

**Flood Control Project Maintenance  
Levee Inspections  
LMA District Cover Sheet  
Spring 2010 Levee Inspection Results**

**Reclamation District No. 0017 Mossdale**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\* **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

**FALL INSPECTIONS:** The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2010 Levee Inspection Results**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles
Unit No. 01 French Camp Slough	Left	1.79

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/19/2010 - 4/20/2010			
DWR Inspector	Richard Willoughby			
Accompanied By	Robert Winter KSN Engineering			

Check one:

During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.

During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Room LL-30  
Sacramento, CA 95821-9000


X

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2010**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.79	04/19/2010 04/20/2010	Richard Willoughby

LMIR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.17	0.26	Earthen Levee	Animal Control	WS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows. Inspector Comments: District has grouted animal burrow.	37.912990 ° -121.293105 °	37.913488 ° -121.294594 °	5
2	0.31	0.31	Earthen Levee	Animal Control	LS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.913448 ° -121.295492 °	37.913448 ° -121.295492 °	13
3	0.52	0.52	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	37.912929 ° -121.299097 °	37.912929 ° -121.299097 °	1
4	0.57	0.57	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	37.913366 ° -121.299811 °	37.913366 ° -121.299811 °	2
5	0.60	0.60	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	37.913658 ° -121.300208 °	37.913658 ° -121.300208 °	3
6	0.86	0.86	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	37.915078 ° -121.304228 °	37.915078 ° -121.304228 °	4
7	0.88	0.97	Earthen Levee	Animal Control	WS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.915093 ° -121.304609 °	37.915237 ° -121.306245 °	12
8	0.92	0.92	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps. Inspector Comments: Three stumps at this location.	37.915087 ° -121.305312 °	37.915087 ° -121.305312 °	6

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected C : Corrected W : Watch/Monitor
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2010 Levee Inspection Results**

**Reclamation District No. 0017 Mossdale**

<b>Waterway</b>		<b>Bank</b>	<b>Unit Miles</b>
Unit No. 02 San Joaquin River		Right	14.45

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/19/2010 - 4/20/2010			
DWR Inspector	Richard Willoughby			
Accompanied By	Robert Winter KSN Engineering			

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DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Room LL-30  
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**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2010**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.45	04/19/2010 04/20/2010	Richard Willoughby

LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.07	0.07	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.915161 ° -121.321595 °	37.915161 ° -121.321595 °	7
2	0.19	0.24	Earthen Levee	Animal Control	WS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.913832 ° -121.322918 °	37.913229 ° -121.323408 °	3
3	0.46	0.46	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.910190 ° -121.324424 °	37.910190 ° -121.324424 °	8
4	0.68	0.69	Supplemental	DWR Erosion Survey	WS	M	Inspector Comments: 2009: Undercutting of the toe just above the existing rip rap; note there is a housing development on the landside of the levee (refer to Aerial Atlas) [2009 SiteID:RD0017U2RM43.95]	37.907119 ° -121.324224 °	37.907119 ° -121.324224 °	1 Y
5	1.55	1.55	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	37.896131 ° -121.327392 °	37.896131 ° -121.327392 °	10
6	2.19	2.23	Earthen Levee	Animal Control	LS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows. Inspector Comments: Maintainer graded landside slope several squirrel holes still visible.	37.887702 ° -121.329528 °	37.887231 ° -121.330156 °	6
7	2.82	2.82	Earthen Levee	Animal Control	WS	C	Exterminate rodents and backfill and compact or grout burrows.	37.879184 ° -121.332161 °	37.879184 ° -121.332161 °	39
8	2.89	2.89	Supplemental	DWR Erosion Survey	WS	M	Inspector Comments: 2009: pocket erosion just below and across the abutment of Howard Road Bridge; existing toe rip rap and concrete slabs in place; erosion may develop into a larger pocket erosion if no corrective action is taken [2009 SiteID:RD0017U2RM46.13]	37.878234 ° -121.331693 °	37.878234 ° -121.331693 °	2 Y
9	3.28	3.50	Earthen Levee	Animal Control	LS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.873488 ° -121.330377 °	37.870739 ° -121.328831 °	40
10	3.79	3.96	Earthen Levee	Animal Control	LS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.866847 ° -121.326766 °	37.865406 ° -121.325434 °	44
11	4.24	4.27	Earthen Levee	Encroachments	LS	PO	Landscaping	37.863819 ° -121.320784 °	37.863601 ° -121.320299 °	48
12	4.28	4.32	Earthen Levee	Encroachments	LS	PO	Crops	37.863582 ° -121.320230 °	37.862947 ° -121.319812 °	11 Y
13	5.45	5.45	Earthen Levee	Animal Control	LS	C	Exterminate rodents and backfill and compact or grout burrows.	37.851576 ° -121.321798 °	37.851576 ° -121.321798 °	52
14	5.58	5.58	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.850118 ° -121.320188 °	37.850118 ° -121.320188 °	76

**\* Location**  
 LS : Land Side  
 WS : Water Side  
 CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2010**

**Reclamation District No. 0017 Mossdale**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 San Joaquin River						Right	14.45	04/19/2010 04/20/2010	Richard Willoughby	
LMIR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
15	5.62	5.85	Earthen Levee	Encroachments	LS	PO	Landscaping	37.849472 ° -121.320159 °	37.848582 ° -121.323647 °	54
16	5.77	5.77	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	37.849267 ° -121.322590 °	37.849267 ° -121.322590 °	19
17	6.04	6.04	Earthen Levee	Encroachments	LS	M	Abandoned vehicles	37.846433 ° -121.322490 °	37.846433 ° -121.322490 °	78
18	6.68	6.68	Earthen Levee	Animal Control	LS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.840441 ° -121.315756 °	37.840441 ° -121.315756 °	57
19	7.67	7.69	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.828095 ° -121.309945 °	37.827920 ° -121.309847 °	25 Y
20	8.16	8.16	Earthen Levee	Animal Control	LS	C	Exterminate rodents and backfill and compact or grout burrows.	37.824588 ° -121.312998 °	37.824588 ° -121.312998 °	79
21	8.56	8.56	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.821270 ° -121.318282 °	37.821270 ° -121.318282 °	80
22	9.40	9.40	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.815243 ° -121.317470 °	37.815243 ° -121.317470 °	9
23	9.99	10.00	Supplemental	DWR Erosion Survey	WS	M	Inspector Comments: 2009: A 50-ft section of the lower slope has slumped just above the existing rip rap; there is also rip rap protection along the levee toe [2009 SiteID:RD0017U2RM52.8]	37.811165 ° -121.318605 °	37.811165 ° -121.318605 °	4 Y
24	10.04	10.44	Earthen Levee	Encroachments	WS	C	Fences	37.810279 ° -121.320861 °	37.808395 ° -121.326493 °	64
25	10.64	10.68	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 2009: No major change observed; erosion site is immediately upstream of rehabilitation site; recommend annual monitoring of site per Critical Erosion Sites Evaluation 2008 Report; note site # is the same as RM53.7, LM10.59; previously rated "U" [2009 SiteID:RD0017U2RM53.54]	37.805740 ° -121.324240 °	37.805740 ° -121.324240 °	5 Y
26	11.38	11.42	Earthen Levee	Encroachments	LS	PO	Fences	37.804343 ° -121.312226 °	37.803726 ° -121.312039 °	69
27	13.66	13.66	Earthen Levee	Encroachments	LS	PO	Landscaping	37.776618 ° -121.298610 °	37.776618 ° -121.298610 °	35 Y
28	14.02	14.26	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.774285 ° -121.295703 °	37.773138 ° -121.291763 °	37
29	14.04	14.44	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.774262 ° -121.295305 °	37.772163 ° -121.289295 °	38

**\* Location**  
 LS : Land Side  
 WS : Water Side  
 CR : Crown

**\*\* Rating**  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2010**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.45	04/19/2010 04/20/2010	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.68
End Levee Mile	0.69
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
<p>2009: Undercutting of the toe just above the existing rip rap; note there is a housing development on the landside of the levee (refer to Aerial Atlas) [2009 SiteID:RD0017U2RM43.95]</p>	
<p>SJR2009_RM43.95U2 092909A.JPG</p>	



Levee Mile Report Line	4
Start Levee Mile	0.68
End Levee Mile	0.69
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
<p>2009: Undercutting of the toe just above the existing rip rap; note there is a housing development on the landside of the levee (refer to Aerial Atlas) [2009 SiteID:RD0017U2RM43.95]</p>	
<p>SJR2009_RM43.95U2 092909D.JPG</p>	



Levee Mile Report Line	4
Start Levee Mile	0.68
End Levee Mile	0.69
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
<p>2009: Undercutting of the toe just above the existing rip rap; note there is a housing development on the landside of the levee (refer to Aerial Atlas) [2009 SiteID:RD0017U2RM43.95]</p>	
<p>SJR2009_RM43.95U2 092909E.JPG</p>	



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2010**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.45	04/19/2010 04/20/2010	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.68
End Levee Mile	0.69
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
<p>2009: Undercutting of the toe just above the existing rip rap; note there is a housing development on the landside of the levee (refer to Aerial Atlas) [2009 SiteID:RD0017U2RM43.95]</p>	
<p>SJR2009_RM43.95U2 092909F.JPG</p>	



Levee Mile Report Line	8
Start Levee Mile	2.89
End Levee Mile	2.89
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
<p>2009: pocket erosion just below and across the abutment of Howard Road Bridge; existing toe rip rap and concrete slabs in place; erosion may develop into a larger pocket erosion if no corrective action is taken [2009 SiteID:RD0017U2RM46.13]</p>	
<p>SJR2009_RM46.13U2 092909A.JPG</p>	



Levee Mile Report Line	8
Start Levee Mile	2.89
End Levee Mile	2.89
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
<p>2009: pocket erosion just below and across the abutment of Howard Road Bridge; existing toe rip rap and concrete slabs in place; erosion may develop into a larger pocket erosion if no corrective action is taken [2009 SiteID:RD0017U2RM46.13]</p>	
<p>SJR2009_RM46.13U2 092909B.JPG</p>	



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2010**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.45	04/19/2010 04/20/2010	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	2.89
End Levee Mile	2.89
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
<p>2009: pocket erosion just below and across the abutment of Howard Road Bridge; existing toe rip rap and concrete slabs in place; erosion may develop into a larger pocket erosion if no corrective action is taken [2009 SiteID:RD0017U2RM46.13]</p> <p>SJR2009_RM46.13U2 050210C.JPG</p>	



Levee Mile Report Line	12
Start Levee Mile	4.28
End Levee Mile	4.32
Location	Land Side
Category	Earthen Levee
Item	Encroachments
<p>Grape vines on landside slope from LM 4.28 to 4.32</p> <p>richard_s_20100505_032.jpg</p>	



Levee Mile Report Line	19
Start Levee Mile	7.67
End Levee Mile	7.69
Location	Land Side
Category	Earthen Levee
Item	Vegetation
<p>Elderberry blocking view of landside slope and toe from LM 7.67 to 7.69</p> <p>richard_s_20100505_033.jpg</p>	



<p><b>* Location</b></p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p><b>** Rating</b></p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected</p>	<p>C : Corrected W : Watch/Monitor</p>
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2010**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.45	04/19/2010 04/20/2010	Richard Willoughby

Levee Mile Report Line	23
Start Levee Mile	9.99
End Levee Mile	10.00
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
<p>2009: A 50-ft section of the lower slope has slumped just above the existing rip rap; there is also rip rap protection along the levee toe [2009 SiteID:RD0017U2RM52.8]</p>	
<p>SJR2009_RM52.80U2 092809A.JPG</p>	



Levee Mile Report Line	23
Start Levee Mile	9.99
End Levee Mile	10.00
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
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<p>SJR2009_RM52.80U2 092809B.JPG</p>	



Levee Mile Report Line	23
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<p>SJR2009_RM52.80U2 092809D.JPG</p>	



Levee Mile Report Line	25
Start Levee Mile	10.64
End Levee Mile	10.68
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
<p>2009: No major change observed; erosion site is immediately upstream of rehabilitation site ; recommend annual monitoring of site per Critical Erosion Sites Evaluation 2008 Report; note site # is the same as RM53.7, LM10.59; previously rated "U" [2009 SiteID:RD0017U2RM53.54]</p>	
<p>SJR2009_RM53.54U2 092809D.JPG</p>	



Levee Mile Report Line	25
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Item	DWR Erosion Survey
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<p>SJR2009_RM53.54U2 092809C.JPG</p>	



<p><b>* Location</b>                  LS : Land Side                  WS : Water Side                  CR : Crown</p>	<p><b>** Rating</b>                  A : Acceptable                  M : Minimally Acceptable                  U : Unacceptable</p>	<p>PO : Partially Obstructing                  CO : Completely Obstructing                  N : Not Inspected</p>	<p>C : Corrected                  W : Watch/Monitor</p>
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Levee Inspections**

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<p>SJR2009_RM53.54U2 092809B.JPG</p>	



Levee Mile Report Line	27
Start Levee Mile	13.66
End Levee Mile	13.66
Location	Land Side
Category	Earthen Levee
Item	Encroachments
<p>Catus (Landscaping) on landside slope blocking view at LM 13.66</p>	
<p>richard_s_20100505_034.jpg</p>	



<p><b>* Location</b>                  LS : Land Side                  WS : Water Side                  CR : Crown</p>	<p><b>** Rating</b>                  A : Acceptable                  M : Minimally Acceptable                  U : Unacceptable</p>	<p>PO : Partially Obstructing                  CO : Completely Obstructing                  N : Not Inspected</p>	<p>C : Corrected                  W : Watch/Monitor</p>
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