

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	03/24/2020 03/24/2020	Alberto De Leon

LM Start		Rating **	A	Issue No.	1
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD2096_01_s_2013_1				
Comment Code					
Inspector Comment					
O&M Manual is at the LMA's office.					

No Photos

LM Start		Rating **	A	Issue No.	2
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD2096_01_s_2013_2				
Comment Code					
Inspector Comment					
Emergency supplies available.					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD2096_01_s_2013_4				
Comment Code					
Inspector Comment					
LMA has a flood response plan in the office. It is recommended that the LMA and interested local volunteers take a flood fight training class in order to refresh their flood fight skills and methods.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Right	0.16	03/24/2020 03/24/2020	Alberto De Leon

LM Start	0.02	Rating **	A/W	Issue No.	15	
LM End	0.02	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.773852 °	37.773852 °	
				-121.298413 °	-121.298413 °	
DWR ID	22737					
Comment Code						
Inspector Comment						
DS_ID:22737 FS_ID:21505 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/17/2019 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) 09/10/2013 - steel walkway to pump platform.- pumping plant and navigation structure area is fenced with gates at north and south end. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 1 of 3: 36-inch drainage discharge pipe of an unknown material through the levee, 3.5 feet below the crown. One concrete cutoff wall. Automatic pumping plant and concrete sump on the landside (LS). Vent pipes on the waterside (WS) shoulder. Concrete headwall and spill box on the WS. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 0.03)]. FS Date: 9/10/2013						

LM Start	0.02	Rating **	A/W	Issue No.	15 (cont)
LM End	0.02	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2020_21505_36449.jpg



WS view: three wooden flap gates for drainage pipes. Concrete headwall at levee slope end.

Photo 2 of 3 : UCIP_SP_2020_21505_36448.jpg



WS view: three air vents for three drainage pipes on levee shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Right	0.16	03/24/2020 03/24/2020	Alberto De Leon

LM Start	0.02	Rating **	A/W	Issue No.	15 (cont)
LM End	0.02	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		37.773852 °	37.773852 °	
			-121.298413 °	-121.298413 °	
DWR ID	22737				

Photo 3 of 3 : UCIP_SP_2020_21505_36447.jpg



LS view: automatic pumping plant with three pumps. Steel walkway to pump platform.

LM Start	0.02	Rating **	A/W	Issue No.	16
LM End	0.02	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		37.773835 °	37.773835 °	
			-121.298419 °	-121.298419 °	
DWR ID	22740				

Comment Code

Inspector Comment

DS_ID:22740
 FS_ID:21507
 EP_NO: N/A
 Repair Type: No Action Needed
 Crossing Status: Found
 UCIP Comments: 10/17/2019 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)
 09/10/2013 - steel walkway to pump platform.- pumping plant and navigation structure area is fenced with gates at north and south end. (P. Amatya - DWR UCIP)
 FIELD_STRUCT_DESC: 2 of 3: 36-inch drainage discharge pipe of an unknown material through the levee, 3.5 feet below the crown. One concrete cutoff wall. Automatic pumping plant and concrete sump on the landside (LS). Vent pipes on the waterside (WS) shoulder. Concrete headwall and spill box on the WS. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 0.03)].
 FS Date: 9/10/2013

Photo 1 of 3 : UCIP_SP_2020_21507_36456.jpg



WS view: three wooden flap gates for drainage pipes. Concrete headwall at levee slope end.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	03/24/2020 03/24/2020	Alberto De Leon

LM Start	0.02	Rating **	A/W	Issue No.	16 (cont)	
LM End	0.02	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.773835 °	37.773835 °	
				-121.298419 °	-121.298419 °	
DWR ID	22740					

Photo 2 of 3 : UCIP_SP_2020_21507_36455.jpg



WS view: three air vents for three drainage pipes on levee shoulder.

LM Start	0.02	Rating **	A/W	Issue No.	16 (cont)
LM End	0.02	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_21507_36454.jpg



LS view: automatic pumping plant with three pumps. Steel walkway to pump platform.

* 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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Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	03/24/2020 03/24/2020	Alberto De Leon

LM Start	0.03	Rating **	A/W	Issue No.	17	
LM End	0.03	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.773818 °	37.773818 °	
				-121.298423 °	-121.298423 °	
DWR ID	22739					
Comment Code						
Inspector Comment						
DS_ID:22739 FS_ID:21508 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/17/2019 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) 09/10/2013 - steel walkway to pump platform.- pumping plant and navigation structure area is fenced with gates at north and south end. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 3 of 3: 36-inch drainage discharge pipe of an unknown material through the levee, 3.5 feet below the crown. One concrete cutoff wall. Automatic pumping plant and concrete sump on the landside (LS). Vent pipes on the waterside (WS) shoulder. Concrete headwall and spill box on the WS. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 0.03)]. FS Date: 9/10/2013						

LM Start	0.03	Rating **	A/W	Issue No.	17 (cont)
LM End	0.03	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2020_21508_36463.jpg



WS view: three wooden flap gates for drainage pipes. Concrete headwall at levee slope end.

Photo 2 of 3 : UCIP_SP_2020_21508_36460.jpg



WS view: three air vents for three drainage pipes on levee shoulder.

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Unit No. 01 San Joaquin River	Right	0.16	03/24/2020 03/24/2020	Alberto De Leon

LM Start	0.09	Rating **	A/W	Issue No.	6
LM End	0.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.772891 °	37.772891 °
				-121.298454 °	-121.298454 °
DWR ID	DWR_RD2096_01_s_2016_6				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
The LMA has an effective rodent control program. Monitor this location for possible future activity.					

Photo 1 of 1 : SP_2020_RD2096_117_6_20200228_00001.jpg



View of the previously rodent infested area on the landside levee slope.

LM Start	0.12	Rating **	M	Issue No.	11
LM End	0.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.772434 °	37.772434 °
				-121.298433 °	-121.298433 °
DWR ID	DWR_RD2096_01_s_2015_11				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Waterside slope has rills/ruts caused by pedestrian and motorcycle traffic. The LMA is working with land owner to restrict access. Recommend slope be graded and restored to design standards.					

Photo 1 of 2 : SP_2020_RD2096_117_11_20200228_00004.jpg



View of waterside slope depressions caused by motorcycle and/or pedestrian traffic. Fall 2019

LM Start	0.12	Rating **	M	Issue No.	11 (cont)
LM End	0.12	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2020_RD2096_117_11_20200228_00005.jpg



View of waterside slope depressions caused by motorcycle and/or pedestrian traffic. Fall 2019

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Unit No. 01 San Joaquin River	Right	0.16	03/24/2020 03/24/2020	Alberto De Leon

LM Start	0.12	Rating **	A	Issue No.	14
LM End	0.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.772387 °	37.772387 °
				-121.298437 °	-121.298437 °
DWR ID	DWR_RD2096_01_s_2020_14				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2020_RD2096_117_14_20200324_00018.jpg



Typical view of well maintained vegetation on waterside slope. Spring 2020

LM Start	0.12	Rating **	A	Issue No.	12
LM End	0.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.772386 °	37.772386 °
				-121.298432 °	-121.298432 °
DWR ID	DWR_RD2096_01_s_2020_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2020_RD2096_117_12_20200324_00019.jpg



Typical view of well maintained vegetation on landside slope. Spring 2020

*** 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