

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	04/05/2016 04/05/2016	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	1
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_RD0017_01_s_2013_1				
Comment Code					
Inspector Comment					
LMA has a copy of the manual on file.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	2
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_RD0017_01_s_2013_2				
Comment Code					
Inspector Comment					
LMA has adequate flood fight supplies.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	3
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_RD0017_01_s_2013_3				
Comment Code					
Inspector Comment					
District staff are involved in yearly training sponsored by DWR.					

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 French Camp Slough	Left	1.76	04/05/2016 04/05/2016	Richard Willoughby

LM Start	0.02	Rating **	M	Issue No.	11
LM End	1.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.911386 °	37.915961 °
				-121.291287 °	-121.320721 °
DWR ID	DWR_RD0017_01_s _ 2016_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.03	Rating **	M	Issue No.	10
LM End	1.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.911610 °	37.915961 °
				-121.291317 °	-121.320721 °
DWR ID	DWR_RD0017_01_s _ 2016_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.38	Rating **	M	Issue No.	12
LM End	0.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.913158 °	37.913158 °
				-121.296868 °	-121.296868 °
DWR ID	DWR_RD0017_01_s _ 2016_12				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

* 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	75
LM End	14.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.915956 °	37.772165 °
				-121.320735 °	-121.289192 °
DWR ID	DWR_RD0017_02_s_2016_75				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	74
LM End	14.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.915956 °	37.772167 °
				-121.320735 °	-121.289095 °
DWR ID	DWR_RD0017_02_s_2016_74				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.77	Rating **	M	Issue No.	77
LM End	0.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.906106 °	37.906106 °
				-121.323060 °	-121.323060 °
DWR ID	DWR_RD0017_02_s_2016_77				
Comment Code					
PR : Prunings					
Inspector Comment					
Landowner piling prunings at landward toe.					

Photo 1 of 2 : SP_2016_RD0017_304_77_20160408_00194.jpg



Looking east at pruning at landward 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

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Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	0.77	Rating **	M	Issue No.	77 (cont)	
LM End	0.77	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			37.906106 °	37.906106 °	
				-121.323060 °	-121.323060 °	
DWR ID	DWR_RD0017_02_s_2016_77					
Comment Code						
PR : Prunings						
Inspector Comment						
Landowner piling prunings at landward toe.						

Photo 2 of 2 : SP_2016_RD0017_304_77_20160408_00195.jpg



LM Start	1.08	Rating **	U	Issue No.	2
LM End	1.08	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.902530 °	37.902530 °
				-121.325690 °	-121.325690 °
DWR ID	DWR_RD0017_02_s_2016_2				
Comment Code					
Inspector Comment					
06/24/2015: No significant change observed.					
6/19/2014: No significant change observed.					
08/13/2013: No significant change at this site.					
08/07/2012: The erosion is nearly vertical, and has developed upward					
to halfway of the levee slope. The protecting concrete blocks have been					
washed away. Animal activities are visible. [2015 Site					
ID:RD0017U02RM44.32]					

Photo 1 of 2 : SP_2016_RD0017_304_2_20160404_00004.jpg



Front view of the erosion site. Note the concrete blocks and vegetation.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	2.67	Rating **	M	Issue No.	6 (cont)	
LM End	2.69	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.880710 °		37.880710 °
				-121.332200 °		-121.332200 °
DWR ID	DWR_RD0017_02_s_2016_6					
Comment Code						
Inspector Comment						
06/24/2015: Levee has been cut at the mid slope and a temporary step has been made for unknow purpose. More erosion has been found at the site.						
6/19/2014: The erosion is in the river bank which has an estimated 10-ft wide berm. [2015 Site ID:RD0017U02RM45.95]						

Photo 2 of 2 : SP_2016_RD0017_304_6_20160404_00007.jpg



Close view of the erosion.

LM Start	2.82	Rating **	M	Issue No.	8
LM End	2.82	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.878660 °	37.878660 °
				-121.332400 °	-121.332400 °
DWR ID	DWR_RD0017_02_s_2016_8				
Comment Code					
Inspector Comment					
06/24/2015: No significant change observed.					
06/19/2014: A pocket erosion was found during the boat survey. [2015					
Site ID:RD0017U02RM46.1]					

Photo 1 of 2 : SP_2016_RD0017_304_8_20160404_00008.jpg



Front view of the erosion.

LM Start	2.82	Rating **	M	Issue No.	8 (cont)
LM End	2.82	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2016_RD0017_304_8_20160404_00009.jpg



Close view of the erosion. The slope protection is poor.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	3.63	Rating **	M	Issue No.	10
LM End	3.63	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.868500 °	37.868500 °
				-121.327670 °	-121.327670 °
DWR ID	DWR_RD0017_02_s_2016_10				
Comment Code					
Inspector Comment					
06/24/2015: No significant change observed. 06/19/2014: The erosion is near a large tree and probably has been caused by the irrigation pipe on the site. [2015 Site ID:RD0017U02RM46.89]					

LM Start	3.63	Rating **	M	Issue No.	10 (cont)
LM End	3.63	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP_2016_RD0017_304_10_20160404_00011.jpg



Front view of the erosion. Note the tree and the irrigation pipe.

Photo 2 of 2 : SP_2016_RD0017_304_10_20160404_00012.jpg



Close view of the erosion.

LM Start	4.98	Rating **	U	Issue No.	78
LM End	5.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.854875 °	37.853192 °
				-121.319542 °	-121.320200 °
DWR ID	DWR_RD0017_02_s_2016_78				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 3 : SP_2016_RD0017_304_78_20160408_00196.jpg



Looking north at rodent holes on landward slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
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LM Start	4.98	Rating **	U	Issue No.	78 (cont)	
LM End	5.12	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.854875 °	37.853192 °	
				-121.319542 °	-121.320200 °	
DWR ID	DWR_RD0017_02_s _ 2016_78					
Comment Code						
A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment						

Photo 2 of 3 : SP_2016_RD0017_304_78_20160408_00197.jpg



LM Start	4.98	Rating **	U	Issue No.	78 (cont)
LM End	5.12	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP_2016_RD0017_304_78_20160408_00198.jpg



LM Start	5.52	Rating **	A/W	Issue No.	76
LM End	5.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.850118 °	37.850118 °
				-121.320188 °	-121.320188 °
DWR ID	DWR_RD0017_02_s _ 2012_76				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes has been backfilled, but should be monitored.					

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. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	6.74	Rating **	A/W	Issue No.	79
LM End	6.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.838810 °	37.838810 °
				-121.316600 °	-121.316600 °
DWR ID	DWR_RD0017_02_s _ 2015_79				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove cactus on waterward slope.					

No Photos

LM Start	7.25	Rating **	M	Issue No.	18
LM End	7.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.832612 °	37.832612 °
				-121.312093 °	-121.312093 °
DWR ID	DWR_RD0017_02_s _ 2013_18				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	7.42	Rating **	M	Issue No.	4
LM End	7.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.830350 °	37.830350 °
				-121.310880 °	-121.310880 °
DWR ID	DWR_RD0017_02_s _ 2012_4				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	7.58	Rating **	M	Issue No.	25
LM End	7.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.828095 °	37.827920 °
				-121.309945 °	-121.309847 °
DWR ID	DWR_RD0017_02_s _ 2012_25				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD0017_304_25_20160404_00013.jpg



Elderberry blocking view of landside slope and toe.

LM Start	8.93	Rating **	M	Issue No.	81
LM End	8.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.818792 °	37.818792 °
				-121.314824 °	-121.314824 °
DWR ID	DWR_RD0017_02_s _ 2016_81				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	9.29	Rating **	U	Issue No.	9
LM End	9.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.815270 °	37.815270 °
				-121.317692 °	-121.317692 °
DWR ID	DWR_RD0017_02_s _ 2012_9				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry at landside toe.					

Photo 1 of 1 : SP_2016_RD0017_304_9_20160404_00010.jpg



Looking east at bamboo at landward 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	
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Unit No. 02 San Joaquin River	Right	14.27	04/05/2016 04/05/2016	Richard Willoughby

LM Start	10.64	Rating **	M	Issue No.	80
LM End	10.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.805787 °	37.805787 °
				-121.322022 °	-121.322022 °
DWR ID	DWR_RD0017_02_s_2015_80				
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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