

**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

RD1602	Overall LMA Rating	Total LMA Miles				
Reclamation District No. 1602 Del Puerto	M	6.29				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	0.64		0.64	10.18%		
Trim / Thin Trees	0.04		0.04	0.64%		
Encroachments	0.01		0.01	0.16%	1.75	
Animal Control	0.31		0.31	4.93%		
Slope Stability	0.04		0.04	0.64%		
<i>Interior Drainage & Piping Systems</i>						
Encroachments	0.01		0.01	0.16%		
Flap Gates	0.01		0.01	0.16%		
Concrete Tilting / Settlement	0.01		0.01	0.16%		
LMA Totals:	1.07	0.00	1.07	17.01%	1.75	0.00

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

Reclamation District No. 1602 Del Puerto

	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 2010 Levee Inspection Results

Reclamation District No. 1602 Del Puerto

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	6.29
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	3/16/2010		9/28/2010	
DWR Inspector	David Pesavento		David Pesavento	
Accompanied By	Mario Chavez		Tony Martinez RD1602	
	Kenny Buehner			

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. 1602 Del Puerto

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River							Left	6.29	10/28/2010 10/28/2010	David Pesavento
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
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 °	1 Y
2	0.11	0.54	Earthen Levee	Animal Control	WS	C	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 °	37.480270 ° -121.075144 °	8
3	0.14	0.56	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Excessive vegetation at the landward toe.	37.477230 ° -121.081698 °	37.480320 ° -121.075007 °	2 Y
4	0.56	0.56	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.480210 ° -121.074953 °	37.480210 ° -121.074953 °	5 Y
5	0.60	1.28	Earthen Levee	Animal Control	WS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.479968 ° -121.074582 °	37.478837 ° -121.064221 °	69
6	0.60	0.72	Earthen Levee	Encroachments	WS	PO	Fences Inspector Comments: Barbed wire fence along the landward toe.	37.479967 ° -121.074582 °	37.478514 ° -121.073435 °	70 Y
7	0.71	0.71	Earthen Levee	Animal Control	LS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.478625 ° -121.073582 °	37.478625 ° -121.073582 °	24
8	0.73	0.73	Earthen Levee	Encroachments	WS	C	Debris Inspector Comments: Tires & trash at land toe	37.478489 ° -121.073388 °	37.478489 ° -121.073388 °	35
9	0.78	0.78	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.478011 ° -121.072617 °	37.478011 ° -121.072617 °	6
10	0.78	0.78	Earthen Levee	Animal Control	WS	C	Exterminate rodents and backfill and compact or grout burrows.	37.477994 ° -121.072629 °	37.477994 ° -121.072629 °	26
11	0.78	0.78	Interior Drainage & Piping Systems	Flap Gates	WS	M	Inspector Comments: Sediment has built up at the pipe outlet preventing the flap gate from closing.	37.477965 ° -121.072595 °	37.477965 ° -121.072595 °	72 Y
12	0.95	0.97	Earthen Levee	Animal Control	LS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.478434 ° -121.069751 °	37.478679 ° -121.069145 °	28
13	0.99	0.99	Earthen Levee	Encroachments	WS	PO	Ramp	37.478719 ° -121.069072 °	37.478719 ° -121.069072 °	36
14	1.00	1.30	Earthen Levee	Animal Control	WS	C	Exterminate rodents and backfill and compact or grout burrows.	37.478776 ° -121.068922 °	37.479075 ° -121.063869 °	38
15	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 °	9 Y

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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CO : Completely Obstructing
N : Not Inspected/Rated
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.29	10/28/2010 10/28/2010	David Pesavento

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
16	1.04	1.04	Interior Drainage & Piping Systems	Concrete Tilting / Settlement	WS	M	Inspector Comments: The outlet headwall is tilting away from the pipe rendering the existing flap gate ineffective. Repair gap between pipe and headwall and stabilize headwall to prevent further damage.	37.478678 ° -121.068305 °	37.478678 ° -121.068305 °	55 Y
17	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 °	37 Y
18	1.13	1.13	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.478331 ° -121.066705 °	37.478331 ° -121.066705 °	7
19	1.16	1.16	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.478274 ° -121.066114 °	37.478274 ° -121.066114 °	18
20	1.25	1.28	Earthen Levee	Animal Control	LS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.478587 ° -121.064592 °	37.478838 ° -121.064220 °	73
21	1.32	1.32	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.479265 ° -121.063560 °	37.479265 ° -121.063560 °	20 Y
22	1.40	1.40	Earthen Levee	Animal Control	WS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.479145 ° -121.062265 °	37.479145 ° -121.062265 °	31
23	1.75	1.75	Earthen Levee	Animal Control	WS	C	Exterminate rodents and backfill and compact or grout burrows.	37.475918 ° -121.057972 °	37.475918 ° -121.057972 °	32
24	1.79	2.01	Earthen Levee	Animal Control	WS	C	Exterminate rodents and backfill and compact or grout burrows.	37.475332 ° -121.057945 °	37.472273 ° -121.057879 °	74
25	1.82	1.82	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.474997 ° -121.057959 °	37.474997 ° -121.057959 °	58
26	1.94	2.00	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.473210 ° -121.057933 °	37.472425 ° -121.057849 °	23
27	1.94	1.94	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.473189 ° -121.057893 °	37.473189 ° -121.057893 °	27
28	1.97	1.97	Earthen Levee	Animal Control	LS	C	Exterminate rodents and backfill and compact or grout burrows.	37.472821 ° -121.057907 °	37.472821 ° -121.057907 °	75
29	2.04	2.04	Earthen Levee	Animal Control	CR	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.471890 ° -121.057748 °	37.471890 ° -121.057748 °	34
30	2.08	2.08	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.471306 ° -121.057420 °	37.471306 ° -121.057420 °	39
31	2.12	2.17	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.470834 ° -121.057121 °	37.470356 ° -121.056326 °	76
32	2.12	2.19	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.470697 ° -121.056986 °	37.470297 ° -121.056067 °	29

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1602 Del Puerto

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Left	6.29	10/28/2010 10/28/2010	David Pesavento

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
33	2.17	2.17	Earthen Levee	Animal Control	WS	C	Exterminate rodents and backfill and compact or grout burrows.	37.470358 ° -121.056331 °	37.470358 ° -121.056331 °	77
34	2.24	3.45	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	37.470119 ° -121.055117 °	37.459606 ° -121.043240 °	59
35	2.33	2.33	Earthen Levee	Animal Control	WS	C	Exterminate rodents and backfill and compact or grout burrows.	37.470426 ° -121.053650 °	37.470426 ° -121.053650 °	79
36	2.33	2.33	Earthen Levee	Animal Control	LS	C	Repair the levee slope damaged by livestock and prevent large animal access.	37.470426 ° -121.053650 °	37.470426 ° -121.053650 °	78
37	2.43	2.55	Earthen Levee	Animal Control	WS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.470258 ° -121.051638 °	37.469543 ° -121.049915 °	12
38	2.65	2.65	Earthen Levee	Animal Control	LS	C	Exterminate rodents and backfill and compact or grout burrows.	37.468548 ° -121.048519 °	37.468548 ° -121.048519 °	40
39	2.76	2.76	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: The maintenance of this district has significantly improved with the vast majority of the vegetation, prunings, and debris removed. Significant progress is being made in the rodent control program.	37.467450 ° -121.047187 °	37.467450 ° -121.047187 °	30 Y
40	2.84	2.95	Earthen Levee	Animal Control	LS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.466622 ° -121.046098 °	37.465462 ° -121.044806 °	41
41	2.88	2.88	Earthen Levee	Animal Control	WS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.466294 ° -121.045682 °	37.466294 ° -121.045682 °	45
42	2.95	2.95	Earthen Levee	Animal Control	WS	C	Exterminate rodents and backfill and compact or grout burrows.	37.465469 ° -121.044813 °	37.465469 ° -121.044813 °	46
43	3.09	3.09	Earthen Levee	Animal Control	WS	C	Exterminate rodents and backfill and compact or grout burrows.	37.463953 ° -121.043331 °	37.463953 ° -121.043331 °	47
44	3.46	3.46	Earthen Levee	Animal Control	WS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.459632 ° -121.043201 °	37.459632 ° -121.043201 °	48
45	3.49	3.49	Earthen Levee	Encroachments	LS	M	Debris	37.459127 ° -121.043588 °	37.459127 ° -121.043588 °	44
46	3.61	3.61	Earthen Levee	Animal Control	WS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.457624 ° -121.044539 °	37.457624 ° -121.044539 °	82
47	3.71	3.71	Earthen Levee	Animal Control	WS	C	Exterminate rodents and backfill and compact or grout burrows.	37.456356 ° -121.044363 °	37.456356 ° -121.044363 °	3
48	3.72	3.72	Earthen Levee	Trim / Thin Trees	WS	C	Tree stumps.	37.456231 ° -121.044175 °	37.456231 ° -121.044175 °	4
49	3.73	3.73	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.456063 ° -121.044153 °	37.456063 ° -121.044153 °	49

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1602 Del Puerto

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River							Left	6.29	10/28/2010 10/28/2010	David Pesavento
LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
50	3.80	3.85	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Vegetation at the toe.	37.455234 ° -121.043682 °	37.454675 ° -121.043147 °	50
51	3.80	3.80	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.455238 ° -121.043635 °	37.455238 ° -121.043635 °	83
52	3.85	3.85	Earthen Levee	Encroachments	LS	PO	Landscaping	37.454574 ° -121.043142 °	37.454574 ° -121.043142 °	42 Y
53	3.96	3.96	Earthen Levee	Slope Stability	LS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Significant damage to USACE constructed seepage berm due to human activity.	37.453216 ° -121.042127 °	37.453216 ° -121.042127 °	62 Y
54	3.97	4.07	Earthen Levee	Encroachments	LS	PO	Fences	37.452983 ° -121.042301 °	37.451866 ° -121.041206 °	63 Y
55	4.04	4.04	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.452248 ° -121.041483 °	37.452248 ° -121.041483 °	51
56	4.05	4.05	Earthen Levee	Animal Control	WS	C	Exterminate rodents and backfill and compact or grout burrows.	37.452213 ° -121.041346 °	37.452213 ° -121.041346 °	10
57	4.07	4.07	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.451735 ° -121.041216 °	37.451735 ° -121.041216 °	52
58	4.11	4.11	Earthen Levee	Animal Control	LS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.451518 ° -121.040683 °	37.451518 ° -121.040683 °	84
59	4.12	4.20	Earthen Levee	Animal Control	WS	C	Exterminate rodents and backfill and compact or grout burrows.	37.451418 ° -121.040525 °	37.450489 ° -121.039639 °	85
60	4.15	4.15	Earthen Levee	Animal Control	LS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.451141 ° -121.040185 °	37.451141 ° -121.040185 °	86
61	4.21	4.24	Earthen Levee	Animal Control	WS	C	Exterminate rodents and backfill and compact or grout burrows.	37.450285 ° -121.039478 °	37.450011 ° -121.039244 °	43
62	4.23	4.23	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.450142 ° -121.039397 °	37.450142 ° -121.039397 °	53
63	4.23	4.29	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.450114 ° -121.039316 °	37.449388 ° -121.038810 °	87
64	4.38	4.44	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.448191 ° -121.038090 °	37.447408 ° -121.037651 °	89
65	4.50	4.66	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	37.446485 ° -121.038037 °	37.444290 ° -121.037953 °	64
66	4.72	4.72	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.443481 ° -121.037736 °	37.443481 ° -121.037736 °	13 Y
67	4.72	4.72	Earthen Levee	Trim / Thin Trees	LS	C	Trim and thin trees to allow visibility of the ground and room to flood fight.	37.443469 ° -121.037719 °	37.443469 ° -121.037719 °	11

*** Location**

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Reclamation District No. 1602 Del Puerto

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
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LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
68	4.78	4.78	Earthen Levee	Animal Control	WS	C	Exterminate rodents and backfill and compact or grout burrows.	37.442742 ° -121.037174 °	37.442742 ° -121.037174 °	93
69	4.92	4.92	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	37.440953 ° -121.036977 °	37.440953 ° -121.036977 °	14 Y
70	4.93	4.93	Earthen Levee	Animal Control	LS	C	Exterminate rodents and backfill and compact or grout burrows.	37.440850 ° -121.037045 °	37.440850 ° -121.037045 °	15
71	5.02	5.02	Earthen Levee	Encroachments	LS	C	Equipment	37.439549 ° -121.037506 °	37.439549 ° -121.037506 °	96
72	5.10	5.10	Earthen Levee	Animal Control	WS	C	Exterminate rodents and backfill and compact or grout burrows.	37.438538 ° -121.037172 °	37.438538 ° -121.037172 °	16
73	5.10	5.15	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.438428 ° -121.037197 °	37.437788 ° -121.037028 °	19
74	5.14	5.14	Earthen Levee	Animal Control	WS	C	Exterminate rodents and backfill and compact or grout burrows.	37.437911 ° -121.037043 °	37.437911 ° -121.037043 °	97
75	5.15	5.15	Earthen Levee	Encroachments	LS	C	Equipment	37.437859 ° -121.037034 °	37.437859 ° -121.037034 °	98
76	5.22	5.22	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.436699 ° -121.036593 °	37.436699 ° -121.036593 °	54
77	5.22	5.22	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.436717 ° -121.036596 °	37.436717 ° -121.036596 °	56
78	5.22	5.22	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.436723 ° -121.036580 °	37.436723 ° -121.036580 °	57
79	5.25	5.25	Earthen Levee	Animal Control	LS	C	Exterminate rodents and backfill and compact or grout burrows.	37.436522 ° -121.036397 °	37.436522 ° -121.036397 °	17
80	5.28	5.34	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.436155 ° -121.036153 °	37.435442 ° -121.035380 °	21
81	5.29	5.29	Earthen Levee	Trim / Thin Trees	WS	C	Thin trees to allow visibility of the ground and room to flood fight.	37.436050 ° -121.035921 °	37.436050 ° -121.035921 °	100
82	5.31	5.31	Earthen Levee	Trim / Thin Trees	WS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	37.435867 ° -121.035649 °	37.435867 ° -121.035649 °	101
83	5.34	5.34	Earthen Levee	Slope Stability	LS	M	Repair slope instability.	37.435533 ° -121.035371 °	37.435533 ° -121.035371 °	102 Y
84	5.34	5.34	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.435529 ° -121.035314 °	37.435529 ° -121.035314 °	60
85	5.36	5.36	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.435236 ° -121.035271 °	37.435236 ° -121.035271 °	61
86	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

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1602 Del Puerto

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Left	6.29	10/28/2010 10/28/2010	David Pesavento

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
87	5.40	5.40	Earthen Levee	Slope Stability	LS	M	Repair slope instability.	37.434699 ° -121.035063 °	37.434699 ° -121.035063 °	105 Y
88	5.51	5.54	Earthen Levee	Encroachments	LS	PO	Fences	37.433482 ° -121.033616 °	37.433299 ° -121.033338 °	22
89	5.80	5.80	Earthen Levee	Animal Control	WS	C	Exterminate rodents and backfill and compact or grout burrows.	37.433029 ° -121.028727 °	37.433029 ° -121.028727 °	108
90	5.83	5.86	Earthen Levee	Trim / Thin Trees	WS	C	Thin trees to allow visibility of the ground and room to flood fight.	37.433066 ° -121.028123 °	37.433108 ° -121.027612 °	109
91	5.91	5.91	Earthen Levee	Trim / Thin Trees	WS	C	Thin trees to allow visibility of the ground and room to flood fight.	37.433154 ° -121.026681 °	37.433154 ° -121.026681 °	66
92	6.17	6.17	Earthen Levee	Encroachments	WS	C	Landscaping Inspector Comments: Remove cactus from waterside of levee.	37.430308 ° -121.028663 °	37.430308 ° -121.028663 °	68
93	6.21	6.21	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.429815 ° -121.029087 °	37.429815 ° -121.029087 °	33

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.29	10/28/2010 10/28/2010	David Pesavento

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.11
Location	Crown
Category	Earthen Levee
Item	Encroachments

Looking at animal pens on crown of levee from LM 0.00 to 0.11

dpesaven_f_20100928_395.jpg



Levee Mile Report Line	3
Start Levee Mile	0.14
End Levee Mile	0.56
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of vegetation blocking visibility and access along the landward toe looking upstream.

dpesaven_f_20101029_500.jpg



Levee Mile Report Line	4
Start Levee Mile	0.56
End Levee Mile	0.56
Location	Water Side
Category	Earthen Levee
Item	Animal Control

View of rodent holes on the waterward slope looking waterward.

dpesaven_f_20101029_501.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.29	10/28/2010 10/28/2010	David Pesavento

Levee Mile Report Line	6
Start Levee Mile	0.60
End Levee Mile	0.72
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of barbed wire fence at landward toe looking upstream.

dpesaven_f_20100928_412.jpg



Levee Mile Report Line	11
Start Levee Mile	0.78
End Levee Mile	0.78
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Flap Gates

View of a flap gate with sediment preventing it from closing.

dpesaven_f_20100928_413.jpg



Levee Mile Report Line	15
Start Levee Mile	1.02
End Levee Mile	1.02
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Encroachments

PVC sleeve through steel pipe on waterward slope at LM 1.02

dpesaven_f_20100928_399.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.29	10/28/2010 10/28/2010	David Pesavento

Levee Mile Report Line	15
Start Levee Mile	1.02
End Levee Mile	1.02
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Encroachments

PVC pipe connected to steel pipe on landward toe at LM 1.02

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Levee Mile Report Line	16
Start Levee Mile	1.04
End Levee Mile	1.04
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Concrete Tilting / Settlement

Separation of outfall structure from the outlet pipe at LM 1.04.

dpesaven_f_20100928_407.jpg



Levee Mile Report Line	16
Start Levee Mile	1.04
End Levee Mile	1.04
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Concrete Tilting / Settlement

Additional view of outfall structure at LM 1.04.

dpesaven_f_20100928_408.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.29	10/28/2010 10/28/2010	David Pesavento

Levee Mile Report Line	17
Start Levee Mile	1.07
End Levee Mile	1.07
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

small amount of slumping at water toe

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Levee Mile Report Line	21
Start Levee Mile	1.32
End Levee Mile	1.32
Location	Water Side
Category	Earthen Levee
Item	Animal Control

View of vegetation along the landward slope and toe blocking visibility and access looking upstream.

dpesaven_f_20101029_502.jpg



Levee Mile Report Line	39
Start Levee Mile	2.76
End Levee Mile	2.76
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of now typical condition of the majority of the district's levee. Vegetation is well maintained and slopes appear to be adequately maintained.

dpesaven_f_20101029_503.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.29	10/28/2010 10/28/2010	David Pesavento

Levee Mile Report Line	52
Start Levee Mile	3.85
End Levee Mile	3.85
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Remove landscaping from within 10' of landside toe

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Levee Mile Report Line	53
Start Levee Mile	3.96
End Levee Mile	3.96
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Repair damage to USACE constructed seepage berm by pedestrian and cycle traffic at LM 3.96.

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Levee Mile Report Line	54
Start Levee Mile	3.97
End Levee Mile	4.07
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of a barbed wire fence on the landward slope looking upstream.

dpesaven_f_20100928_410.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.29	10/28/2010 10/28/2010	David Pesavento

Levee Mile Report Line	66
Start Levee Mile	4.72
End Levee Mile	4.72
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of rodent holes on the landward slope looking upstream.

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Levee Mile Report Line	69
Start Levee Mile	4.92
End Levee Mile	4.92
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of trees blocking visibility on the landward slope looking upstream.

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Levee Mile Report Line	83
Start Levee Mile	5.34
End Levee Mile	5.34
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

View of significant damage and erosion to the landward slope looking upstream.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.29	10/28/2010 10/28/2010	David Pesavento

Levee Mile Report Line	87
Start Levee Mile	5.40
End Levee Mile	5.40
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

View of tilling into the landward slope of the levee looking upstream. This slope has also been significantly damaged by rodent activity.

dpesaven_f_20100928_418.jpg



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