

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2096 Wetherbee Lake

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	04/11/2017 04/11/2017	Maksim Khashchuk

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

* 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	04/11/2017 04/11/2017	Maksim Khashchuk

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

LM Start	0.02	Rating **	A/W	Issue No.	15
LM End	0.02	Issue Type +	Ma	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.773852 °	37.773852 °
				-121.298413 °	-121.298413 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21505					
DS_ID:22737					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments: - steel walkway to pump platform.- pumping plant and navigation structure area is fenced with gates at north and south end.					
FIELD_STRUCT_DESC: 1 of 3. Three 36-inch pipes through levee, 3.5 feet below the crown. Automatic pumping plant and concrete sump on the landward side. Vent pipes on the waterward shoulder. Concrete headwall and spillbox on the waterward side. Flap gate on the waterward end. O&M Manual, December 1968.					
FS Date: 9/10/2013					

Photo 1 of 3 : UCIP_SP_2017_21505_36449.jpg



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

* 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	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start	0.02	Rating **	A/W	Issue No.	15 (cont)
LM End	0.02	Issue Type +	Ma	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.773852 °	37.773852 °
				-121.298413 °	-121.298413 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21505 DS_ID:22737 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: - steel walkway to pump platform.- pumping plant and navigation structure area is fenced with gates at north and south end. FIELD_STRUCT_DESC: 1 of 3. Three 36-inch pipes through levee, 3.5 feet below the crown. Automatic pumping plant and concrete sump on the landward side. Vent pipes on the waterward shoulder. Concrete headwall and spillbox on the waterward side. Flap gate on the waterward end. O&M Manual, December 1968. FS Date: 9/10/2013					

A photograph showing a man in a maroon shirt and khaki shorts standing on a gravel path. To his left is a large, open metal structure that looks like a gate or a large container. The background features a grassy hillside with some trees and a clear blue sky.

A photograph of a bridge structure over a river. The bridge deck is made of metal grating. Three red bounding boxes are drawn on the image, highlighting specific components of the bridge deck. The first box is on the left side of the deck, the second is in the center, and the third is on the right side. The background shows a river and some trees.

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

* 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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	04/11/2017 04/11/2017	Maksim Khashchuk

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

Comment Code

[illegible]

Inspector Comment

FS_ID:21507
DS_ID:22740
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: - steel walkway to pump platform.- pumping plant and navigation structure area is fenced with gates at north and south end.
FIELD_STRUCT_DESC: 3 of 3. Three 36-inch pipes through levee, 3.5 feet below the crown. Automatic pumping plant and concrete sump on the landward side. Vent pipes on the waterward shoulder. Concrete headwall and spillbox on the waterward side. Flap gate on the waterward end. O&M Manual, December 1968.
FS Date: 9/10/2013

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

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

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

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start	0.03	Rating **	A/W	Issue No.	17 (cont)
LM End	0.03	Issue Type +	Ma	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.773818 °	37.773818 °
				-121.298423 °	-121.298423 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21508					
DS_ID:22739					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments: - steel walkway to pump platform.- pumping plant and navigation structure area is fenced with gates at north and south end.					
FIELD_STRUCT_DESC: 2 of 3. Three 36-inch pipes through levee, 3.5 feet below the crown, one concrete cutoff wall. Automatic pumping plant and concrete sump on the landward side. Vent pipes on the waterward shoulder. Concrete headwall and spillbox on the waterward side. Flap gate on the waterward end. O&M Manual, December 1968.					
FS Date: 9/10/2013					

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

Photo 2 of 3 : UCIP_SP_2017_21508_36460.jpg



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

Photo 3 of 3 : UCIP_SP_2017_21508_36461.jpg



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

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	0.16	04/11/2017 04/11/2017	Maksim Khashchuk

LM Start	0.06	Rating **	N	Issue No.	9
LM End	0.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.773348 °	37.773348 °
				-121.298475 °	-121.298475 °
DWR ID	DWR_RD2096_01_s_2014_9				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Pine tree stump at levee toe.					

Photo 1 of 1 : SP_2017_RD2096_117_9_20170407_00004.jpg



View of the tree stump at the landside levee toe.

LM Start	0.09	Rating **	A	Issue No.	14
LM End	0.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.772896 °	37.772896 °
				-121.298474 °	-121.298474 °
DWR ID	DWR_RD2096_01_s_2017_14				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Acceptable vegetation control on the levee slope.					

Photo 1 of 1 : SP_2017_RD2096_117_14_20170417_00020.jpg



View of the acceptable vegetation on the levee slope.

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					
LMA has effective rodent control program. Monitor this location for possible future activity.					

Photo 1 of 1 : SP_2017_RD2096_117_6_20170407_00002.jpg



View of the rodent hole on the landside levee slope.

* 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	

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Unit No. 01 San Joaquin River	Right	0.16	04/11/2017 04/11/2017	Maksim Khashchuk

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					
Regrade and re-compact damaged waterside levee slope.					

Photo 1 of 3 : SP_2017_RD2096_117_11_20170407_00005.jpg



View of the waterside slope damaged by vehicle.

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

Photo 2 of 3 : SP_2017_RD2096_117_11_20170407_00006.jpg



View of the vehicle tracks eroding the waterside levee slope.

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

Photo 3 of 3 : SP_2017_RD2096_117_11_20170407_00007.jpg



Another view of the vehicle tracks on the waterside levee 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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