

**Flood Control Project Maintenance
Levee Inspections**

Fall 2009 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD2095		Overall LMA Rating	Total LMA Miles				
Reclamation District No. 2095 Paradise Cut		M	4.83				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
Vegetation	0.04	0.01	0.08	1.66%			
Encroachments	0.01		0.01	0.21%			
Erosion / Bank Caving	0.01		0.01	0.21%			
DWR Erosion Survey		0.10	0.40	8.28%			
<i>LMA Totals:</i>	0.06	0.11	0.50	10.35%	0.00	0.00	
Unit No. 01 Paradise Cut		Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.			
		M *	1.45				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
DWR Erosion Survey		0.02	0.08	5.52%			
<i>Unit Totals:</i>	0.00	0.02	0.08	5.52% *	0.00	0.00	
Unit No. 02 San Joaquin River		Overall Unit Rating	Total Unit Miles				
		M	3.38				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
Vegetation	0.04	0.01	0.08	2.37%			
Encroachments	0.01		0.01	0.30%			
Erosion / Bank Caving	0.01		0.01	0.30%			
DWR Erosion Survey		0.08	0.32	9.47%			
<i>Unit Totals:</i>	0.06	0.09	0.42	12.43%	0.00	0.00	

**Flood Control Project Maintenance
Levee Inspections
LMA District Cover Sheet
Fall 2009 Levee Inspection Results**

Reclamation District No. 2095 Paradise Cut

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

** 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 2009 Levee Inspection Results

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles
Unit No. 01 Paradise Cut	Left	1.45

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	4/20/2009		10/28/2009	
DWR Inspector	Richard Willoughby		John Paasch	
Accompanied By			Bob Pombo	

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 _____ Date

Signature of LMA Representative

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	10/28/2009 11/24/2009	John Paasch

LMR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.35	0.35	Earthen Levee	Encroachments	LS	C	Prunings	37.767798 ° -121.322858 °	37.767798 ° -121.322858 °	936
2	0.73	0.74	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 2009: No change observed; scouring immediately downstream of the RR crossing; potential for eddy formation; recommend annual assessment and monitoring of erosion site, per CLRO CES Evaluation 2008 Report; site # same as RM6.8,LM0.73; previously rated "U" [2009 SiteID:RD2095U1RM6.74]	37.763630 ° -121.319000 °	37.763630 ° -121.319000 °	1
3	0.86	0.86	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 2009: No change observed; recommend as a local maintenance issue, per CLRO CES Evaluation 2008 Report; site# same as RM6.9,LM0.86; previously rated "U" [2009 SiteID:RD2095U1RM6.88]	37.761960 ° -121.318140 °	37.761960 ° -121.318140 °	2
4	0.88	0.88	Earthen Levee	Encroachments	WS	C	Pipe Inspector Comments: Pipe in photo has been removed from the levee slope.	37.761782 ° -121.317893 °	37.761782 ° -121.317893 °	6
5	1.27	1.27	Earthen Levee	Encroachments	LS	C	Tree or limb	37.759403 ° -121.312347 °	37.759403 ° -121.312347 °	3

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

Unit Cover Sheet

Fall 2009 Levee Inspection Results

Reclamation District No. 2095 Paradise Cut

Waterway		Bank	Unit Miles
Unit No. 02 San Joaquin River		Left	3.38

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	4/23/2009		10/28/2009	
DWR Inspector	Richard Willoughby		John Paasch	
Accompanied By			Bob Pombo	

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(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

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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 - Fall 2009

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	10/28/2009 12/09/2009	John Paasch

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.13	0.13	Supplemental	DWR Erosion Survey	WS	C	Inspector Comments: 2009: Site Repaired; confirmed by site visit and by DWR Inspector John Paasch; previously rated "M" [2009 SiteID:RD2095U2RM58.44]	37.758470 ° -121.307150 °	37.758470 ° -121.307150 °	3
2	0.14	0.14	Earthen Levee	Erosion / Bank Caving	WS	C	Inspector Comments: Erosion back-filled with local dirt.	37.758647 ° -121.306953 °	37.758647 ° -121.306953 °	17
3	0.57	0.62	Earthen Levee	Slope Stability	LS	C	Inspector Comments: Minor slope instability due to sandy slope. Though rivets were filled in, the slope instability persists.	37.752703 ° -121.304848 °	37.752130 ° -121.304377 °	4
4	0.62	0.62	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.751668 ° -121.304302 °	37.751668 ° -121.304302 °	6
5	0.98	0.98	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	37.749737 ° -121.300002 °	37.749737 ° -121.300002 °	940
6	1.01	1.01	Earthen Levee	Vegetation	WS	U	Elderberries are blocking visibility and flood fight capability.	37.749650 ° -121.299362 °	37.749650 ° -121.299362 °	941
7	1.03	1.03	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	37.749557 ° -121.299053 °	37.749557 ° -121.299053 °	942
8	1.53	1.53	Earthen Levee	Encroachments	LS	C	Pipe	37.742864 ° -121.297272 °	37.742864 ° -121.297272 °	944
9	1.54	1.54	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	37.742828 ° -121.297532 °	37.742828 ° -121.297532 °	12
10	1.77	1.80	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 2009: 10' vertical scarp on bank that is approximately 150' in length; actively eroding bank with approximately 30' of berm remaining [2009 SiteID:RD2095U2RM60.62]	37.740196 ° -121.297662 °	37.740196 ° -121.297662 °	2
11	1.81	1.81	Earthen Levee	Erosion / Bank Caving	LS	M	Schedule repair of erosion site prior to the next inspection. Inspector Comments: Levee is approximately 40' wide at this location.	37.739710 ° -121.297943 °	37.739710 ° -121.297943 °	18 Y
12	1.85	1.89	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 2009: No change observed; pocket erosion; erosion begins immediately downstream of existing riprap; recommend annual monitoring and assessment of erosion site, per CLRO CES Evaluation 2008 Report; site # same as RM62.6,LM1.87; previously rated "U" [2009 SiteID:RD2095U2RM60.69]	37.738880 ° -121.298260 °	37.738880 ° -121.298260 °	1
13	2.04	2.04	Earthen Levee	Erosion / Bank Caving	LS	C	Note and monitor erosion site.	37.736543 ° -121.298192 °	37.736543 ° -121.298192 °	16

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected C : Corrected
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**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	10/28/2009 12/09/2009	John Paasch

LMIR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
14	2.13	2.13	Earthen Levee	Encroachments	LS	M	Prunings	37.735273 ° -121.297855 °	37.735273 ° -121.297855 °	943
15	2.14	2.27	Earthen Levee	Erosion / Bank Caving	LS	C	Note and monitor erosion site.	37.735113 ° -121.297733 °	37.733210 ° -121.297253 °	19
16	2.72	2.72	Earthen Levee	Encroachments	LS	C	Pipe Inspector Comments: Bank caving due to corroded pipe. Pipe through levee section has been replaced according to CVFPB conditions. Coupler connection to (E) plastic pipe and backfill still needs to be constructed.	37.726893 ° -121.299542 °	37.726893 ° -121.299542 °	945

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected C : Corrected
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Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	10/28/2009 12/09/2009	John Paasch

Levee Mile Report Line	11
Start Levee Mile	1.81
End Levee Mile	1.81
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking at erosion from landside toe.

jpaasch_20091028_81.jpg



Levee Mile Report Line	11
Start Levee Mile	1.81
End Levee Mile	1.81
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Photo of back-filled erosion site that has since deteriorated due to October storm. Sites since repaired and covered with straw for protection.

jpaasch_20091102_126.jpg



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