

**Flood Control Project Maintenance
Levee Inspections**

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

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	0.00	Rating **	A	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_RD2092_01_f_2012_18				
Comment Code					
Inspector Comment					
LMA preparedness and training is adequate for flood response.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_RD2092_01_s_2012_24				
Comment Code					
Inspector Comment					
LMA has the O&M manual for their district.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	26
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_RD2092_01_s_2012_26				
Comment Code					
Inspector Comment					
LMA has adequate flood fighting supplies.					

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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	0.08	Rating **	U	Issue No.	32
LM End	0.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.602510 °	37.601898 °
				-121.159538 °	-121.161582 °
DWR ID	DWR_RD2092_01_f_2019_32				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD2092_116_32_20190924_00063.jpg



View of vegetation on landside slope looking upstream. (Fall 2019)

LM Start	0.08	Rating **	U	Issue No.	34
LM End	2.89	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.602501°	37.574610°
				-121.159588°	-121.154898°
DWR ID	DWR_RD2092_01_f_2019_34				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD2092_116_34_20190924_00064.jpg



View of vegetation along waterside slope. (Fall 2019)

* 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	0.18	Rating **	U	Issue No.	973
LM End	0.18	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			37.602031 °	37.602031 °
				-121.161249 °	-121.161249 °
DWR ID	20561				

Comment Code

Inspector Comment

DS_ID:20561

FS_ID:53799

EP_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 03/12/2019 A thorough internal evaluation of this crossing is necessary. Pipe shows evidence of pipe integrity (LS) issues (pipe wall sections missing on LS inlet) and levee integrity issues (sink hole visible along LS pipe alignment). Internal inspection is recommended for this crossing to determine the extent of pipe damage through the levee. Pipe crosses the levee at an angle at a depth of about 19 feet. Recommend caution be taken at this crossing when driving over levee until additional information becomes available to determine condition of pipe through levee. Recommend cover be placed on riser to address safety concern (riser is 80 inches in diameter and about 19 feet deep). Slide gate appears to be blocked by sediment/debris preventing slide gate to work properly. Unable to confirm if the flap gate located on the WS is still broken (see photo from 2017). (O. Magana - DWR UCIP)09/24/2013 Pipe rusted through at headwall on LS toe. Good candidate for video inspection. (W. Wylie - DWR UCIP)

FIELD_STRUCT_DESC: 60-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. Flap gate on the waterside (WS) end. Slide gate in an 80-inch corrugated metal pipe (CMP) riser on the WS slope. Concrete U-shaped headwalls on both ends.

[Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 0.18)].

FS Date: 3/12/2019 12:05:00 PM

Photo 1 of 3 : UCIP_FA_2019_53799_79055.jpg



Overview of levee with approximate pipe alignment (pipe angled through levee).

* 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	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	0.18	Rating **	U	Issue No.	973 (cont)	
LM End	0.18	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			37.602031 °	37.602031 °	
				-121.161249 °	-121.161249 °	
DWR ID	20561					
Comment Code						
Inspector Comment						
DS_ID:20561 FS_ID:53799 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 03/12/2019 A thorough internal evaluation of this crossing is necessary. Pipe shows evidence of pipe integrity (LS) issues (pipe wall sections missing on LS inlet) and levee integrity issues (sink hole visible along LS pipe alignment). Internal inspection is recommended for this crossing to determine the extent of pipe damage through the levee. Pipe crosses the levee at an angle at a depth of about 19 feet. Recommend caution be taken at this crossing when driving over levee until additional information becomes available to determine condition of pipe through levee. Recommend cover be placed on riser to address safety concern (riser is 80 inches in diameter and about 19 feet deep). Slide gate appears to be blocked by sediment/debris preventing slide gate to work properly. Unable to confirm if the flap gate located on the WS is still broken (see photo from 2017). (O. Magana - DWR UCIP)09/24/2013 Pipe rusted through at headwall on LS toe. Good candidate for video inspection. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 60-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. Flap gate on the waterside (WS) end. Slide gate in an 80-inch corrugated metal pipe (CMP) riser on the WS slope. Concrete U-shaped headwalls on both ends. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 0.18)]. FS Date: 3/12/2019 12:05:00 PM						

Photo 2 of 3 : UCIP_FA_2019_53799_79054.jpg



LS view: overview of LS with sink hole visible along pipe alignment.

* 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	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	0.18	Rating **	U	Issue No.	973 (cont)	
LM End	0.18	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			37.602031 °	37.602031 °	
				-121.161249 °	-121.161249 °	
DWR ID	20561					
Comment Code						
Inspector Comment						
DS_ID:20561 FS_ID:53799 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 03/12/2019 A thorough internal evaluation of this crossing is necessary. Pipe shows evidence of pipe integrity (LS) issues (pipe wall sections missing on LS inlet) and levee integrity issues (sink hole visible along LS pipe alignment). Internal inspection is recommended for this crossing to determine the extent of pipe damage through the levee. Pipe crosses the levee at an angle at a depth of about 19 feet. Recommend caution be taken at this crossing when driving over levee until additional information becomes available to determine condition of pipe through levee. Recommend cover be placed on riser to address safety concern (riser is 80 inches in diameter and about 19 feet deep). Slide gate appears to be blocked by sediment/debris preventing slide gate to work properly. Unable to confirm if the flap gate located on the WS is still broken (see photo from 2017). (O. Magana - DWR UCIP)09/24/2013 Pipe rusted through at headwall on LS toe. Good candidate for video inspection. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 60-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. Flap gate on the waterside (WS) end. Slide gate in an 80-inch corrugated metal pipe (CMP) riser on the WS slope. Concrete U-shaped headwalls on both ends. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 0.18)]. FS Date: 3/12/2019 12:05:00 PM						

Photo 3 of 3 : UCIP_FA_2019_53799_79058.jpg



LS view: pipe crosses levee at angle, approximate alignment on LS.

* 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	0.79	Rating **	M	Issue No.	42
LM End	0.83	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.596895°	37.596351°
				-121.168493°	-121.168360°
DWR ID	DWR_RD2092_01_f_2018_42				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	1.25	Rating **	M	Issue No.	39
LM End	1.31	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.590936°	37.590524°
				-121.164819°	-121.163947°
DWR ID	DWR_RD2092_01_s_2017_39				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD2092_116_39_20190912_00016.jpg



Looking upstream at rutting and depression on levee crown. (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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	1.30	Rating **	M	Issue No.	977	
LM End	1.30	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			37.590603°	37.590603°	
				-121.164111°	-121.164111°	
DWR ID	20562					
Comment Code						
Inspector Comment						
DS_ID:20562 FS_ID:53820 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 03/12/2019 During UCIP visual inspection, no pipe or levee integrity issues were observed. Distribution box located on the WS is falling apart (bricks missing). This crossing is an active crossing however, no permit has been found authorizing crossing. Need to determine who maintains and operates this crossing. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. 4-foot by 6-foot concrete distribution box on the landside (LS) toe. 5-foot by 5-foot concrete riser on the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 1.31)]. FS Date: 3/12/2019 12:06:00 PM						

LM Start	1.30	Rating **	M	Issue No.	977 (cont)
LM End	1.30	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2019_53820_79073.jpg



Overview of pipe alignment through levee, photo taking looking d/s toward crossing.

Photo 2 of 3 : UCIP_FA_2019_53820_79078.jpg



WS view: approximate alignment on WS.

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Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	1.30	Rating **	M	Issue No.	977 (cont)
LM End	1.30	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			37.590603 ° -121.164111 °	37.590603 ° -121.164111 °
DWR ID	20562				
Comment Code					
Inspector Comment					
DS_ID:20562 FS_ID:53820 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 03/12/2019 During UCIP visual inspection, no pipe or levee integrity issues were observed. Distribution box located on the WS is falling apart (bricks missing). This crossing is an active crossing however, no permit has been found authorizing crossing. Need to determine who maintains and operates this crossing. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. 4-foot by 6-foot concrete distribution box on the landside (LS) toe. 5-foot by 5-foot concrete riser on the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 1.31)]. FS Date: 3/12/2019 12:06:00 PM					

Photo 3 of 3 : UCIP_FA_2019_53820_35213.jpg



Slide gate in 48-inch CMP riser on WS slope.

LM Start	1.31	Rating **	M	Issue No.	46
LM End	1.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.590563 ° -121.164005 °	37.590563 ° -121.164005 °
DWR ID	DWR_RD2092_01_f_2019_46				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

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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Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	1.60	Rating **	M	Issue No.	48
LM End	1.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.587068 °	37.587068 °
				-121.162773 °	-121.162773 °
DWR ID	DWR_RD2092_01_f_2019_48				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD2092_116_48_20190924_00070.jpg



View of branches hanging over waterside slope. (Fall 2019)

LM Start	1.65	Rating **	M	Issue No.	49
LM End	1.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.586430 °	37.586430 °
				-121.163108 °	-121.163108 °
DWR ID	DWR_RD2092_01_f _ 2019_49				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

Photo 1 of 2 : FA_2019_RD2092_116_49_20190924_00074.jpg



View of branches hanging over levee crown. (Fall 2019)

LM Start	1.65	Rating **	M	Issue No.	49 (cont)
LM End	1.65	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2019_RD2092_116_49_20190924_00075.jpg



Looking upstream along the levee crown. (Fall 2019)

*** 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	1.69	Rating **	U	Issue No.	978
LM End	1.69	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			37.585938 °	37.585938 °
				-121.163348 °	-121.163348 °
DWR ID	20563				
Comment Code					
Inspector Comment					
DS_ID:20563 FS_ID:53817 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 03/12/2019 A thorough internal evaluation of this crossing is required, pipe shows evidence of pipe integrity (LS) issues (pipe wall sections missing on WS outlet). Internal inspection is recommended for this crossing to determine the extent of pipe damage through the levee. Maintenance issues identified at this crossing include: flap gate missing on WS, debris found inside concrete distribution box, and missing cover on riser. No permit has been identified for this crossing. Need to determine who maintains crossing; crossing appears functional. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 1.71)]. FS Date: 3/12/2019 12:07:00 PM					

Photo 1 of 3 : UCIP_FA_2019_53817_79086.jpg



Overview of levee crown looking d/s towards pipe crossing.

LM Start	1.69	Rating **	U	Issue No.	978 (cont)
LM End	1.69	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2019_53817_79087.jpg



WS view: overview of WS.

* 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	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	1.69	Rating **	U	Issue No.	978 (cont)	
LM End	1.69	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			37.585938 °	37.585938 °	
				-121.163348 °	-121.163348 °	
DWR ID	20563					
Comment Code						
Inspector Comment						
DS_ID:20563 FS_ID:53817 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 03/12/2019 A thorough internal evaluation of this crossing is required, pipe shows evidence of pipe integrity (LS) issues (pipe wall sections missing on WS outlet). Internal inspection is recommended for this crossing to determine the extent of pipe damage through the levee. Maintenance issues identified at this crossing include: flap gate missing on WS, debris found inside concrete distribution box, and missing cover on riser. No permit has been identified for this crossing. Need to determine who maintains crossing; crossing appears functional. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 1.71)]. FS Date: 3/12/2019 12:07:00 PM						

Photo 3 of 3 : UCIP_FA_2019_53817_79085.jpg



LS view: overview of LS.

LM Start	1.92	Rating **	M	Issue No.	37
LM End	1.98	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.584273 °	37.584361 °
				-121.161034 °	-121.159955 °
DWR ID	DWR_RD2092_01_s_2017_37				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

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	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	2.04	Rating **	C	Issue No.	30
LM End	2.04	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.584272 °	37.584272 °
				-121.158851 °	-121.158851 °
DWR ID	DWR_RD2092_01_s_2019_30				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	2.07	Rating **	M	Issue No.	979
LM End	2.07	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			37.584212 °	37.584212 °
				-121.158347 °	-121.158347 °
DWR ID	20564				
Comment Code					
Inspector Comment					
DS_ID:20564 FS_ID:53814 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 03/12/2019 Concrete headwall found on LS toe. Pipe appears to have been grouted through. No other appurtenances were found during inspection. WS outlet was not found. Need to coordinate with the CVFPB to determine if additional steps are needed to comply with Title 23. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 30-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwalls on both ends. Filled with concrete on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 2.10), 36-inch pipe listed]. FS Date: 3/12/2019 12:08:00 PM					

Photo 1 of 3 : UCIP_FA_2019_53814_79091.jpg



Overview of levee crown, looking u/s from d/s, and approximate pipe alignment.

* 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 - Fall 2019

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	2.07	Rating **	M	Issue No.	979 (cont)	
LM End	2.07	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			37.584212 °	37.584212 °	
				-121.158347 °	-121.158347 °	
DWR ID	20564					
Comment Code						
Inspector Comment						
DS_ID:20564 FS_ID:53814 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 03/12/2019 Concrete headwall found on LS toe. Pipe appears to have been grouted through. No other appurtenances were found during inspection. WS outlet was not found. Need to coordinate with the CVFPB to determine if additional steps are needed to comply with Title 23. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 30-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwalls on both ends. Filled with concrete on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 2.10), 36-inch pipe listed]. FS Date: 3/12/2019 12:08:00 PM						

LM Start	2.07	Rating **	M	Issue No.	979 (cont)
LM End	2.07	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2019_53814_79092.jpg



Overview of levee at crossing, photo taken u/s looking d/s towards pipe crossing.

Photo 3 of 3 : UCIP_FA_2019_53814_79093.jpg



LS view: concrete riser, power pole, and groundwater pump station.

* 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 - Fall 2019

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	2.18	Rating **	M	Issue No.	33
LM End	2.22	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.583247°	37.582851°
				-121.156621°	-121.156119°
DWR ID	DWR_RD2092_01_s_2019_33				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	2.44	Rating **	M	Issue No.	50
LM End	2.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.579945 °	37.579945 °
				-121.156995 °	-121.156995 °
DWR ID	DWR_RD2092_01_f_2019_50				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Palm tree should be removed from landside slope before it can establish.					

Photo 1 of 1 : FA_2019_RD2092_116_50_20190924_00071.jpg



View of palm tree in landside slope. (Fall 2019)

LM Start	2.50	Rating **	M	Issue No.	51
LM End	2.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.579115 °	37.579115 °
				-121.157002 °	-121.157002 °
DWR ID	DWR_RD2092_01_f_2019_51				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Palm tree should be removed from landside toe before it can establish.					

Photo 1 of 1 : FA_2019_RD2092_116_51_20190924_00072.jpg



View of palm tree growing in landside toe. (Fall 2019)

*** 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 2019

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	2.63	Rating **	M	Issue No.	53
LM End	2.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.577200°	37.577200°
				-121.157152°	-121.157152°
DWR ID	DWR_RD2092_01_f_2019_53				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	2.63	Rating **	U	Issue No.	17
LM End	2.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.577186°	37.575364°
				-121.157159°	-121.157093°
DWR ID	DWR_RD2092_01_s_2018_17				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several large rodent holes within this reach need to be backfilled.					

Photo 1 of 4 : FA_2019_RD2092_116_17_20190912_00003.jpg



Looking upstream on waterward slope at several large rodent holes. (Spring 2018)

LM Start	2.63	Rating **	U	Issue No.	17 (cont)
LM End	2.76	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : FA_2019_RD2092_116_17_20190912_00004.jpg



Looking at typical large rodent holes 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 - Fall 2019

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	2.63	Rating **	U	Issue No.	17 (cont)	
LM End	2.76	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.577186°		37.575364°
				-121.157159°		-121.157093°
DWR ID	DWR_RD2092_01_s_2018_17					
Comment Code						
A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment						
Several large rodent holes within this reach need to be backfilled.						

Photo 3 of 4 : FA_2019_RD2092_116_17_20190912_00005.jpg



Looking upstream at large rodent holes on waterward slope. (Spring 2018)

LM Start	2.63	Rating **	U	Issue No.	17 (cont)
LM End	2.76	Issue Type +	Ma	Location *	WS

Photo 4 of 4 : FA_2019_RD2092_116_17_20190912_00006.jpg



Looking downstream at several rodent holes on waterward slope. (Spring 2018)

LM Start	2.74	Rating **	M	Issue No.	45
LM End	2.74	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.575514 °	37.575514 °
				-121.157140 °	-121.157140 °
DWR ID	DWR_RD2092_01_s_2019_45				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Depression and rutting in levee crown should be repaired.					

Photo 1 of 2 : FA_2019_RD2092_116_45_20190912_00021.jpg



View of rutting along levee crown. (Spring 2019)

* 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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**Flood Control Project Maintenance
Levee Inspections**

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

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	2.74	Rating **	M	Issue No.	45 (cont)	
LM End	2.74	Issue Type +	Ma	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Crown Surface / Depressions / Rutting			37.575514 °		37.575514 °
				-121.157140 °		-121.157140 °
DWR ID	DWR_RD2092_01_s_2019_45					
Comment Code						
C2 : Repair depressions or ruts in the crown or slope.						
Inspector Comment						
Depression and rutting in levee crown should be repaired.						

Photo 2 of 2 : FA_2019_RD2092_116_45_20190912_00022.jpg



View of depression in levee crown. (Spring 2019)

LM Start	2.82	Rating **	M	Issue No.	35
LM End	3.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.574869 °	37.574141 °
				-121.156247 °	-121.152762 °
DWR ID	DWR_RD2092_01_s_2017_35				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 3 : FA_2019_RD2092_116_35_20190912_00012.jpg



Squirrels observed along waterside slope. (Spring 2019)

LM Start	2.82	Rating **	M	Issue No.	35 (cont)
LM End	3.01	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA_2019_RD2092_116_35_20190912_00013.jpg



View of typical rodent holes. (Spring 2019)

* 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 - Fall 2019

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	2.82	Rating **	M	Issue No.	35 (cont)
LM End	3.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.574869 °	37.574141 °
				-121.156247 °	-121.152762 °
DWR ID	DWR_RD2092_01_s_2017_35				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 3 of 3 : FA_2019_RD2092_116_35_20190912_00014.jpg



View of several rodent burrows along waterside slope. (Spring 2019)

LM Start	3.47	Rating **	M	Issue No.	988	
LM End	3.47	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			37.573304 °	37.573304 °	
				-121.144747 °	-121.144747 °	
DWR ID	20572					
Comment Code						
Inspector Comment						
DS_ID:20572 FS_ID:53786 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 03/12/2019 No permit was found authorizing crossing. Unable to confirm if crossing is in use. Recommend adding cover to riser to address safety concern. No slide gate was found in CMP riser. If crossing is no longer in use, recommend proper abandonment or removal from levee. Owner will need to coordinate with CVFPB to be compliant with Title 23. (O. Magana - DWR UCIP) 09/24/2013 This pipe appears abandoned and if so, should be done so properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwalls on both ends. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 3.52)]. FS Date: 3/12/2019 12:11:53 PM						

Photo 1 of 3 : UCIP_FA_2019_53786_79145.jpg



Overview of levee crown looking d/s towards crossing.

* 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 - Fall 2019

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.71	09/19/2019 09/19/2019	Corey Fujitani

LM Start	3.47	Rating **	M	Issue No.	988 (cont)	
LM End	3.47	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			37.573304 °	37.573304 °	
				-121.144747 °	-121.144747 °	
DWR ID	20572					
Comment Code						
Inspector Comment						
DS_ID:20572 FS_ID:53786 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 03/12/2019 No permit was found authorizing crossing. Unable to confirm if crossing is in use. Recommend adding cover to riser to address safety concern. No slide gate was found in CMP riser. If crossing is no longer in use, recommend proper abandonment or removal from levee. Owner will need to coordinate with CVFPB to be compliant with Title 23. (O. Magana - DWR UCIP) 09/24/2013 This pipe appears abandoned and if so, should be done so properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwalls on both ends. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 3.52)]. FS Date: 3/12/2019 12:11:53 PM						

LM Start	3.47	Rating **	M	Issue No.	988 (cont)
LM End	3.47	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2019_53786_79150.jpg



Overview of levee crown looking u/S towards crossing.

Photo 3 of 3 : UCIP_FA_2019_53786_79144.jpg



LS view: overview of land use on LS.

* 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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