

**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

RD0544		Overall LMA Rating	Total LMA Miles				
Reclamation District No. 0544 Upper Roberts Island		M	10.33				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
Vegetation	0.12		0.12	1.16%			
Trim / Thin Trees	0.67		0.67	6.49%			
Encroachments	0.25		0.25	2.42%	0.10	0.06	
Animal Control	0.30		0.30	2.90%			
Slope Stability	0.01		0.01	0.10%			
Erosion / Bank Caving	0.01		0.01	0.10%			
Crown Surface / Depressions / Rutting		0.06	0.24	2.32%			
DWR Erosion Survey		0.04	0.16	1.55%			
<i>LMA Totals:</i>	1.36	0.10	1.76	17.04%	0.10	0.06	

Unit No. 01 San Joaquin River		Overall Unit Rating	Total Unit Miles				
		M	6.11				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
Vegetation	0.08		0.08	1.31%			
Trim / Thin Trees	0.10		0.10	1.64%			
Encroachments	0.20		0.20	3.27%			
Animal Control	0.18		0.18	2.95%			
Slope Stability	0.01		0.01	0.16%			
Erosion / Bank Caving	0.01		0.01	0.16%			
DWR Erosion Survey		0.04	0.16	2.62%			
<i>Unit Totals:</i>	0.58	0.04	0.74	12.11%	0.00	0.00	

Unit No. 02 Old River		Overall Unit Rating	Total Unit Miles				
		U	4.22				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
Vegetation	0.04		0.04	0.95%			
Trim / Thin Trees	0.57		0.57	13.51%			
Encroachments	0.05		0.05	1.19%	0.10	0.06	
Animal Control	0.12		0.12	2.84%			
Crown Surface / Depressions / Rutting		0.06	0.24	5.69%			
<i>Unit Totals:</i>	0.78	0.06	1.02	24.17%	0.10	0.06	

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

Reclamation District No. 0544 Upper Roberts Island

	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. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles
Unit No. 01 San Joaquin River	Left	6.11

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	3/30/2009		11/4/2009	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	11/24/2009 11/24/2009	Richard Willoughby

LMIR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.41	0.45	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 2009: No change observed; undercutting at the toe; some sloughing of the slope; site is outside of bend; previously rated "U" [2009 SiteID:RD0544U1RM47.12]	37.864820 ° -121.327200 °	37.864820 ° -121.327200 °	1
2	0.42	0.44	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.865060 ° -121.327223 °	37.864862 ° -121.326917 °	4
3	0.48	0.49	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.864643 ° -121.326363 °	37.864592 ° -121.326165 °	5
4	0.50	0.50	Earthen Levee	Encroachments	WS	C	Tree or limb	37.864557 ° -121.326069 °	37.864557 ° -121.326069 °	22
5	0.52	0.54	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.864498 ° -121.325692 °	37.864448 ° -121.325400 °	6
6	0.57	0.57	Earthen Levee	Slope Stability	WS	M	Repair slope instability.	37.864357 ° -121.324860 °	37.864357 ° -121.324860 °	7 Y
7	0.74	0.74	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees over roadway to at least 12 feet above ground level.	37.863374 ° -121.321910 °	37.863374 ° -121.321910 °	23
8	1.12	1.13	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.859464 ° -121.318320 °	37.859267 ° -121.318334 °	25
9	1.74	1.74	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.854368 ° -121.324036 °	37.854368 ° -121.324036 °	29
10	2.31	2.38	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.847686 ° -121.324780 °	37.846743 ° -121.324336 °	34
11	2.45	2.45	Earthen Levee	Encroachments	LS	C	Material Inspector Comments: Material at toe	37.846150 ° -121.323583 °	37.846150 ° -121.323583 °	9
12	3.31	3.31	Earthen Levee	Encroachments	LS	M	Ramp Inspector Comments: Landowner has cut new ramp on waterside slope.	37.835951 ° -121.317062 °	37.835951 ° -121.317062 °	37
13	3.56	3.56	Earthen Levee	Encroachments	WS	C	Garbage	37.833153 ° -121.314433 °	37.833153 ° -121.314433 °	10
14	4.05	4.16	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.826815 ° -121.310815 °	37.825790 ° -121.312027 °	11
15	4.50	4.69	Earthen Levee	Encroachments	WS	M	Prunings	37.823118 ° -121.316393 °	37.821958 ° -121.319592 °	12
16	4.53	4.53	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.822934 ° -121.316870 °	37.822934 ° -121.316870 °	41

* 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**

Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	11/24/2009 11/24/2009	Richard Willoughby

LMR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
17	4.70	4.70	Earthen Levee	Encroachments	LS	C	Garbage	37.821932 ° -121.319683 °	37.821932 ° -121.319683 °	13
18	4.73	4.76	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.821741 ° -121.320237 °	37.821556 ° -121.320653 °	43
19	4.83	4.83	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees over roadway to at least 12 feet above ground level.	37.820611 ° -121.321181 °	37.820611 ° -121.321181 °	44
20	4.88	4.90	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.820025 ° -121.321015 °	37.819845 ° -121.320898 °	15
21	5.05	5.05	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.818152 ° -121.319095 °	37.818152 ° -121.319095 °	17
22	5.54	5.60	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.812033 ° -121.319737 °	37.811687 ° -121.320677 °	18
23	5.71	5.75	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.811162 ° -121.322560 °	37.811168 ° -121.323268 °	19

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

Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	11/24/2009 11/24/2009	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	0.57
End Levee Mile	0.57
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Erosion around siphon pipe at LM 0.57	
richard_20091104_55.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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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2009 Levee Inspection Results

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles
Unit No. 02 Old River	Right	4.22

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/30/2009		11/25/2009	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By			Jerry Robinson	

Check one:

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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. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	11/24/2009 11/24/2009	Richard Willoughby

LMIR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.39	0.39	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	37.809591 ° -121.334597 °	37.809591 ° -121.334597 °	23
2	0.41	0.41	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.809788 ° -121.334727 °	37.809788 ° -121.334727 °	4
3	0.64	0.64	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.813015 ° -121.335077 °	37.813015 ° -121.335077 °	42
4	0.74	0.74	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.814333 ° -121.334592 °	37.814333 ° -121.334592 °	5
5	1.03	1.03	Earthen Levee	Encroachments	WS	M	Garbage	37.818055 ° -121.332690 °	37.818055 ° -121.332690 °	6
6	1.15	1.21	Earthen Levee	Encroachments	LS	PO	Fences	37.819560 ° -121.333893 °	37.820083 ° -121.334812 °	25
7	1.17	1.23	Earthen Levee	Encroachments	LS	CO	Equipment	37.819846 ° -121.334214 °	37.820209 ° -121.335150 °	26
8	1.23	1.23	Earthen Levee	Encroachments	LS	M	Prunings	37.820235 ° -121.335127 °	37.820235 ° -121.335127 °	7
9	1.26	1.32	Earthen Levee	Crown Surface / Depressions / Rutting	CR	U	Add appropriate gravel or road base. Grade and compact.	37.820363 ° -121.335603 °	37.820748 ° -121.336545 °	8
10	1.32	1.38	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.820777 ° -121.336593 °	37.821223 ° -121.337478 °	9
11	1.41	1.41	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.821423 ° -121.337878 °	37.821423 ° -121.337878 °	10
12	1.47	1.47	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.821954 ° -121.338715 °	37.821954 ° -121.338715 °	28
13	1.95	1.95	Earthen Levee	Encroachments	LS	PO	Material	37.817778 ° -121.342272 °	37.817778 ° -121.342272 °	43
14	2.04	2.04	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.818733 ° -121.343340 °	37.818733 ° -121.343340 °	44
15	2.11	2.12	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.819337 ° -121.344275 °	37.819460 ° -121.344492 °	13
16	2.15	2.24	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.819683 ° -121.344822 °	37.820612 ° -121.345942 °	14
17	2.24	2.24	Earthen Levee	Encroachments	WS	M	Prunings	37.820660 ° -121.345997 °	37.820660 ° -121.345997 °	31

* 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**

Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	11/24/2009 11/24/2009	Richard Willoughby

LMIR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
18	2.25	2.25	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.820697 ° -121.346050 °	37.820697 ° -121.346050 °	32
19	2.28	2.38	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.821096 ° -121.346418 °	37.821945 ° -121.347897 °	33
20	2.65	2.65	Earthen Levee	Encroachments	CR	M	Pipe Inspector Comments: Abandoned pipe at landside and waterside shoulder is open on both ends.	37.818867 ° -121.350393 °	37.818867 ° -121.350393 °	15 Y
21	2.74	2.74	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.817860 ° -121.351428 °	37.817860 ° -121.351428 °	16
22	2.84	2.84	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.817170 ° -121.352960 °	37.817170 ° -121.352960 °	17
23	3.29	3.29	Earthen Levee	Encroachments	WS	M	Garbage	37.819188 ° -121.359932 °	37.819188 ° -121.359932 °	18 Y
24	3.53	3.56	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Cactus on landside slope.	37.819576 ° -121.364056 °	37.819530 ° -121.364653 °	36
25	3.53	3.84	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.819533 ° -121.364058 °	37.821123 ° -121.368640 °	19
26	3.54	3.60	Earthen Levee	Animal Control	LS	A	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.819512 ° -121.364217 °	37.819443 ° -121.365297 °	21
27	3.74	3.77	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.819958 ° -121.367518 °	37.820267 ° -121.367812 °	45
28	3.83	3.86	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.821003 ° -121.368507 °	37.821345 ° -121.368935 °	46

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

Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	11/24/2009 11/24/2009	Richard Willoughby

Levee Mile Report Line	20
Start Levee Mile	2.65
End Levee Mile	2.65
Location	Crown
Category	Earthen Levee
Item	Encroachments
Abandoned pipe at LM 2.65 landside view	
richard_20091125_121.jpg	



Levee Mile Report Line	23
Start Levee Mile	3.29
End Levee Mile	3.29
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Garbage on waterside shoulder at LM 3.29	
richard_20091125_122.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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