

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2010 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including DWR Erosion Survey**

***San Joaquin River Basin***

<b>RD0404</b>		Overall LMA Rating	Total LMA Miles				
<b>Reclamation District No. 0404 Boggs</b>		<b>U</b>	<b>4.12</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
<i>Earthen Levee</i>							
Vegetation	0.73		0.73	17.72%			
Encroachments	0.04		0.04	0.97%	0.05		
Animal Control	0.32		0.32	7.77%			
Slope Stability	0.02		0.02	0.49%			
Erosion / Bank Caving	0.03		0.03	0.73%			
Repair Gates		0.01	0.04	0.97%			
<i>Supplemental</i>							
DWR Erosion Survey		0.30	1.20	29.13%			
<i>LMA Totals:</i>	1.14	0.31	2.38	57.77%	0.05	0.00	

<b>Unit No. 01 San Joaquin River</b>		Overall Unit Rating	Total Unit Miles				
		<b>U</b>	<b>2.36</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
<i>Earthen Levee</i>							
Vegetation	0.64		0.64	27.12%			
Animal Control	0.10		0.10	4.24%			
Slope Stability	0.02		0.02	0.85%			
Erosion / Bank Caving	0.03		0.03	1.27%			
Repair Gates		0.01	0.04	1.69%			
<i>Supplemental</i>							
DWR Erosion Survey		0.04	0.16	6.78%			
<i>Unit Totals:</i>	0.79	0.05	0.99	41.95%	0.00	0.00	

<b>Unit No. 02 French Camp Slough</b>		Overall Unit Rating	Total Unit Miles				
		<b>U</b>	<b>1.76</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
<i>Earthen Levee</i>							
Vegetation	0.09		0.09	5.11%			
Encroachments	0.04		0.04	2.27%	0.05		
Animal Control	0.22		0.22	12.50%			
<i>Supplemental</i>							
DWR Erosion Survey		0.26	1.04	59.09%			
<i>Unit Totals:</i>	0.35	0.26	1.39	78.98%	0.05	0.00	

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

**Reclamation District No. 0404 Boggs**

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

\*\* 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**

**Fall 2010 Levee Inspection Results**

**Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles
Unit No. 01 San Joaquin River	Right	2.36

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	5/5/2010		9/21/2010	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Tom Rosten RD 404		Tom Rosten RD 404	

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, Suite 200  
Sacramento, CA 95821-9000


**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

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

**Reclamation District No. 0404 Boggs**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Right	2.36	10/27/2010 10/27/2010	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.03	0.48	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.941695 ° -121.344917 °	37.939652 ° -121.338373 °	5 Y
2	0.03	0.20	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.941697 ° -121.344917 °	37.939853 ° -121.343210 °	8 Y
3	0.21	0.25	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 9/07/2010: No significant change observed on site. There is emergent vegetation at the water line. Several pocket erosions lined along the lower slope that stretches from RM 40.86 to RM 41.14. [2010 SiteID: RD0404U01RM40.86]	37.939480 ° -121.342730 °	37.939480 ° -121.342730 °	1 Y
4	0.24	0.27	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.939430 ° -121.342620 °	37.939430 ° -121.342620 °	6 Y
5	0.75	0.75	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.937758 ° -121.334149 °	37.937758 ° -121.334149 °	7 Y
6	0.96	0.96	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.935990 ° -121.331600 °	37.935990 ° -121.331600 °	2
7	1.56	1.56	Earthen Levee	Repair Gates	CR	U	Inspector Comments: Not able to access levee due to no key to lock. Not able inspected for LM 0.80 to 1.55	37.929048 ° -121.327253 °	37.929048 ° -121.327253 °	10
8	1.57	1.67	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.928723 ° -121.327207 °	37.927945 ° -121.325933 °	9
9	1.63	1.63	Earthen Levee	Slope Stability	WS	M	Repair slope instability.	37.928208 ° -121.326608 °	37.928208 ° -121.326608 °	12 Y
10	1.64	1.65	Earthen Levee	Slope Stability	LS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	37.928118 ° -121.326338 °	37.927970 ° -121.326007 °	11 Y

<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/Rated</p>	<p>C : Corrected W : Watch/Monitor</p>
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**Flood Control Project Maintenance  
Levee Inspections**

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

**Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	10/27/2010 10/27/2010	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.03
End Levee Mile	0.48
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking north at modest vegetation on landside and waterside slopes.	
richard_f_20101029_349.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.03
End Levee Mile	0.20
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking south modest vegetation on waterside slope.	
richard_f_20101029_350.jpg	



Levee Mile Report Line	3
Start Levee Mile	0.21
End Levee Mile	0.25
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Upstream view of Site 1 at RM 41.14.	
SJR2010_RM40.86U1LM.23RBa.jpg	



<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/Rated	C : Corrected W : Watch/Monitor
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**Flood Control Project Maintenance  
Levee Inspections**

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

**Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	10/27/2010 10/27/2010	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	0.21
End Levee Mile	0.25
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of Site 1 at RM 40.98.

SJR2010\_RM40.86U1LM.23RBb.jpg



Levee Mile Report Line	3
Start Levee Mile	0.21
End Levee Mile	0.25
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of site 2 at RM 40.93.

SJR2010\_RM40.86U1LM.23RBc.jpg



Levee Mile Report Line	3
Start Levee Mile	0.21
End Levee Mile	0.25
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of site at RM40.86.

SJR2010\_RM40.86U1LM.23RBd.jpg



<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/Rated</p>	<p>C : Corrected W : Watch/Monitor</p>
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**Flood Control Project Maintenance  
Levee Inspections**

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

**Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	10/27/2010 10/27/2010	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.24
End Levee Mile	0.27
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Erosion from LM 0.24 to 0.27	
richard_f_20100921_076.jpg	



Levee Mile Report Line	4
Start Levee Mile	0.24
End Levee Mile	0.27
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Erosion at LM 0.27	
richard_f_20100921_077.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.75
End Levee Mile	0.75
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southeast at elderberry on landside slope.	
richard_f_20101029_351.jpg	



<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/Rated	C : Corrected W : Watch/Monitor
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Levee Inspections**

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

**Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.36	10/27/2010 10/27/2010	Richard Willoughby

Levee Mile Report Line	9
Start Levee Mile	1.63
End Levee Mile	1.63
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking southwest at minor slope sliding on waterside slope.	
richard_f_20101029_355.jpg	



Levee Mile Report Line	9
Start Levee Mile	1.63
End Levee Mile	1.63
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Looking southeast at minor slope sliding on waterside slope.	
richard_f_20101029_356.jpg	



Levee Mile Report Line	10
Start Levee Mile	1.64
End Levee Mile	1.65
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking northeast at minor slope damage on landside slope cause by vehicle traffic.	
richard_f_20101029_352.jpg	



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Unit No. 01 San Joaquin River	Right	2.36	10/27/2010 10/27/2010	Richard Willoughby

Levee Mile Report Line	10
Start Levee Mile	1.64
End Levee Mile	1.65
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking northeast at slope damage on landside slope cause by vehicle traffic.	
richard_f_20101029_353.jpg	



Levee Mile Report Line	10
Start Levee Mile	1.64
End Levee Mile	1.65
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking east at slope damage on landside slope.	
richard_f_20101029_354.jpg	



<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/Rated</p>	<p>C : Corrected W : Watch/Monitor</p>
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2010 Levee Inspection Results**

**Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles
Unit No. 02 French Camp Slough	Right	1.76

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	5/5/2010		9/21/2010	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Tom Rosten RD 404		Tom Rosten RD 404	

Check one:

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DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000


**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

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

**Reclamation District No. 0404 Boggs**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough				Right	1.76	10/27/2010 10/27/2010	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.01	0.05	Earthen Levee	Encroachments	LS	M	Material Inspector Comments: Concrete rubble left on landside shoulder from waterside erosion repair.	37.920222 ° -121.318138 °	37.919888 ° -121.317558 °	2 Y
2	0.19	0.35	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.919543 ° -121.311432 °	37.918935 ° -121.313335 °	3
3	0.48	0.48	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.919525 ° -121.311193 °	37.919525 ° -121.311193 °	8
4	0.82	0.91	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.918320 ° -121.305740 °	37.917162 ° -121.305285 °	4
5	1.13	1.18	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.916347 ° -121.301887 °	37.916497 ° -121.301095 °	11
6	1.32	1.58	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 11/30/2010: Site was not inspected this year due to time constraints. There has been no reports from the district that the site was corrected. Continue to monitor during flood events. 08/05/2010: Recommended for annual assessment and monitoring during flood events, per CLRO. [2010 SiteID: RD0404U02RM1.56]	37.918440 ° -121.297040 °	37.918440 ° -121.297040 °	1 Y
7	1.47	1.52	Earthen Levee	Encroachments	LS	PO	Fences	37.918440 ° -121.296707 °	37.918517 ° -121.295763 °	6 Y

<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/Rated C : Corrected W : Watch/Monitor
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**Flood Control Project Maintenance  
Levee Inspections**

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

**Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.76	10/27/2010 10/27/2010	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.01
End Levee Mile	0.05
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking south at concrete rubble with rebar on landside slope.	
richard_f_20101029_357.jpg	



Levee Mile Report Line	6
Start Levee Mile	1.32
End Levee Mile	1.58
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Photo taken in 2007.	
SJR2010_RM1.56U2LM1.45RBa.jpg	



Levee Mile Report Line	6
Start Levee Mile	1.32
End Levee Mile	1.58
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Photo taken in 2007.	
SJR2010_RM1.56U2LM1.45RBb.jpg	



<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/Rated	C : Corrected W : Watch/Monitor
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**Flood Control Project Maintenance  
Levee Inspections**

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

**Reclamation District No. 0404 Boggs**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.76	10/27/2010 10/27/2010	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	1.32
End Levee Mile	1.58
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Photo taken in 2007.	
SJR2010_RM1.56U2LM1.45RBc.jpg	



Levee Mile Report Line	6
Start Levee Mile	1.32
End Levee Mile	1.58
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Photo taken in 2007.	
SJR2010_RM1.56U2LM1.45RBd.jpg	



Levee Mile Report Line	7
Start Levee Mile	1.47
End Levee Mile	1.52
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Fence at landside shoulder from LM 1.47 to 1.52	
richard_f_20100921_082.jpg	



<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/Rated	C : Corrected W : Watch/Monitor
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