

**Flood Control Project Maintenance
Levee Inspections**

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

Reclamation District No. 2064 River Junction

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	5.56	10/12/2017 10/12/2017	Keith Millard

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				
DWR ID	DWR_RD2064_01_f_2014_6				
Comment Code					
Inspector Comment					
District 2064 has the O&M Manual on hand.					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				
DWR ID	DWR_RD2064_01_f_2014_7				
Comment Code					
Inspector Comment					
District has an adequate supply of flood fight materials in storage.					

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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

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

Reclamation District No. 2064 River Junction

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	5.56	10/12/2017 10/12/2017	Keith Millard

LM Start		Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_RD2064_01_f_2014_8				
Comment Code					
Inspector Comment					
District 2064 has been trained for flood fighting.					

No Photos

LM Start	0.06	Rating **	A/W	Issue No.	31
LM End	0.06	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		37.709804 °	37.709804 °	
			-121.267559 °	-121.267559 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43603 DS_ID:20511 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: Debris removed from flap gate on waterside tow FIELD_STRUCT_DESC: 36-inch by 36-inch reinforced concrete box drainage culvert through the levee, 21 feet below the crown. Concrete U-shaped headwalls on both ends. Slide gate in a 6-foot by 7-foot concrete riser on the waterside (WS) slope. Flap gate on the WS end. Flashboard slots on the landside (LS) headwall. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 0.07)]. FS Date: 3/2/2015					

Photo 1 of 3 : UCIP_FA_2017_43603_31258.jpg



Slide gate in concrete riser on WS shoulder.

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

**Flood Control Project Maintenance
Levee Inspections**

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

Reclamation District No. 2064 River Junction

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	5.56	10/12/2017 10/12/2017	Keith Millard

LM Start	0.06	Rating **	A/W	Issue No.	31 (cont)	
LM End	0.06	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.709804 °	37.709804 °	
				-121.267559 °	-121.267559 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:43603						
DS_ID:20511						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: Debri removed from flap gate on waterside tow						
FIELD_STRUCT_DESC: 36-inch by 36-inch reinforced concrete box						
drainage culvert through the levee, 21 feet below the crown. Concrete U-						
shaped headwalls on both ends. Slide gate in a 6-foot by 7-foot						
concrete riser on the waterside (WS) slope. Flap gate on the WS end.						
Flashboard slots on the landside (LS) headwall. [Additional						
Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M						
Manual 3, December 1968, (HLM 0.07)].						
FS Date: 3/2/2015						

LM Start	0.06	Rating **	A/W	Issue No.	31 (cont)
LM End	0.06	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2017_43603_31257.jpg



Flap gate and U shaped headwall on WS toe. Debris blocking closure of gate.

Photo 3 of 3 : UCIP_FA_2017_43603_31256.jpg



Concrete headwall at inlet 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 - Fall 2017

Reclamation District No. 2064 River Junction

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	5.56	10/12/2017 10/12/2017	Keith Millard

LM Start	1.65	Rating **	A/W	Issue No.	37
LM End	1.65	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.690072 °	37.690072 °
				-121.269823 °	-121.269823 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18748 DS_ID:20514 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box drainage culvert through the levee, 15 feet below the crown. Slide gate in a concrete riser on the waterside (WS) shoulder. Concrete U-shaped headwalls on both ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 1.65)]. FS Date: 8/27/2013					

Photo 1 of 3 : UCIP_FA_2017_18748_31380.jpg



Concrete headwall on LS toe.

LM Start	1.65	Rating **	A/W	Issue No.	37 (cont)
LM End	1.65	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2017_18748_31379.jpg



Slide gate in concrete vault on WS shoulder.

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

**Flood Control Project Maintenance
Levee Inspections**

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

Reclamation District No. 2064 River Junction

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	5.56	10/12/2017 10/12/2017	Keith Millard

LM Start	1.65	Rating **	A/W	Issue No.	37 (cont)
LM End	1.65	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.690072 °	37.690072 °
				-121.269823 °	-121.269823 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18748 DS_ID:20514 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box drainage culvert through the levee, 15 feet below the crown. Slide gate in a concrete riser on the waterside (WS) shoulder. Concrete U-shaped headwalls on both ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 1.65)]. FS Date: 8/27/2013					

Photo 3 of 3 : UCIP_FA_2017_18748_31378.jpg



Flap gate on WS toe.

LM Start	1.94	Rating **	M	Issue No.	38
LM End	1.94	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.689900 °	37.689900 °
				-121.264802 °	-121.264802 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18763 DS_ID:20515 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Culvert filled nearly to the top with soil. FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box drainage culvert through the levee, 14.7 feet below the crown. Slide gate in a concrete riser on the waterside (WS) slope. Concrete U-shaped headwalls on both ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 1.93)]. FS Date: 8/27/2013					

Photo 1 of 3 : UCIP_FA_2017_18763_31402.jpg



Slide gate in Concrete riser on WS shoulder.

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

**Flood Control Project Maintenance
Levee Inspections**

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

Reclamation District No. 2064 River Junction

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	5.56	10/12/2017 10/12/2017	Keith Millard

LM Start	3.00	Rating **	A/W	Issue No.	21
LM End	3.00	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		37.680572 °	37.680572 °	
			-121.258433 °	-121.258430 °	

DWR ID DWR_RD2064_01_f_2017_21

Comment Code

Inspector Comment

Levee Evaluation Comments

Description:

Site ID No:78

Site Designation:LMA-32

Repair Type: Erosion

Rating:Area of Concern

Field Date:6/8/2017

Notes: minor erosion on ws, not within levee prism, no action required

LM Start	3.00	Rating **	A/W	Issue No.	21 (cont)
LM End	3.00	Issue Type +	Ma	Location *	

Photo 1 of 3 : LEVAL_FA_2017_78_1322.jpg



Photo 2 of 3 : LEVAL_FA_2017_78_1323.jpg



* 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 - Fall 2017

Reclamation District No. 2064 River Junction

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	5.56	10/12/2017 10/12/2017	Keith Millard

LM Start	3.26	Rating **	A/W	Issue No.	22 (cont)
LM End	3.39	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.679100°	37.677800°
				-121.262600°	-121.264400°
DWR ID	DWR_RD2064_01_f_2017_22				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion from high water flows caused erosion scarps from 12" to 30" in height. The area of damage is approximately 400 feet in length.					
Site ID No:582					
Site Designation:LMA-488					
Repair Type: Erosion					
Rating:Serious					
Field Date:8/14/2017					
Notes:					

Photo 2 of 3 : LEVAL_FA_2017_582_4279.jpg



LM Start	3.26	Rating **	A/W	Issue No.	22 (cont)
LM End	3.39	Issue Type +	Ma	Location *	

Photo 3 of 3 : LEVAL_FA_2017_582_4283.jpg



* 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 - Fall 2017

Reclamation District No. 2064 River Junction

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	5.56	10/12/2017 10/12/2017	Keith Millard

LM Start	3.31	Rating **	M	Issue No.	10
LM End	3.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.678708 °	37.676786 °
				-121.263415 °	-121.264207 °
DWR ID	DWR_RD2064_01_f_2017_10				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Bait traps in place, but increased measures may be needed.					

Photo 1 of 1 : FA_2017_RD2064_313_10_20171020_00075.jpg



Rodent activity on landside at LM 3.34.

LM Start	3.57	Rating **	M	Issue No.	43	
LM End	3.57	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.675266 °	37.675266 °	
				-121.263421 °	-121.263421 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22732						
DS_ID:20525						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to determine if pipe was actually removed from levee.						
FIELD_STRUCT_DESC: 12-inch steel drainage pipe through the levee, at an unknown depth. Steel plate welded over the landside (LS) end at the LS toe. (Permit No. 6450, 1969 - Reclamation District No. 2064, states it was removed in 1973, but it remains visible on the LS toe).						
[Additional Reference(s): USACE San Joaquin O&M Manual 3, December 1968, (HLM 3.55)].						
FS Date: 8/27/2013						

Photo 1 of 2 : UCIP_FA_2017_22732_38465.jpg



Pipe 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 - Fall 2017

Reclamation District No. 2064 River Junction

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	5.56	10/12/2017 10/12/2017	Keith Millard

LM Start	3.57	Rating **	M	Issue No.	43 (cont)	
LM End	3.57	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.675266 °	37.675266 °	
				-121.263421 °	-121.263421 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22732 DS_ID:20525 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to determine if pipe was actually removed from levee. FIELD_STRUCT_DESC: 12-inch steel drainage pipe through the levee, at an unknown depth. Steel plate welded over the landside (LS) end at the LS toe. (Permit No. 6450, 1969 - Reclamation District No. 2064, states it was removed in 1973, but it remains visible on the LS toe). [Additional Reference(s): USACE San Joaquin O&M Manual 3, December 1968, (HLM 3.55)]. FS Date: 8/27/2013						

Photo 2 of 2 : UCIP_FA_2017_22732_38464.jpg



Pipe with welded steel plate over LS end at LS toe.

LM Start	3.79	Rating **	C	Issue No.	27
LM End	3.79	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.673273 °	37.673273 °
				-121.260333 °	-121.260333 °
DWR ID	DWR_RD2064_01_f_2015_27				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Exterminate rodents and back fill the burrows.					

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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

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

Reclamation District No. 2064 River Junction

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	5.56	10/12/2017 10/12/2017	Keith Millard

LM Start	4.25	Rating **	A/W	Issue No.	25
LM End	4.27	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		37.669750 °	37.669610 °	
			-121.253780 °	-121.253490 °	

DWR ID DWR_RD2064_01_f_2017_25

Comment Code

Inspector Comment

Levee Evaluation Comments

Description:

Site ID No:101

Site Designation:195-122

Repair Type: Stability

Rating:Area of Concern

Field Date:6/8/2017

Notes: large stability berm present, built 3/17. historic seepage in area, boils present but running clean. 10/12/17: Rock berm mitigated the boils and instability. Site is now acceptable.

LM Start	4.25	Rating **	A/W	Issue No.	25 (cont)
LM End	4.27	Issue Type +	Ma	Location *	

Photo 1 of 3 : LEVAL_FA_2017_101_1313.jpg



Photo 2 of 3 : LEVAL_FA_2017_101_1315.jpg



* 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 - Fall 2017

Reclamation District No. 2064 River Junction

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	5.56	10/12/2017 10/12/2017	Keith Millard

LM Start	4.82	Rating **	A/W	Issue No.	26 (cont)
LM End	4.85	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.671730 °	37.672140 °
				-121.246820 °	-121.246800 °
DWR ID	DWR_RD2064_01_f_2017_26				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Erosion from high water flows caused erosion scarps from 12" to 24" in height. The area of damage is approximately 600 feet in length.					
Site ID No:583					
Site Designation:LMA-489					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/14/2017					
Notes: Minor toe erosion					

Photo 2 of 3 : LEVAL_FA_2017_583_4417.jpg



LM Start	4.82	Rating **	A/W	Issue No.	26 (cont)
LM End	4.85	Issue Type +	Ma	Location *	

Photo 3 of 3 : LEVAL_FA_2017_583_4423.jpg



* 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 - Fall 2017

Reclamation District No. 2064 River Junction

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Stanislaus River	Right	6.08	10/12/2017 10/12/2017	Keith Millard

LM Start	0.33	Rating **	M	Issue No.	19
LM End	0.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.664740 °	37.664740 °
				-121.236474 °	-121.236474 °
DWR ID	DWR_RD2064_02_s_2017_19				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
This levee berm was damaged by the farmer who leases the property at this location a pump was replaced and structure was removed from the channel. Mr. Mathew Of MOCO FARMS. 10/12/2017: Erosion on waterside bank is at least 15 feet from waterside toe.					

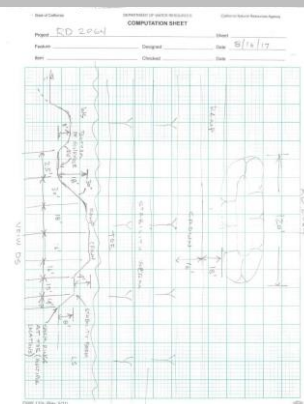
Photo 1 of 1 : FA_2017_RD2064_314_19_20171002_00002.jpg



Waterside berm at levee mile 0.33.

LM Start	0.71	Rating **	M	Issue No.	20
LM End	0.71	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.664200 °	37.664200 °
				-121.230420 °	-121.230420 °
DWR ID	DWR_RD2064_02_f_2017_20				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:POI is a waterside sinkhole with an existing seepage berm on the landside. This site was flood fought in 2017 with sack rings.					
Site ID No:584					
Site Designation:LMA-490					
Repair Type: Stability					
Rating:Area of Concern					
Field Date:8/16/2017					
Notes: POI is a waterside sinkhole					

Photo 1 of 1 : LEVAL_FA_2017_584_4923.jpg



* 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 - Fall 2017

Reclamation District No. 2064 River Junction

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Stanislaus River	Right	6.08	10/12/2017 10/12/2017	Keith Millard

LM Start	2.70	Rating **	M	Issue No.	21
LM End	2.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.684271 °	37.684943 °
				-121.220939 °	-121.220247 °
DWR ID	DWR_RD2064_02_f_2017_21				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim trees and remove vines to allow visibility and access to landside slope and toe.					

Photo 1 of 1 : FA_2017_RD2064_314_21_20171020_00068.jpg



Trim trees and remove vines to allow visibility and access to landside slope and toe.

LM Start	2.76	Rating **	A/W	Issue No.	22
LM End	2.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.684940 °	37.685703 °
				-121.220246 °	-121.219727 °
DWR ID	DWR_RD2064_02_f_2017_22				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
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 - Fall 2017

Reclamation District No. 2064 River Junction

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Stanislaus River	Right	6.08	10/12/2017 10/12/2017	Keith Millard

LM Start	4.41	Rating **	A/W	Issue No.	30
LM End	4.41	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.696386 °	37.696386 °
				-121.202963 °	-121.202963 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19117 DS_ID:20549 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch drainage pipe of an unknown material through the levee, 10.5 feet below the crown. Concrete U-shaped headwalls on both ends. Flap gate on the waterside (WS) end. Two corrugated metal cutoff walls. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 4.37)]. FS Date: 8/28/2013					

Photo 1 of 3 : UCIP_FA_2017_19117_32069.jpg



Headwall on LS toe.

LM Start	4.41	Rating **	A/W	Issue No.	30 (cont)
LM End	4.41	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2017_19117_32068.jpg



Headwall on WS 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 - Fall 2017

Reclamation District No. 2064 River Junction

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Stanislaus River	Right	6.08	10/12/2017 10/12/2017	Keith Millard

LM Start	4.51	Rating **	A/W	Issue No.	31 (cont)	
LM End	4.51	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.696892 °	37.696892 °	
				-121.201228 °	-121.201228 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22793 DS_ID:20550 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 8 feet below the crown. Concrete U-shaped headwalls on both ends, and a flap gate on the waterside (WS) end. Grouted spillway on the WS. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 4.47)]. FS Date: 8/28/2013						

Photo 2 of 3 : UCIP_FA_2017_22793_38841.jpg



Concrete headwall on LS toe.

LM Start	4.51	Rating **	A/W	Issue No.	31 (cont)
LM End	4.51	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2017_22793_38844.jpg



Concrete headwall 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 - Fall 2017

Reclamation District No. 2064 River Junction

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Stanislaus River	Right	6.08	10/12/2017 10/12/2017	Keith Millard

LM Start	4.64	Rating **	A/W	Issue No.	32
LM End	4.64	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.697101 °	37.697101 °
				-121.199048 °	-121.199048 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19120 DS_ID:20551 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 10 feet below the crown. Concrete U-shaped headwalls on both ends. Flap gate on the waterside (WS) end. Two corrugated metal cutoff walls. Grouted spillway on the WS. Spillway damaged due to uprooted tree. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 4.59)]. FS Date: 8/28/2013					

Photo 1 of 3 : UCIP_FA_2017_19120_32079.jpg



Concrete headwall on LS toe.

LM Start	4.64	Rating **	A/W	Issue No.	32 (cont)
LM End	4.64	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2017_19120_32078.jpg



Concrete headwall on 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 - Fall 2017

Reclamation District No. 2064 River Junction

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Stanislaus River	Right	6.08	10/12/2017 10/12/2017	Keith Millard

LM Start	4.64	Rating **	A/W	Issue No.	32 (cont)	
LM End	4.64	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.697101 °	37.697101 °	
				-121.199048 °	-121.199048 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19120 DS_ID:20551 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 10 feet below the crown. Concrete U-shaped headwalls on both ends. Flap gate on the waterside (WS) end. Two corrugated metal cutoff walls. Grouted spillway on the WS. Spillway damaged due to uprooted tree. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 4.59)]. FS Date: 8/28/2013						

Photo 3 of 3 : UCIP_FA_2017_19120_32077.jpg



Concrete headwall on LS toe.

LM Start	4.78	Rating **	A/W	Issue No.	33	
LM End	4.78	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.696888 °	37.696888 °	
				-121.196511 °	-121.196511 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19122						
DS_ID:20552						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 8.5 feet below the crown. Concrete U-shaped headwalls on both ends. Flap gate on the waterside (WS) end. Two corrugated metal cutoff walls. Grouted spillway on the WS. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 4.73)].						
FS Date: 8/28/2013						

Photo 1 of 3 : UCIP_FA_2017_19122_32083.jpg



Concrete headwall on LS 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 - Fall 2017

Reclamation District No. 2064 River Junction

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Stanislaus River	Right	6.08	10/12/2017 10/12/2017	Keith Millard

LM Start	4.78	Rating **	A/W	Issue No.	33 (cont)
LM End	4.78	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.696888 °	37.696888 °
				-121.196511 °	-121.196511 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19122 DS_ID:20552 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 8.5 feet below the crown. Concrete U-shaped headwalls on both ends. Flap gate on the waterside (WS) end. Two corrugated metal cutoff walls. Grouted spillway on the WS. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 4.73)]. FS Date: 8/28/2013					

Photo 2 of 3 : UCIP_FA_2017_19122_32082.jpg



Concrete headwall on WS toe.

LM Start	4.78	Rating **	A/W	Issue No.	33 (cont)
LM End	4.78	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2017_19122_32081.jpg



Concrete headwall 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 - Fall 2017

Reclamation District No. 2064 River Junction

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Stanislaus River	Right	6.08	10/12/2017 10/12/2017	Keith Millard

LM Start	4.92	Rating **	A/W	Issue No.	36
LM End	4.92	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.696146 °	37.696146 °
				-121.194093 °	-121.194093 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19143 DS_ID:20553 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 8 feet below the crown. Concrete U-shaped headwalls on both ends. Flap gate on the waterside (WS) end. Two corrugated metal cutoff walls. Grouted spillway on the WS. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 4.88)]. FS Date: 8/28/2013					

Photo 1 of 3 : UCIP_FA_2017_19143_32122.jpg



Concrete headwall on LS toe.

LM Start	4.92	Rating **	A/W	Issue No.	36 (cont)
LM End	4.92	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2017_19143_32121.jpg



Concrete headwall on WS 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
--	--	---	---

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Stanislaus River	Right	6.08	10/12/2017 10/12/2017	Keith Millard

Photo 3 of 3 : UCIP_FA_2017_19143_32120.jpg



08/28/2013 12:23

Concrete headwall on LS toe.

Photo 1 of 3 : UCIP_FA_2017_22794_38851.jpg



08/29/2013 12:33

Concrete U shaped headwall on WS toe.

* 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 - Fall 2017

Reclamation District No. 2064 River Junction

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Stanislaus River	Right	6.08	10/12/2017 10/12/2017	Keith Millard

LM Start	5.10	Rating **	A/W	Issue No.	37 (cont)
LM End	5.10	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.697483 °	37.697483 °
				-121.191332 °	-121.191332 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22794 DS_ID:20554 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 8 feet below the crown. Concrete U-shaped headwalls on both ends. Flap gate on the waterside (WS) end. Two corrugated metal cutoff walls. Grouted spillway on the WS. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 3, December 1968, (HLM 5.05)]. FS Date: 8/28/2013					

Photo 2 of 3 : UCIP_FA_2017_22794_38850.jpg



Concrete headwall on LS toe.

LM Start	5.10	Rating **	A/W	Issue No.	37 (cont)
LM End	5.10	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2017_22794_38853.jpg



Concrete headwall 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
--	--	---	---