

**Flood Control Project Maintenance
Levee Inspections**

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

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	03/26/2020 03/26/2020	Corey Fujitani

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			o	o
				o	o
DWR ID	DWR_RD2091_01_s_2013_2				
Comment Code					
Inspector Comment					
The LMA has copy of O & M manual on file at district office.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			o	o
				o	o
DWR ID	DWR_RD2091_01_s_2013_4				
Comment Code					
Inspector Comment					
The LMA maintains adequate flood fight supplies and equipment.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			o	o
				o	o
DWR ID	DWR_RD2091_01_s_2013_5				
Comment Code					
Inspector Comment					
The LMA maintains a good working knowledge of flood response activities and has been involved in flood fight training.					

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	7.46	03/26/2020 03/26/2020	Corey Fujitani

LM Start	0.10	Rating **	M	Issue No.	46 (cont)
LM End	0.10	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.542030 °	37.542030 °
				-121.094370 °	-121.094370 °
DWR ID	23156				

Photo 2 of 3 : UCIP_SP_2020_53094_38149.jpg



Slide gate missing from open end of pipe at WS slope.

LM Start	0.10	Rating **	M	Issue No.	46 (cont)
LM End	0.10	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_53094_76669.jpg



Overview of levee crown at pipe crossing.

LM Start	0.23	Rating **	A/W	Issue No.	15
LM End	0.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.541550 °	37.541550 °
				-121.096742 °	-121.096742 °
DWR ID	DWR_RD2091_01_s_2016_15				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Caving on landward shoulder noted in 2017 possible collapsed pipe. Monitor for potential reoccurrence.					

Photo 1 of 2 : SP_2020_RD2091_318_15_20200327_00030.jpg



Looking west along the landside shoulder. (Spring 2020)

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LM Start	0.23	Rating **	A/W	Issue No.	15 (cont)
LM End	0.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.541550 °	37.541550 °
				-121.096742 °	-121.096742 °
DWR ID	DWR_RD2091_01_s_2016_15				

Photo 2 of 2 : SP_2020_RD2091_318_15_20200327_00031.jpg



Looking down the landside slope from the crown. (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
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	03/26/2020 03/26/2020	Corey Fujitani

LM Start	0.24	Rating **	M	Issue No.	47 (cont)
LM End	0.24	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.541564 °	37.541564 °
				-121.096792 °	-121.096792 °
DWR ID	23158				

Photo 2 of 3 : UCIP_SP_2020_53431_38155.jpg



Flapgate has fallen off at WS toe.

LM Start	0.24	Rating **	M	Issue No.	47 (cont)
LM End	0.24	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_53431_38154.jpg



Concrete headwall under pipe at WS toe.

LM Start	0.25	Rating **	M	Issue No.	16
LM End	0.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.541492 °	37.541408 °
				-121.097052 °	-121.097453 °
DWR ID	DWR_RD2091_01_s_2016_16				

Photo 1 of 2 : SP_2020_RD2091_318_16_20200327_00034.jpg



Looking down the landside slope at representative rill. (Spring 2020)

Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Several sites of rill erosion and possible rodent holes along landward shoulder and slope.					

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LM Start	0.25	Rating **	M	Issue No.	16 (cont)
LM End	0.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.541492 °	37.541408 °
				-121.097052 °	-121.097453 °
DWR ID	DWR_RD2091_01_s_2016_16				

Photo 2 of 2 : SP_2020_RD2091_318_16_20200327_00035.jpg



Looking at rills in landside slope from the toe. (Spring 2020)

LM Start	0.63	Rating **	M	Issue No.	48
LM End	0.63	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.541220 °	37.541220 °
				-121.103880 °	-121.103880 °
DWR ID	23161				

Photo 1 of 3 : UCIP_SP_2020_51639_38158.jpg



24-inch CMP on concrete headwall with flapgate on WS toe.

Comment Code					
Inspector Comment					
DS_ID:23161 FS_ID:51639 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent since the flap gate appears to fully close. According to Mike Alvez, this crossing is abandoned and the City of Modesto is working with CVFPB to authorize proper abandonment/removal. The City is working at finding funds to pay for proper abandonment/removal of all the drainage structures through this levee. (O. Magana - DWR UCIP)10/15/2013 Appears abandoned and if so should be done so properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 12 feet below the crown. Flap gate and concrete headwall on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 6, September 1961, (HLM 0.64)]. FS Date: 11/18/2016					

* 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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LM Start	0.63	Rating **	M	Issue No.	48 (cont)
LM End	0.63	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.541220 °	37.541220 °
				-121.103880 °	-121.103880 °
DWR ID	23161				

Photo 2 of 3 : UCIP_SP_2020_51639_38157.jpg



24-inch CMP on concrete headwall with flapgate on WS toe.

LM Start	0.63	Rating **	M	Issue No.	48 (cont)
LM End	0.63	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_51639_76677.jpg



View of LS.

LM Start	1.88	Rating **	M	Issue No.	10
LM End	1.94	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.527415 °	37.527323 °
				-121.101628 °	-121.100589 °
DWR ID	DWR_RD2091_01_s_2020_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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Unit No. 01 San Joaquin River	Right	7.46	03/26/2020 03/26/2020	Corey Fujitani

LM Start	2.05	Rating **	C	Issue No.	18
LM End	2.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.526083 °	37.525897 °
				-121.099328 °	-121.099116 °
DWR ID	DWR_RD2091_01_f_2017_18				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion at the landside toe.					

No Photos

LM Start	3.31	Rating **	M	Issue No.	11
LM End	3.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.512762 °	37.511583 °
				-121.089860 °	-121.087920 °
DWR ID	DWR_RD2091_01_s_2020_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2020_RD2091_318_11_20200327_00036.jpg



View of landside slope looking upstream. (Spring 2020)

LM Start	4.64	Rating **	M	Issue No.	13
LM End	4.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.496757 °	37.495230 °
				-121.079928 °	-121.078884 °
DWR ID	DWR_RD2091_01_s_2020_13				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
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	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Right	7.46	03/26/2020 03/26/2020	Corey Fujitani

LM Start	6.07	Rating **	M	Issue No.	14
LM End	6.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.486852 °	37.486852 °
				-121.060915 °	-121.060915 °
DWR ID	DWR_RD2091_01_s_2020_14				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : SP_2020_RD2091_318_14_20200327_00038.jpg



View of animal burrow from landside toe. (Spring 2020)

LM Start	6.07	Rating **	M	Issue No.	14 (cont)
LM End	6.07	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2020_RD2091_318_14_20200327_00037.jpg



View of animal burrow in landside slope. (Spring 2020)

LM Start	6.95	Rating **	M	Issue No.	20
LM End	6.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.481989 °	37.481989 °
				-121.049889 °	-121.049889 °
DWR ID	DWR_RD2091_01_s_2020_20				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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Unit No. 01 San Joaquin River	Right	7.46	03/26/2020 03/26/2020	Corey Fujitani

LM Start	7.27	Rating **	C	Issue No.	17
LM End	7.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.480994 °	37.479774 °	
			-121.046195 °	-121.044869 °	
DWR ID	DWR_RD2091_01_f_2019_17				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	7.28	Rating **	C	Issue No.	19
LM End	7.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.480992 °	37.480799 °	
			-121.046190 °	-121.045876 °	
DWR ID	DWR_RD2091_01_f_2019_19				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	7.42	Rating **	U	Issue No.	8
LM End	7.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.479308 °	37.478998 °	
			-121.044708 °	-121.044660 °	
DWR ID	DWR_RD2091_01_s_2017_8				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repaired area with concrete containing rebar. Need to remove rebar.					

Photo 1 of 3 : SP_2020_RD2091_318_8_20200327_00039.jpg



Looking east at repaired site on waterward slope and toe. (Spring 2020)

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LM Start	7.42	Rating **	U	Issue No.	8 (cont)
LM End	7.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.479308 °	37.478998 °
				-121.044708 °	-121.044660 °
DWR ID	DWR_RD2091_01_s_2017_8				

Photo 2 of 3 : SP_2020_RD2091_318_8_20200327_00045.jpg



View of rebar and other steel in the concrete rubble along the landside toe. (Spring 2020)

LM Start	7.42	Rating **	U	Issue No.	8 (cont)
LM End	7.45	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : SP_2020_RD2091_318_8_20200327_00042.jpg



View of rebar within the concrete rubble. (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
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