

**Flood Control Project Maintenance
Levee Inspections**

Fall 2008 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including Boat Survey Erosion

San Joaquin River Basin

RD1602 Reclamation District No. 1602	Overall LMA Rating	Total LMA Miles				
	U	6.30				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	3.89		3.89	61.75%		
Trim / Thin Trees	0.15		0.15	2.38%		
Encroachments	0.04		0.04	0.64%	0.14	
Animal Control	1.47		1.47	23.33%		
Slope Stability	0.01		0.01	0.16%		
Crown Surface / Depressions / Rutting	0.47		0.47	7.46%		
Encroachments	0.01		0.01	0.16%		
<i>LMA Totals:</i>	6.04	0.00	6.04	95.87%	0.14	0.00

**Flood Control Project Maintenance
Levee Inspections
LMA District Cover Sheet
Fall 2008 Levee Inspection Results**

Reclamation District No. 1602

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

** 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 2008 Levee Inspection Results
Reclamation District No. 1602**

Waterway		Bank	Unit Miles
Unit No. 01 San Joaquin River		Left	6.30

	Spring (March - May)	Summer (June - August)	Fall (September - November)	Winter (December - February)
Date of Inspection	4/22/2008		9/24/2008	
DWR Inspector	Richard Willoughby		David Pesavento	
Accompanied By				
Unit Maintenance Rating (Fall Only)			U	

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 - Fall 2008

Reclamation District No. 1602

Waterway			Bank	Unit Miles	Inspection Date	Inspector
Unit No. 01 San Joaquin River			Left	6.30	09/24/2008	David Pesavento

LMR Line	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue
	Start	End						Start	End		
1	0.00	0.11	Earthen Levee	Encroachments	CR	PO	Buildings Inspector Comments: Animal pens across levee crown	37.476560 ° -121.083862 °	37.477295 ° -121.082087 °	Y	1
2	0.11	0.58	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.477257 ° -121.081990 °	37.480288 ° -121.074923 °	Y	7
3	0.11	0.58	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.477257 ° -121.081990 °	37.480287 ° -121.074922 °		6
4	0.11	0.58	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Keep the crown roadway free of vegetation.	37.477257 ° -121.081990 °	37.480287 ° -121.074920 °	Y	5
5	0.11	1.12	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows. Inspector Comments: Several borrows at this location, ~20 2"/100 sq ft, few squirrels seen	37.477257 ° -121.081990 °	37.478440 ° -121.066935 °	Y	8
6	0.12	0.58	Earthen Levee	Vegetation	CR	M	Remove the wild growth other than native grasses from the levee slopes.	37.477237 ° -121.081935 °	37.480293 ° -121.074867 °		34
7	0.58	3.70	Earthen Levee	Crown Surface / Depressions / Rutting	CR	A	Keep the crown roadway free of vegetation.	37.480288 ° -121.074923 °	37.456392 ° -121.044537 °		10
8	0.73	0.73	Earthen Levee	Encroachments	CR	M	Debris Inspector Comments: Tires & trash at land toe	37.478489 ° -121.073388 °	37.478489 ° -121.073388 °	Y	35
9	0.99	0.99	Earthen Levee	Encroachments	WS	PO	Ramp	37.478719 ° -121.069072 °	37.478719 ° -121.069072 °		36
10	1.00	1.30	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	° °	° °		38
11	1.02	1.02	Interior Drainage & Piping Systems	Encroachments	WS	M	Inspector Comments: Installation is incorrect and type of pipe (PVC)	37.478838 ° -121.068707 °	37.478838 ° -121.068707 °	Y	9
12	1.07	1.07	Earthen Levee	Slope Stability	WS	M	Repair slope instability. Inspector Comments: small amount of slumping at water toe	37.478567 ° -121.067847 °	37.478567 ° -121.067847 °	Y	37
13	1.78	1.86	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.475550 ° -121.057953 °	37.474433 ° -121.057931 °		39
14	2.02	2.12	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.472093 ° -121.057833 °	37.470891 ° -121.057165 °		40
15	2.44	2.46	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.470258 ° -121.051638 °	37.470157 ° -121.051398 °		12
16	2.84	2.95	Earthen Levee	Animal Control	LS	M	Repair the levee slope damaged by livestock and prevent large animal access.	37.466622 ° -121.046098 °	37.465462 ° -121.044806 °		41
17	3.70	4.24	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.456377 ° -121.044507 °	37.450020 ° -121.039241 °	Y	15

<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</p>
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2008

Reclamation District No. 1602

Waterway				Bank	Unit Miles	Inspection Date	Inspector				
Unit No. 01 San Joaquin River				Left	6.30	09/24/2008	David Pesavento				
LMR Line	Levee Mile		Category	Item	Location*	Rating**	Action/Comment	GPS Latitude/Longitude		Photo	Issue
	Start	End						Start	End		
18	3.70	4.24	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.456373 ° -121.044507 °	37.450023 ° -121.039234 °		14
19	3.85	3.85	Earthen Levee	Encroachments	LS	PO	Landscaping	37.454574 ° -121.043142 °	37.454574 ° -121.043142 °	Y	42
20	4.21	4.24	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.450285 ° -121.039478 °	37.450011 ° -121.039244 °		43
21	4.52	4.52	Earthen Levee	Encroachments	LS	PO	Prunings	37.446197 ° -121.037967 °	37.446197 ° -121.037967 °	Y	44
22	4.52	4.55	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	37.446341 ° -121.037877 °	37.445817 ° -121.037777 °		45
23	4.52	4.79	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.446352 ° -121.037877 °	37.442610 ° -121.037083 °		17
24	4.89	4.89	Earthen Levee	Encroachments	LS	M	Prunings	37.441236 ° -121.036784 °	37.441236 ° -121.036784 °		18
25	4.90	5.17	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.441123 ° -121.036862 °	37.437525 ° -121.036970 °		46
26	4.92	4.92	Earthen Levee	Encroachments	LS	M	Debris	37.440905 ° -121.036996 °	37.440905 ° -121.036996 °		47
27	5.10	5.15	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.438428 ° -121.037197 °	37.437788 ° -121.037028 °		19
28	5.21	5.22	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.437015 ° -121.036787 °	37.436835 ° -121.036703 °		20
29	5.28	5.31	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	37.436115 ° -121.036009 °	37.435833 ° -121.035590 °		49
30	5.28	5.34	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.436155 ° -121.036153 °	37.435442 ° -121.035380 °		21
31	5.28	5.50	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.436141 ° -121.036055 °	37.433666 ° -121.033841 °		48
32	5.36	5.36	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	37.435223 ° -121.035318 °	37.435223 ° -121.035318 °		24
33	5.38	5.38	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.434953 ° -121.035183 °	37.434953 ° -121.035183 °		25
34	5.49	5.49	Earthen Levee	Encroachments	WS	M	Prunings	37.433767 ° -121.033977 °	37.433767 ° -121.033977 °		26
35	5.63	5.74	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.433110 ° -121.031725 °	37.432996 ° -121.029756 °		50
36	5.96	6.26	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.432555 ° -121.026263 °	37.429184 ° -121.029659 °		51

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

Levee Inspection Report By Mile - Fall 2008

Reclamation District No. 1602

Waterway			Bank	Unit Miles	Inspection Date	Inspector
Unit No. 01 San Joaquin River			Left	6.30	09/24/2008	David Pesavento

LMR Line	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue
	Start	End						Start	End		
37	6.21	6.21	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.429815 ° -121.029087 °	37.429815 ° -121.029087 °		33

<p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p>** Rating</p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p> <p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected</p>
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Waterway	Bank	Unit Miles	Inspection Date	Inspector
Unit No. 01 San Joaquin River	Left	6.30	09/24/2008	David Pesavento

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.11
Location	
Category	Earthen Levee
Item	Encroachments
Looking at animal pens on crown of levee from LM 0.00 to 0.11	



Levee Mile Report Line	2
Start Levee Mile	0.11
End Levee Mile	0.58
Location	
Category	Earthen Levee
Item	Vegetation
Levee overgrown-mow weeds/wild growth on crown, waterside & landside	



Levee Mile Report Line	4
Start Levee Mile	0.11
End Levee Mile	0.58
Location	
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Vegetation overgrown of levee crown from LM 0.11 to 0.58	



<p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p>** Rating</p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected</p>
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Reclamation District No. 1602

Waterway	Bank	Unit Miles	Inspection Date	Inspector
Unit No. 01 San Joaquin River	Left	6.30	09/24/2008	David Pesavento

Levee Mile Report Line	5
Start Levee Mile	0.11
End Levee Mile	1.12
Location	
Category	Earthen Levee
Item	Animal Control
Typical picture of animal borrows on landward slope from LM 0.11 to 0.58	



Levee Mile Report Line	8
Start Levee Mile	0.73
End Levee Mile	0.73
Location	
Category	Earthen Levee
Item	Encroachments
Remove debris within 10 feet of landside toe	



Levee Mile Report Line	11
Start Levee Mile	1.02
End Levee Mile	1.02
Location	
Category	Interior Drainage & Piping Systems
Item	Encroachments
PVC sleeve through steel pipe on waterward slope at LM 1.02	



<p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p>** Rating</p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected</p>
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Waterway	Bank	Unit Miles	Inspection Date	Inspector
Unit No. 01 San Joaquin River	Left	6.30	09/24/2008	David Pesavento

Levee Mile Report Line	11
Start Levee Mile	1.02
End Levee Mile	1.02
Location	
Category	Interior Drainage & Piping Systems
Item	Encroachments
PVC pipe connected to steel pipe on landward toe at LM 1.02	



Levee Mile Report Line	12
Start Levee Mile	1.07
End Levee Mile	1.07
Location	
Category	Earthen Levee
Item	Slope Stability
small amount of slumping at water toe	



Levee Mile Report Line	17
Start Levee Mile	3.70
End Levee Mile	4.24
Location	
Category	Earthen Levee
Item	Vegetation
Trim weeds/wild growth within 20' of waterside sholder	



<p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p>** Rating</p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected</p>
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Levee Inspection Report By Mile - Fall 2008

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Waterway	Bank	Unit Miles	Inspection Date	Inspector
Unit No. 01 San Joaquin River	Left	6.30	09/24/2008	David Pesavento

Levee Mile Report Line	19
Start Levee Mile	3.85
End Levee Mile	3.85
Location	
Category	Earthen Levee
Item	Encroachments
Remove landscaping from within 10' of landside toe	



Levee Mile Report Line	21
Start Levee Mile	4.52
End Levee Mile	4.52
Location	
Category	Earthen Levee
Item	Encroachments
Dispose of prunings on waterside slope	



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