation/tumble weeds.

LM Start	1.46	Rating **	A/W	Issue No.	7
LM End	1.60	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.995466 °	36.995471 °
				-120.382574 °	-120.380111 °
DWR ID	DWR_NA0010_16_f_2017_7				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_134\_7\_20180411\_00010.jpg



Looking east at typical view of levee crown. (Spring 2018)

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	04/03/2018 04/03/2018	Richard Willoughby

LM Start	1.68	Rating **	M	Issue No.	4
LM End	1.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.995503 °	36.995503 °
				-120.378579 °	-120.378579 °
DWR ID	DWR_NA0010_16_s_2014_4				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.77	Rating **	U	Issue No.	2
LM End	1.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.995487 °	36.995487 °
				-120.377054 °	-120.377054 °
DWR ID	DWR_NA0010_16_f_2014_2				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Large rodent holes on landside slope.					

Photo 1 of 2 : SP\_2018\_NA0010\_134\_2\_20180307\_00001.jpg



Looking at large rodent holes on landward slope.

LM Start	<b>1.77</b>	Rating **	U	Issue No.	<b>2 (cont)</b>
LM End	<b>1.77</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2018\_NA0010\_134\_2\_20180307\_00002.jpg



Looking southwest at several rodent holes on landward slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	13
LM End	16.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.976461 °	36.774440 °
				-120.374672 °	-120.283749 °
DWR ID	DWR_NA0010_17_s _ 2018_13				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_135\_13\_20180411\_00037.jpg



Looking upstream (south) at typical view of landward slope. (Spring 2018)

LM Start	0.00	Rating **	M	Issue No.	14
LM End	16.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.976462 °	36.774440 °
				-120.374672 °	-120.283749 °
DWR ID	DWR_NA0010_17_s _ 2018_14				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_135\_14\_20180411\_00038.jpg



Looking upstream (south) at typical view of waterward slope. (Spring 2018)

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	0.64	Rating **	M	Issue No.	18
LM End	0.64	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.976181 °	36.976181 °
				-120.363241 °	-120.363241 °
DWR ID	DWR_NA0010_17_f_2017_18				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Multiple rodent holes in this area.					

Photo 1 of 1 : SP\_2018\_NA0010\_135\_18\_20180307\_00007.jpg



Looking at the crown.

LM Start	2.57	Rating **	M	Issue No.	25	
LM End	2.57	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			36.952254 °		36.952254 °
				-120.348804 °		-120.348804 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39531 DS_ID:19916 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 48-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 14.6 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.58)]. FS Date: 4/1/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_39531\_59710.jpg



Concrete headwall at channel on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	2.57	Rating **	M	Issue No.	25 (cont)	
LM End	2.57	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			36.952254 °	36.952254 °	
				-120.348804 °	-120.348804 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39531						
DS_ID:19916						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.						
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 48-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 14.6 feet below the crown.						
Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.58)].						
FS Date: 4/1/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39531\_59711.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	<b>2.57</b>	Rating **	M	Issue No.	<b>25 (cont)</b>
LM End	<b>2.57</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39531\_59709.jpg



Concrete headwall at LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	4.68	Rating **	A/W	Issue No.	26
LM End	4.68	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.923426 °	36.923426 °
				-120.336559 °	-120.336559 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:32998  
DS\_ID:19921  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments:  
FIELD\_STRUCT\_DESC: 48-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 14.6 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. 36-inch weir structure on the WS. Combination flap gate and slide gate on the WS toe. Steel walkway to slide gate actuator on the WS shoulder. (Plans to construct a 3.281-foot-high weir and attach a cable operated flap valve to an existing 48-inch by 60-inch culvert authorized under Permit No. 13587, 1983 - Clark Brothers Farming, Arroyo Ranch). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.69)].  
FS Date: 4/1/2014

LM Start	<b>4.68</b>	Rating **	A/W	Issue No.	<b>26 (cont)</b>
LM End	<b>4.68</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_32998\_59714.jpg



Steel walkway to slide gate actuator on WS shoulder.

Photo 2 of 3 : UCIP\_SP\_2018\_32998\_59715.jpg



Combination flapgate/slidegate, concrete headwall, and metal screen at WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	4.68	Rating **	A/W	Issue No.	26 (cont)	
LM End	4.68	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			36.923426 °	36.923426 °	
				-120.336559 °	-120.336559 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32998						
DS_ID:19921						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 48-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 14.6 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. 36-inch weir structure on the WS. Combination flap gate and slide gate on the WS toe. Steel walkway to slide gate actuator on the WS shoulder. (Plans to construct a 3.281-foot-high weir and attach a cable operated flap valve to an existing 48-inch by 60-inch culvert authorized under Permit No. 13587, 1983 - Clark Brothers Farming, Arroyo Ranch). [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 4.69)].						
FS Date: 4/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_32998\_59713.jpg



Concrete headwall on LS toe.

LM Start	4.74	Rating **	M	Issue No.	22
LM End	4.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			36.922526 °	36.922526 °
				-120.336227 °	-120.336227 °
DWR ID	DWR_NA0010_17_f_2017_22				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_135\_22\_20180307\_00009.jpg



Looking southeast at the landside slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	5.75	Rating **	M	Issue No.	8
LM End	5.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.908605 °	36.906507 °
				-120.331112 °	-120.330353 °
DWR ID	DWR_NA0010_17_s_2012_8				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Multiple rodent holes noted on landside slope.					

LM Start	<b>5.75</b>	Rating **	M	Issue No.	<b>8 (cont)</b>
LM End	<b>5.90</b>	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP\_2018\_NA0010\_135\_8\_20180307\_00005.jpg



Looking at several rodent holes on landward slope. (Spring 2015)

Photo 2 of 2 : SP\_2018\_NA0010\_135\_8\_20180307\_00006.jpg



Looking at several rodent holes on landside slope. (Fall 2014)

LM Start	6.51	Rating **	M	Issue No.	4
LM End	6.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.898093 °	36.895300 °
				-120.326689 °	-120.325322 °
DWR ID	DWR_NA0010_17_s_2012_4				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes identified within this reach.					

Photo 1 of 1 : SP\_2018\_NA0010\_135\_4\_20180307\_00003.jpg



Looking at typical view of rodent holes on landward slope.

**\* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	7.27	Rating **	M	Issue No.	5
LM End	7.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.887852 °	36.886388 °
				-120.321668 °	-120.320950 °
DWR ID	DWR_NA0010_17_s_2012_5				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes identified within this reach.					

Photo 1 of 1 : SP\_2018\_NA0010\_135\_5\_20180307\_00004.jpg



Looking at typical view of rodent holes on landward slope.

LM Start	7.41	Rating **	M	Issue No.	23
LM End	7.41	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.885998 °	36.885998 °
				-120.320759 °	-120.320759 °
DWR ID	DWR_NA0010_17_f_2017_23				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_135\_23\_20180307\_00010.jpg



Looking southwest at the crown.

LM Start	8.15	Rating **	M	Issue No.	24
LM End	8.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.875525 °	36.875525 °
				-120.317788 °	-120.317788 °
DWR ID	DWR_NA0010_17_f_2017_24				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes on landside and crown of levee. Rodent holes have caused some erosion on the landside slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_135\_24\_20180307\_00011.jpg



Looking east at the landside slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	<b>8.37</b>	Rating **	A/W	Issue No.	<b>27</b>
LM End	<b>8.37</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		36.872358 °	36.872358 °	
			-120.317170 °	-120.317170 °	
DWR ID					

Comment Code

Inspector Comment

FS\_ID:32999  
DS\_ID:19922  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments:  
FIELD\_STRUCT\_DESC: 48-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 16.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.38)].  
FS Date: 4/1/2014

LM Start	<b>8.37</b>	Rating **	A/W	Issue No.	<b>27 (cont)</b>
LM End	<b>8.37</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_32999\_59718.jpg



Concrete headwall and channel on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_32999\_59720.jpg



Flapgate on concrete headwall at WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	8.37	Rating **	A/W	Issue No.	27 (cont)	
LM End	8.37	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			36.872358 °	36.872358 °	
				-120.317170 °	-120.317170 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32999						
DS_ID:19922						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 48-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 16.5 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.38)].						
FS Date: 4/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_32999\_59719.jpg



Concrete headwall and channel on LS toe.

LM Start	9.88	Rating **	M	Issue No.	28
LM End	9.88	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.850703 °	36.850703 °
				-120.314154 °	-120.314154 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39532					
DS_ID:19917					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 48-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 15 feet below the crown. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.89)].					
FS Date: 4/1/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39532\_59723.jpg



Concrete headwall and channel on WS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	9.88	Rating **	M	Issue No.	28 (cont)	
LM End	9.88	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			36.850703 °	36.850703 °	
				-120.314154 °	-120.314154 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39532						
DS_ID:19917						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.						
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 48-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 15 feet below the crown.						
Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 9.89)].						
FS Date: 4/1/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_39532\_59724.jpg



Flapgate on Concrete headwall at WS toe.

LM Start	<b>9.88</b>	Rating **	M	Issue No.	<b>28 (cont)</b>
LM End	<b>9.88</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_39532\_59722.jpg



Concrete headwall and channel on LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	12.28	Rating **	M	Issue No.	3
LM End	12.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.821368 °	36.820000 °
				-120.300283 °	-120.300831 °
DWR ID	DWR_NA0010_17_s_2014_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes identified within this reach.					

LM Start	12.28	Rating **	M	Issue No.	3 (cont)
LM End	12.38	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP\_2018\_NA0010\_135\_3\_20180307\_00001.jpg



Looking at typical view of rodent holes on landward slope. Fall 2015

Photo 2 of 2 : SP\_2018\_NA0010\_135\_3\_20180307\_00002.jpg



Looking at several rodent holes on landward slope. Spring 2015

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	13.29	Rating **	M	Issue No.	29
LM End	13.29	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.807509 °	36.807509 °
				-120.306231 °	-120.306231 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39533 DS_ID:19918 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some vegetation buildup at inlet--recommend clearing. FIELD_STRUCT_DESC: 48-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 15.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.30)]. FS Date: 4/1/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39533\_59727.jpg



Concrete headwall on WS toe.

LM Start	13.29	Rating **	M	Issue No.	29 (cont)
LM End	13.29	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39533\_59726.jpg



Concrete headwall on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	13.29	Rating **	M	Issue No.	29 (cont)
LM End	13.29	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.807509 °	36.807509 °
				-120.306231 °	-120.306231 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39533 DS_ID:19918 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some vegetation buildup at inlet--recommend clearing. FIELD_STRUCT_DESC: 48-inch by 60-inch reinforced concrete box gravity drainage culvert through the levee, 15.3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 13.30)]. FS Date: 4/1/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39533\_59725.jpg



Concrete headwall on LS toe. Some vegetation buildup.

LM Start	14.69	Rating **	M	Issue No.	32
LM End	14.69	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.789066 °	36.789066 °
				-120.300644 °	-120.300644 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39535					
DS_ID:19920					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Heavy vegetation buildup at LS toe--recommend clearing.					
FIELD_STRUCT_DESC: 30-inch by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 14 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.					
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 14.69)].					
FS Date: 4/1/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39535\_59745.jpg



Concrete headwall at WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	04/05/2018 04/05/2018	Richard Willoughby

LM Start	14.69	Rating **	M	Issue No.	32 (cont)	
LM End	14.69	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			36.789066 °	36.789066 °	
				-120.300644 °	-120.300644 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39535						
DS_ID:19920						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Heavy vegetation buildup at LS toe--recommend clearing.						
FIELD_STRUCT_DESC: 30-inch by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 14 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 14.69)].						
FS Date: 4/1/2014						

LM Start	<b>14.69</b>	Rating **	M	Issue No.	<b>32 (cont)</b>
LM End	<b>14.69</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39535\_59747.jpg



Flapgate on Concrete headwall at WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_39535\_59746.jpg



Concrete headwall at channel on LS toe. Heavy vegetation buildup.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	04/17/2018 04/17/2018	Richard Willoughby

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>19</b>
LM End	<b>15.35</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		36.974133 °	36.773493 °	
			-120.363257 °	-120.285222 °	
DWR ID	DWR_NA0010_18_s _ 2018_19				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>18</b>
LM End	<b>15.35</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		36.974133 °	36.773493 °	
			-120.363256 °	-120.285221 °	
DWR ID	DWR_NA0010_18_s _ 2018_18				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.58	Rating **	U	Issue No.	20
LM End	0.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.967678 °	36.967678 °
				-120.357660 °	-120.357660 °
DWR ID	DWR_NA0010_18_s_2018_20				
Comment Code					
GA : Garbage					
Inspector Comment					
Garbage (rubber tires) stockpile on waterward slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_137\_20\_20180420\_00022.jpg



Looking east at garbage (rubber tires) on waterward slope. (Spring 2018)

LM Start	1.44	Rating **	M	Issue No.	7
LM End	1.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.956163 °	36.956163 °
				-120.353672 °	-120.353672 °
DWR ID	DWR_NA0010_18_s_2014_7				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several holes identified on landside slope and on the levee crown.					

Photo 1 of 1 : SP\_2018\_NA0010\_137\_7\_20180307\_00003.jpg



Looking at typical view of rodent holes within this section on landward slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	04/17/2018 04/17/2018	Richard Willoughby

LM Start	2.25	Rating **	U	Issue No.	8
LM End	2.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.945563 °	36.945563 °
				-120.347121 °	-120.347121 °
DWR ID	DWR_NA0010_18_f_2015_8				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
One large rodent hole and other rodent holes within this area.					

Photo 1 of 2 : SP\_2018\_NA0010\_137\_8\_20180307\_00004.jpg



Looking at large rodent hole on landward slope.

LM Start	<b>2.25</b>	Rating **	U	Issue No.	<b>8 (cont)</b>
LM End	<b>2.25</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2018\_NA0010\_137\_8\_20180307\_00005.jpg



Looking at close-up view of large rodent hole on landward slope.

LM Start	3.68	Rating **	M	Issue No.	17
LM End	3.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.925683 °	36.925683 °
				-120.339692 °	-120.339692 °
DWR ID	DWR_NA0010_18_s_2018_17				
Comment Code					
PI : Pipe					
Inspector Comment					
Remove Irrigation pipes stored in channel.					

Photo 1 of 1 : SP\_2018\_NA0010\_137\_17\_20180420\_00023.jpg



Looking east at irrigation pipe stored in channel. (Spring 2018)

**\* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	04/17/2018 04/17/2018	Richard Willoughby

LM Start	4.69	Rating **	M	Issue No.	16
LM End	4.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.911613 °	36.911613 °
				-120.334542 °	-120.334542 °
DWR ID	DWR_NA0010_18_f_2017_16				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes on landside slope and crown.					

No Photos

LM Start	5.89	Rating **	U	Issue No.	1
LM End	5.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.895175 °	36.895175 °
				-120.327632 °	-120.327632 °
DWR ID	DWR_NA0010_18_s_2015_1				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several large rodent holes noted on landside slope and berm within this section.					

Photo 1 of 1 : SP\_2018\_NA0010\_137\_1\_20180307\_00001.jpg



Looking at the landside slope.

LM Start	5.99	Rating **	U	Issue No.	15
LM End	5.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.893924 °	36.893924 °
				-120.327020 °	-120.327020 °
DWR ID	DWR_NA0010_18_f_2017_15				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Multiple large rodent holes at the landside toe.					

Photo 1 of 1 : SP\_2018\_NA0010\_137\_15\_20180307\_00008.jpg



Looking west at the landside slope.

\* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	04/17/2018 04/17/2018	Richard Willoughby

LM Start	6.52	Rating **	M	Issue No.	9
LM End	6.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.886767 °	36.886767 °
				-120.323482 °	-120.323482 °
DWR ID	DWR_NA0010_18_f_2014_9				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	7.39	Rating **	U	Issue No.	14
LM End	7.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.874479 °	36.872503 °
				-120.319831 °	-120.319438 °
DWR ID	DWR_NA0010_18_f_2017_14				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes noted along landside slope in this area.					

Photo 1 of 1 : SP\_2018\_NA0010\_137\_14\_20180307\_00007.jpg



Looking south at the landside slope.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	04/17/2018 04/17/2018	Richard Willoughby

LM Start	8.67	Rating **	U	Issue No.	13
LM End	8.67	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.856115 °	36.856115 °
				-120.316595 °	-120.316595 °
DWR ID	DWR_NA0010_18_f_2017_13				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_137\_13\_20180307\_00006.jpg



Looking south at the landside slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>19</b>
LM End	<b>5.51</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.205968 °	37.272489 °	
			-120.697054 °	-120.741971 °	
DWR ID	DWR_NA0010_22A_s _ 2018_19				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>20</b>
LM End	<b>5.51</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.205968 °	37.272489 °	
			-120.697054 °	-120.741971 °	
DWR ID	DWR_NA0010_22A_s _ 2018_20				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.10	Rating **	M	Issue No.	12
LM End	0.75	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.206972 °	37.216123 °
				-120.696245 °	-120.697722 °
DWR ID	DWR_NA0010_22A_s_2017_12				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	0.10	Rating **	U	Issue No.	18
LM End	0.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.207017 °	37.207017 °
				-120.696261 °	-120.696261 °
DWR ID	DWR_NA0010_22A_f_2017_18				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Sinkhole on waterside at pipe location.					

Photo 1 of 2 : SP\_2018\_NA0010\_138\_18\_20180307\_00016.jpg



Looking west at waterside sinkhole.

LM Start	<b>0.10</b>	Rating **	U	Issue No.	<b>18 (cont)</b>
LM End	<b>0.10</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2018\_NA0010\_138\_18\_20180307\_00017.jpg



Looking north at the waterside slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.10	Rating **	M	Issue No.	260 (cont)	
LM End	0.10	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.207039 °	37.207039 °	
				-120.696255 °	-120.696255 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:49959						
DS_ID:19933						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 07/19/2016 Gate inside riser appears operable--riser lid damage. Crossing is not visible on LS due to dense vegetation. Recommend clearing dense vegetation along WS and LS slope and repairing riser cover. (DWR UCIP - omagana)04/15/2014 No actuator wheel on slide gate at WS shoulder. (DWR UCIP - omagana)						
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 14.8 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall on each end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.10)].						
FS Date: 7/19/2016						

Photo 3 of 3 : UCIP\_SP\_2018\_49959\_61059.jpg



Concrete headwall at LS toe.

LM Start	0.53	Rating **	U	Issue No.	21
LM End	0.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.213006 °	37.217593 °
				-120.698019 °	-120.697400 °
DWR ID	DWR_NA0010_22A_f_2014_21				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation on landside slope.					

Photo 1 of 3 : SP\_2018\_NA0010\_138\_21\_20180307\_00018.jpg



Looking northwest at the landside slope.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	0.53	Rating **	U	Issue No.	21 (cont)	
LM End	0.85	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.213006 °		37.217593 °
				-120.698019 °		-120.697400 °
DWR ID	DWR_NA0010_22A_f_2014_21					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Dense vegetation on landside slope.						

Photo 2 of 3 : SP\_2018\_NA0010\_138\_21\_20180307\_00019.jpg



Looking at dense vegetation on landward slope. Fall 2015

LM Start	<b>0.53</b>	Rating **	U	Issue No.	<b>21 (cont)</b>
LM End	<b>0.85</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : SP\_2018\_NA0010\_138\_21\_20180307\_00020.jpg



Looking south at dense vegetation on landward slope. Spring 2015

LM Start	1.03	Rating **	M	Issue No.	10
LM End	5.09	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.220040 °	37.267962 °
				-120.698181 °	-120.736909 °
DWR ID	DWR_NA0010_22A_s_2018_10				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Several pot holes and depressions along levee crown.					

Photo 1 of 2 : SP\_2018\_NA0010\_138\_10\_20180411\_00035.jpg



Looking upstream at rutting on levee crown within this section. (Spring 2018)

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	1.03	Rating **	M	Issue No.	10 (cont)	
LM End	5.09	Issue Type +	Ma	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Crown Surface / Depressions / Rutting			37.220040 °		37.267962 °
				-120.698181 °		-120.736909 °
DWR ID	DWR_NA0010_22A_s_2018_10					
Comment Code						
C2 : Repair depressions or ruts in the crown or slope.						
Inspector Comment						
Several pot holes and depressions along levee crown.						

Photo 2 of 2 : SP\_2018\_NA0010\_138\_10\_20180307\_00011.jpg



Looking downstream at rutting and potholes on levee crown. (Fall 2017)

LM Start	1.73	Rating **	M	Issue No.	16
LM End	1.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.229779 °	37.229779 °
				-120.701797 °	-120.701797 °
DWR ID	DWR_NA0010_22A_s_2018_16				
Comment Code					
Inspector Comment					

No Photos

LM Start	2.65	Rating **	U	Issue No.	7
LM End	2.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.242595 °	37.242595 °
				-120.706470 °	-120.706470 °
DWR ID	DWR_NA0010_22A_s_2017_7				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion cutting into waterside shoulder.					

Photo 1 of 2 : SP\_2018\_NA0010\_138\_7\_20180307\_00005.jpg



Looking northwest at the waterside shoulder.

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



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	2.65	Rating **	U	Issue No.	7 (cont)	
LM End	2.65	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.242595 °	37.242595 °	
				-120.706470 °	-120.706470 °	
DWR ID	DWR_NA0010_22A_s_2017_7					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Erosion cutting into waterside shoulder.						

Photo 2 of 2 : SP\_2018\_NA0010\_138\_7\_20180307\_00006.jpg



Looking downstream at erosion on waterward shoulder and slope.

LM Start	2.86	Rating **	M	Issue No.	15
LM End	3.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.245431 °	37.247343 °
				-120.707990 °	-120.710362 °
DWR ID	DWR_NA0010_22A_s_2014_15				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes on landside slope and toe.					

Photo 1 of 1 : SP\_2018\_NA0010\_138\_15\_20180307\_00014.jpg



Looking at several rodent holes on landward slope.

LM Start	3.64	Rating **	U	Issue No.	9
LM End	3.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.253362 °	37.253862 °
				-120.717873 °	-120.718507 °
DWR ID	DWR_NA0010_22A_f_2016_9				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Several erosions or levee damage caused by animal traffice within this section.					

Photo 1 of 2 : SP\_2018\_NA0010\_138\_9\_20180307\_00009.jpg



Looking southeast at the waterside slope.

**\* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	3.64	Rating **	U	Issue No.	9 (cont)	
LM End	3.69	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.253362 °	37.253862 °	
				-120.717873 °	-120.718507 °	
DWR ID	DWR_NA0010_22A_f _ 2016_9					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						
Several erosions or levee damage caused by animal traffice within this section.						

Photo 2 of 2 : SP\_2018\_NA0010\_138\_9\_20180307\_00010.jpg



Looking downstream at animal erosion on waterward slope.

LM Start	3.79	Rating **	M	Issue No.	11
LM End	3.79	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.254923 °	37.254923 °
				-120.719769 °	-120.719769 °
DWR ID	DWR_NA0010_22A_s_2014_11				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	3.80	Rating **	M	Issue No.	259
LM End	3.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.255067 °	37.255067 °
				-120.719910 °	-120.719910 °
DWR ID	DWR_NA0010_22A_s_2015_259				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Dead tree stump on waterside slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_138\_259\_20180307\_00022.jpg



Looking east at dead stump on waterward slope.

**\* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	3.81	Rating **	M	Issue No.	13
LM End	3.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.255199 °	37.255199 °
				-120.720094 °	-120.720094 °
DWR ID	DWR_NA0010_22A_f_2017_13				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_138\_13\_20180307\_00012.jpg



Looking northeast at the waterside slope.

LM Start	3.82	Rating **	A/W	Issue No.	14
LM End	3.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.255239 °	37.255239 °
				-120.720142 °	-120.720142 °
DWR ID	DWR_NA0010_22A_f_2017_14				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_138\_14\_20180307\_00013.jpg



Looking northeast at the waterside slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	4.87	Rating **	A/W	Issue No.	8
LM End	4.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.265813 °	37.265813 °
				-120.733748 °	-120.733748 °
DWR ID	DWR_NA0010_22A_f_2016_8				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Levee damage caused by animal traffic. Several site repaired with broken concrete. But other sites still need repairing.					

Photo 1 of 4 : SP\_2018\_NA0010\_138\_8\_20180411\_00036.jpg



Looking downstream at repaired site with concrete rubble on waterward slope and shoulder. (Spring 2018)

LM Start	<b>4.87</b>	Rating **	A/W	Issue No.	<b>8 (cont)</b>
LM End	<b>4.87</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : SP\_2018\_NA0010\_138\_8\_20180307\_00008.jpg



Looking downstream at animal erosion on waterward slope.

LM Start	<b>4.87</b>	Rating **	A/W	Issue No.	<b>8 (cont)</b>
LM End	<b>4.87</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : SP\_2018\_NA0010\_138\_8\_20180411\_00037.jpg



Looking downstream at repaired site with concrete rubble on waterward slope. (Spring 2018)

* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	4.87	Rating **	A/W	Issue No.	8 (cont)	
LM End	4.87	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.265813 °		37.265813 °
				-120.733748 °		-120.733748 °
DWR ID	DWR_NA0010_22A_f_2016_8					
Comment Code						
S1 : Repair slope instability.						
Inspector Comment						
Levee damage caused by animal traffic. Several site repaired with broken concrete. But other sites still need repairing.						

Photo 4 of 4 : SP\_2018\_NA0010\_138\_8\_20180307\_00007.jpg



Looking downstream at animal erosion on waterward slope.

LM Start	5.05	Rating **	M	Issue No.	4
LM End	5.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.267516 °	37.267516 °
				-120.736401 °	-120.736401 °
DWR ID	DWR_NA0010_22A_f_2013_4				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion caused by animal traffic.					

Photo 1 of 2 : SP\_2018\_NA0010\_138\_4\_20180307\_00001.jpg



Looking southeast at livestock erosion on waterward toe.

LM Start	<b>5.05</b>	Rating **	M	Issue No.	<b>4 (cont)</b>
LM End	<b>5.05</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2018\_NA0010\_138\_4\_20180307\_00002.jpg



Looking southeast at livestock erosion on waterward toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	04/04/2018 04/04/2018	Richard Willoughby

LM Start	5.12	Rating **	M	Issue No.	6
LM End	5.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.268236°	37.269124°
				-120.737210°	-120.738200°
DWR ID	DWR_NA0010_22A_s_2012_6				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Slope damage caused by livestock on waterside toe.					

LM Start	<b>5.12</b>	Rating **	M	Issue No.	<b>6 (cont)</b>
LM End	<b>5.20</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP\_2018\_NA0010\_138\_6\_20180307\_00003.jpg



Looking southeast at livestock erosion on waterward toe.

Photo 2 of 2 : SP\_2018\_NA0010\_138\_6\_20180307\_00004.jpg



Looking northwest at livestock erosion along waterside slope and toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	30
LM End	10.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.774437 °	36.814780 °
				-120.283750 °	-120.168792 °
DWR ID	DWR_NA0010_23_s_2018_30				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_139\_30\_20180411\_00055.jpg



Looking upstream at typical view of landward slope. (Spring 2018)

LM Start	0.00	Rating **	M	Issue No.	33
LM End	10.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.774437 °	36.814783 °
				-120.283750 °	-120.168789 °
DWR ID	DWR_NA0010_23_s_2018_33				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_139\_33\_20180411\_00056.jpg



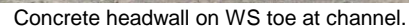
Looking upstream at typical view of waterward slope. (Spring 2018)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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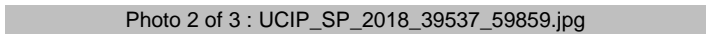
## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

Photo 1 of 3 : UCIP\_SP\_2018\_39537\_59860.jpg



LM Start	<b>0.21</b>	Rating **	M	Issue No.	<b>39 (cont)</b>
LM End	<b>0.21</b>	Issue Type +	Ma	Location *	



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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	0.21	Rating **	M	Issue No.	39 (cont)	
LM End	0.21	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			36.772713 °	36.772713 °	
				-120.280670 °	-120.280670 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39537						
DS_ID:19945						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Excessive vegetation at inlet--recommend clearing.						
FIELD_STRUCT_DESC: 30-inch by 30-inch square reinforced concrete						
box gravity drainage culvert through the levee, 13 feet below the crown.						
Flap gate on the waterside (WS) end. Concrete headwall on the						
landside (LS) end. Concrete U-shaped headwall on the WS end. (Plans						
to construct a new discharge structure and to rehabilitate one existing						
diversion structure to return intercepted seepage to the San Joaquin						
River authorized under Permit No. 13085, 1981 - Diener, Dry River						
Farms). [Additional Reference(s): DWR Levee Log, 2002. USACE San						
Joaquin O&M Manual 601.1, 1967, (HLM 0.21)].						
FS Date: 4/3/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39537\_59861.jpg



Concrete headwall at LS toe. Excess vegetation buildup at inlet.

LM Start	1.07	Rating **	U	Issue No.	27
LM End	1.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.772726 °	36.772884 °
				-120.267276 °	-120.265736 °
DWR ID	DWR_NA0010_23_f_2017_27				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
LMA mowed at toe of levee, but due to dense vegetation unable to see landside slope with limited visibility of toe.					

Photo 1 of 1 : SP\_2018\_NA0010\_139\_27\_20180307\_00023.jpg



Looking east at landside slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	1.09	Rating **	U	Issue No.	26
LM End	1.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.772743 °	36.772743 °
				-120.266800 °	-120.266800 °
DWR ID	DWR_NA0010_23_f_2017_26				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Need to repair large rodent hole					

Photo 1 of 1 : SP\_2018\_NA0010\_139\_26\_20180307\_00022.jpg



Looking at the landside slope.

LM Start	1.21	Rating **	M	Issue No.	6
LM End	1.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.772973 °	36.772973 °
				-120.264768 °	-120.264768 °
DWR ID	DWR_NA0010_23_s_2013_6				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Control growth of elderberry on landside toe.					

No Photos

LM Start	1.52	Rating **	M	Issue No.	28
LM End	1.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.772066 °	36.772066 °
				-120.259545 °	-120.259545 °
DWR ID	DWR_NA0010_23_f_2017_28				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree limbs on landside slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_139\_28\_20180307\_00024.jpg



Looking north at landside slope.

**\* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	1.87	Rating **	M	Issue No.	22
LM End	1.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			36.772373 °	36.772373 °
				-120.253843 °	-120.253843 °
DWR ID	DWR_NA0010_23_f_2016_22				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	1.91	Rating **	U	Issue No.	1
LM End	1.91	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.772943 °	36.772943 °
				-120.253511 °	-120.253511 °
DWR ID	DWR_NA0010_23_s_2015_1				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree on waterside slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_139\_1\_20180307\_00001.jpg



Looking east at waterside slope.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	2.12	Rating **	M	Issue No.	16
LM End	2.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			36.775507 °	36.775507 °
				-120.251672 °	-120.251670 °
DWR ID	DWR_NA0010_23_s _ 2013_16				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Several damaged sites within this reach. Damage caused by vehicle traffic. At. LM. 2.12, 2.21, 2.37, 2.41, & 2.47					

Photo 1 of 1 : SP\_2018\_NA0010\_139\_16\_20180307\_00017.jpg



Looking west at one of several slope damaged cause by vehicle traffic.

LM Start	2.21	Rating **	M	Issue No.	35	
LM End	2.21	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Slope Stability				°	
					°	
DWR ID	DWR_NA0010_23_s _ 2018_35					
Comment Code						
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.						
Inspector Comment						

No Photos

LM Start	2.37	Rating **	M	Issue No.	36	
LM End	2.37	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability				o	
					o	
DWR ID	DWR_NA0010_23_s _ 2018_36					
Comment Code						
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.						
Inspector Comment						

No Photos

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



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	<b>2.41</b>	Rating **	M	Issue No.	<b>37</b>
LM End	<b>2.41</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability			°	°
				°	°
DWR ID	DWR_NA0010_23_s _ 2018_37				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	<b>2.47</b>	Rating **	M	Issue No.	<b>38</b>
LM End	<b>2.47</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability			°	°
				°	°
DWR ID	DWR_NA0010_23_s _ 2018_38				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	2.48	Rating **	M	Issue No.	31
LM End	2.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			36.773596 °	36.773596 °
				-120.246523 °	-120.246523 °
DWR ID	DWR_NA0010_23_f_2017_31				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	2.85	Rating **	U	Issue No.	15
LM End	2.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.771537 °	36.771537 °
				-120.240917 °	-120.240917 °
DWR ID	DWR_NA0010_23_s_2012_15				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Control growth of elderberry bush on landside toe.					

No Photos

LM Start	3.30	Rating **	U	Issue No.	3
LM End	3.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.774403 °	36.774403 °
				-120.234705 °	-120.234705 °
DWR ID	DWR_NA0010_23_s_2012_3				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Control growth of elderberry on landside toe.					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	3.45	Rating **	M	Issue No.	9
LM End	3.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.776537 °	36.776537 °
				-120.234573 °	-120.234573 °
DWR ID	DWR_NA0010_23_s _ 2012_9				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Control growth of elderberry on landside toe and berm.					

No Photos

LM Start	4.13	Rating **	M	Issue No.	34
LM End	4.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.784217 °	36.784217 °
				-120.228876 °	-120.228876 °
DWR ID	DWR_NA0010_23_s _ 2018_34				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	4.13	Rating **	U	Issue No.	10
LM End	4.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.784212 °	36.784212 °
				-120.228815 °	-120.228815 °
DWR ID	DWR_NA0010_23_s_2012_10				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Control growth of elderberry on landside toe.					

No Photos

LM Start	4.45	Rating **	M	Issue No.	11
LM End	4.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.784523 °	36.784523 °
				-120.223292 °	-120.223292 °
DWR ID	DWR_NA0010_23_s_2012_11				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Control growth of elderberry on landside toe and berm.					

No Photos

LM Start	5.68	Rating **	U	Issue No.	5
LM End	5.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.791981 °	36.791981 °
				-120.206274 °	-120.206274 °
DWR ID	DWR_NA0010_23_s_2012_5				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several large rodent holes in this area.					

Photo 1 of 1 : SP\_2018\_NA0010\_139\_5\_20180307\_00006.jpg



Looking at several rodent holes on landside slope.

**\* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	<b>5.68</b>	Rating **	M	Issue No.	<b>43</b>
LM End	<b>5.68</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		36.791936 °	36.791936 °	
			-120.206226 °	-120.206226 °	
DWR ID					

Comment Code

Inspector Comment

FS\_ID:39542  
DS\_ID:19954  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 36-inch by 36-inch square reinforced concrete box gravity drainage culvert through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on each end. 5-foot-long cobble revetted outlet channel. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.71)].  
FS Date: 4/3/2014

LM Start	<b>5.68</b>	Rating **	M	Issue No.	<b>43 (cont)</b>
LM End	<b>5.68</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39542\_59830.jpg



Concrete headwall on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39542\_59829.jpg



Flapgate on Concrete headwall on WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	5.68	Rating **	M	Issue No.	43 (cont)	
LM End	5.68	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			36.791936 °		36.791936 °
				-120.206226 °		-120.206226 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39542 DS_ID:19954 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 36-inch by 36-inch square reinforced concrete box gravity drainage culvert through the levee, 9 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on each end. 5-foot-long cobble revetted outlet channel. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 5.71)]. FS Date: 4/3/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39542\_59831.jpg



Concrete headwall at LS toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	8.32	Rating **	M	Issue No.	45
LM End	8.32	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.792476 °	36.792476 °
				-120.181255 °	-120.181255 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:39544  
DS\_ID:19940  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Some sediment buildup at inlet at LS toe. Also dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.  
FIELD\_STRUCT\_DESC: 30-inch by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 5.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.  
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.33)].  
FS Date: 4/3/2014

LM Start	<b>8.32</b>	Rating **	M	Issue No.	<b>45 (cont)</b>
LM End	<b>8.32</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39544\_59823.jpg



Flapgate on WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_39544\_59821.jpg



concrete headwall at drainage ditch on WS toe.

* 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 : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	8.32	Rating **	M	Issue No.	45 (cont)
LM End	8.32	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.792476 °	36.792476 °
				-120.181255 °	-120.181255 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39544					
DS_ID:19940					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Some sediment buildup at inlet at LS toe. Also dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 30-inch by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 5.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.					
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.33)].					
FS Date: 4/3/2014					

Photo 3 of 3 : UCIP\_SP\_2018\_39544\_59822.jpg



Concrete headwall on LS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	8.52	Rating **	M	Issue No.	46
LM End	8.52	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.794108 °	36.794108 °
				-120.178171 °	-120.178171 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39545					
DS_ID:19941					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.					
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.					
FIELD_STRUCT_DESC: 30-inch by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 5.6 feet below the crown.					
Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.					
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.54)].					
FS Date: 4/3/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_39545\_59817.jpg



Concrete headwall on WS toe.

LM Start	<b>8.52</b>	Rating **	M	Issue No.	<b>46 (cont)</b>
LM End	<b>8.52</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_39545\_59819.jpg



Flapgate on Concrete headwall at WS toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	8.52	Rating **	M	Issue No.	46 (cont)	
LM End	8.52	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			36.794108 °	36.794108 °	
				-120.178171 °	-120.178171 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39545						
DS_ID:19941						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope.						
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: 30-inch by 30-inch square reinforced concrete box gravity drainage culvert through the levee, 5.6 feet below the crown.						
Flap gate on the waterside (WS) end. Concrete headwall on the landside (LS) end. Concrete U-shaped headwall on the WS end.						
[Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.54)].						
FS Date: 4/3/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39545\_59818.jpg



Concrete headwall on LS toe.

LM Start	8.97	Rating **	U	Issue No.	25
LM End	8.97	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.799606 °	36.799606 °
				-120.175395 °	-120.175395 °
DWR ID	DWR_NA0010_23_f_2016_25				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes on waterside shoulder.					

Photo 1 of 1 : SP\_2018\_NA0010\_139\_25\_20180307\_00021.jpg



Looking at typical view of rodent hole on waterward shoulder.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	04/05/2018 04/05/2018	Richard Willoughby

LM Start	<b>9.19</b>	Rating **	M	Issue No.	<b>32</b>
LM End	<b>9.25</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		36.802456°	36.803233°	
			-120.173675°	-120.173162°	
DWR ID	DWR_NA0010_23_f_2017_32				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

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

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

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	21
LM End	8.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.773168 °	36.778322 °
				-120.285227 °	-120.184002 °
DWR ID	DWR_NA0010_24_s _ 2018_21				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	22
LM End	8.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.773168 °	36.778322 °
				-120.285227 °	-120.184002 °
DWR ID	DWR_NA0010_24_s _ 2018_22				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	0.43	Rating **	M	Issue No.	20
LM End	0.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			36.767759 °	36.767759 °
				-120.283559 °	-120.283559 °
DWR ID	DWR_NA0010_24_f_2017_20				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree limb on waterside.					

No Photos

LM Start	0.82	Rating **	M	Issue No.	6
LM End	0.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.766775 °	36.766962 °
				-120.278757 °	-120.278602 °
DWR ID	DWR_NA0010_24_s_2013_6				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes identified within this section.					

Photo 1 of 1 : SP\_2018\_NA0010\_140\_6\_20180307\_00003.jpg



Looking at several rodent holes on landward slope.

LM Start	1.75	Rating **	M	Issue No.	23
LM End	1.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.771119 °	36.771119 °
				-120.266173 °	-120.266173 °
DWR ID	DWR_NA0010_24_s_2018_23				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	2.07	Rating **	U	Issue No.	19
LM End	2.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			36.770778 °	36.770293 °
				-120.260848 °	-120.259840 °
DWR ID	DWR_NA0010_24_f_2017_19				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
LMA mowed landside toe, however dense vegetation on slope limits visibility.					

Photo 1 of 1 : SP\_2018\_NA0010\_140\_19\_20180307\_00008.jpg



Looking northwest at landside slope.

LM Start	2.83	Rating **	M	Issue No.	18
LM End	2.83	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			36.772188 °	36.772188 °
				-120.248702 °	-120.248702 °
DWR ID	DWR_NA0010_24_f_2017_18				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

No Photos

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	3.46	Rating **	M	Issue No.	7
LM End	3.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			36.769345 °	36.769345 °
				-120.238370 °	-120.238370 °
DWR ID	DWR_NA0010_24_s_2012_7				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
One of several rodent holes on landside slope.					

Photo 1 of 1 : SP\_2018\_NA0010\_140\_7\_20180307\_00004.jpg



Looking east at one of several rodent holes on landward slope.

LM Start	4.27	Rating **	M	Issue No.	17
LM End	4.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			36.772003 °	36.772003 °
				-120.230075 °	-120.230075 °
DWR ID	DWR_NA0010_24_f_2017_17				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_140\_17\_20180307\_00007.jpg



Looking southeast at the landside slope.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	04/17/2018 04/17/2018	Richard Willoughby

LM Start	6.35	Rating **	M	Issue No.	14 (cont)	
LM End	6.35	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			36.788225 °		36.788225 °
				-120.209357 °		-120.209357 °
DWR ID	DWR_NA0010_24_s_2017_14					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
Several rodent holes on levee landside shoulder and slope.						

Photo 2 of 2 : SP\_2018\_NA0010\_140\_14\_20180307\_00006.jpg



Looking at typical view of rodent holes within this section on landward shoulder and slope.

LM Start	8.33	Rating **	M	Issue No.	273
LM End	8.33	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			36.778084 °	36.778084 °
				-120.184454 °	-120.184454 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33272					
DS_ID:19960					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Barbed wire along levee shoulder--no access. Need to confirm crossing size and condition of crossing.					
FIELD_STRUCT_DESC: 12-inch reinforced concrete gravity drainage pipe through the levee, 3 feet below the crown. Flap gate on the waterside (WS) end. Concrete headwall on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 8.32)].					
FS Date: 4/8/2014					

Photo 1 of 2 : UCIP\_SP\_2018\_33272\_60121.jpg



View of waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.00	Rating **	U	Issue No.	7
LM End	1.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296261 °	37.281769 °
				-120.880678 °	-120.880745 °
DWR ID	DWR_NA0010_25_f_2015_7				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : SP\_2018\_NA0010\_141\_7\_20180307\_00001.jpg



Looking south at the landside slope.

LM Start	<b>0.00</b>	Rating **	U	Issue No.	<b>7 (cont)</b>
LM End	<b>1.00</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2018\_NA0010\_141\_7\_20180307\_00002.jpg



Looking at typical view of landward slope.

LM Start	0.00	Rating **	M	Issue No.	9
LM End	1.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296261 °	37.281768 °
				-120.880678 °	-120.880745 °
DWR ID	DWR_NA0010_25_f_2015_9				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : SP\_2018\_NA0010\_141\_9\_20180307\_00005.jpg



Looking south at the waterside slope.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	9 (cont)	
LM End	1.00	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.296261 °		37.281768 °
				-120.880678 °		-120.880745 °
DWR ID	DWR_NA0010_25_f_2015_9					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						

Photo 2 of 2 : SP\_2018\_NA0010\_141\_9\_20180307\_00006.jpg



Looking typical view of waterward slope.

LM Start	0.00	Rating **	M	Issue No.	8
LM End	1.76	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.296259 °	37.281615 °
				-120.880677 °	-120.867133 °
DWR ID	DWR_NA0010_25_s_2012_8				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Control weeds on levee crown.					

Photo 1 of 2 : SP\_2018\_NA0010\_141\_8\_20180307\_00003.jpg



Looking south at the levee crown.

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>8 (cont)</b>
LM End	<b>1.76</b>	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : SP\_2018\_NA0010\_141\_8\_20180307\_00004.jpg



Looking at typical view of levee crown.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	<b>0.02</b>	Rating **	M	Issue No.	<b>14</b>
LM End	<b>0.02</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		37.296038 °	37.296038 °	
			-120.880742 °	-120.880742 °	
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:39501  
DS\_ID:19965  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend clearing.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.02)].  
FS Date: 5/1/2014

LM Start	<b>0.02</b>	Rating **	M	Issue No.	<b>14 (cont)</b>
LM End	<b>0.02</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_39501\_67242.jpg



View of waterward side--dense vegetation on waterward side.

Photo 2 of 3 : UCIP\_SP\_2018\_39501\_67240.jpg



Pipe daylight visible on waterward toe.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.02	Rating **	M	Issue No.	14 (cont)	
LM End	0.02	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.296038 °	37.296038 °	
				-120.880742 °	-120.880742 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39501 DS_ID:19965 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible from landward side--recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 10 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.02)]. FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_39501\_67241.jpg



View of landward side--dense vegetation on landward side.

LM Start	0.36	Rating **	M	Issue No.	15
LM End	0.36	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.291173 °	37.291173 °
				-120.880731 °	-120.880731 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36851 DS_ID:19966 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.6 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.35)]. FS Date: 5/1/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36851\_67249.jpg



View of waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.36	Rating **	M	Issue No.	15 (cont)	
LM End	0.36	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.291173 °	37.291173 °	
				-120.880731 °	-120.880731 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36851 DS_ID:19966 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.6 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.35)]. FS Date: 5/1/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_36851\_67248.jpg



Pipe outlet visible on waterward side.

LM Start	<b>0.36</b>	Rating **	M	Issue No.	<b>15 (cont)</b>
LM End	<b>0.36</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_36851\_67247.jpg



View of landward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.59	Rating **	M	Issue No.	16
LM End	0.59	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.287744 °	37.287744 °
				-120.880645 °	-120.880645 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36852 DS_ID:19967 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 14.7 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.59)]. FS Date: 5/1/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36852\_67250.jpg



Overview of waterward side--Salt Slough.

LM Start	<b>0.59</b>	Rating **	M	Issue No.	<b>16 (cont)</b>
LM End	<b>0.59</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36852\_67251.jpg



View of waterward slope covered by dense vegetation.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.59	Rating **	M	Issue No.	16 (cont)	
LM End	0.59	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.287744 °	37.287744 °	
				-120.880645 °	-120.880645 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36852 DS_ID:19967 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 14.7 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.59)]. FS Date: 5/1/2014						

Photo 3 of 3 : UCIP\_SP\_2018\_36852\_67252.jpg



Pipe and flap gate visible on waterward side.

LM Start	0.97	Rating **	M	Issue No.	17	
LM End	0.97	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.282252 °		37.282252 °
				-120.880738 °		-120.880738 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36853 DS_ID:19968 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.4 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.97)]. FS Date: 5/1/2014						

Photo 1 of 3 : UCIP\_SP\_2018\_36853\_67256.jpg



View of waterward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	0.97	Rating **	M	Issue No.	17 (cont)	
LM End	0.97	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.282252 °	37.282252 °	
				-120.880738 °	-120.880738 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36853 DS_ID:19968 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.4 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 0.97)]. FS Date: 5/1/2014						

LM Start	<b>0.97</b>	Rating **	M	Issue No.	<b>17 (cont)</b>
LM End	<b>0.97</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_36853\_67255.jpg



Pipe and evidence of flap gate visible on waterward side.

Photo 3 of 3 : UCIP\_SP\_2018\_36853\_67254.jpg



View of landward side.

<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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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.00	Rating **	M	Issue No.	13
LM End	1.75	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.281791 °	37.281676 °
				-120.880747 °	-120.867253 °
DWR ID	DWR_NA0010_25_s_2018_13				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					

No Photos

LM Start	1.00	Rating **	M	Issue No.	11
LM End	2.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.281791 °	37.271073 °
				-120.880747 °	-120.866562 °
DWR ID	DWR_NA0010_25_s_2018_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_141\_11\_20180419\_00025.jpg



Looking northeast at typical view of waterward slope. (Spring 2018)

LM Start	1.00	Rating **	M	Issue No.	10
LM End	2.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.281791 °	37.271073 °
				-120.880746 °	-120.866562 °
DWR ID	DWR_NA0010_25_s_2018_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_141\_10\_20180419\_00026.jpg



Looking north at typical view of landward slope. (Spring 2018)

**\* 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**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	1.75	Rating **	U	Issue No.	12
LM End	2.49	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.281677 °	37.271073 °
				-120.867254 °	-120.866562 °
DWR ID	DWR_NA0010_25_s_2018_12				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_NA0010\_141\_12\_20180419\_00027.jpg



Looking east at typical view of levee crown. (Spring 2018)

LM Start	2.05	Rating **	M	Issue No.	18
LM End	2.05	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.277390 °	37.277390 °
				-120.867184 °	-120.867184 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:36854 DS_ID:19969 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 4 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.05)]. FS Date: 5/1/2014					

Photo 1 of 3 : UCIP\_SP\_2018\_36854\_67259.jpg



View of landward side.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	2.05	Rating **	M	Issue No.	18 (cont)	
LM End	2.05	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.277390 °		37.277390 °
				-120.867184 °		-120.867184 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:36854 DS_ID:19969 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 4 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.05)]. FS Date: 5/1/2014						

Photo 2 of 3 : UCIP\_SP\_2018\_36854\_67260.jpg



View of waterward side.

LM Start	<b>2.05</b>	Rating **	M	Issue No.	<b>18 (cont)</b>
LM End	<b>2.05</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_36854\_67261.jpg



Flap gate and concrete headwall located on waterward toe.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	04/16/2018 04/16/2018	Richard Willoughby

LM Start	2.45	Rating **	M	Issue No.	19 (cont)	
LM End	2.45	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.271599 °		37.271599 °
				-120.866819 °		-120.866819 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39502 DS_ID:19970 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspectors visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. Sediment buildup in pipe visible on landward side-- recommend clearing. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE San Joaquin O&M Manual 601.1, 1967, (HLM 2.45)]. FS Date: 5/1/2014 4:04:00 PM						

Photo 3 of 3 : UCIP\_SP\_2018\_39502\_67268.jpg



View of landward side.

<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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