

**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***

<b>RD1602</b>	Overall LMA Rating	Total LMA Miles				
<b>Reclamation District No. 1602 Del Puerto</b>	<b>U</b>	<b>6.29</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	1.06		1.06	16.85%		
Trim / Thin Trees	0.20		0.20	3.18%		
Encroachments	0.12		0.12	1.91%	1.74	
Animal Control	2.81		2.81	44.67%		
Slope Stability	0.04		0.04	0.64%		
Erosion / Bank Caving	0.01		0.01	0.16%		
Crown Surface / Depressions / Rutting	0.47		0.47	7.47%		
Encroachments	0.01		0.01	0.16%		
Flap Gates	0.01		0.01	0.16%		
Concrete Tilting / Settlement	0.01		0.01	0.16%		
<i>LMA Totals:</i>	4.74	0.00	4.74	75.36%	1.74	0.00

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

**Reclamation District No. 1602 Del Puerto**

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	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 2009 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)			U	
Date of Inspection	3/10/2009		10/28/2009	
DWR Inspector	David Pesavento		David Pesavento	
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**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 1602 Del Puerto**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 San Joaquin River						Left	6.29	11/20/2009	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	0.58	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 °	7 Y
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 °	5 Y
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 °	8 Y
6	0.12	0.58	Earthen Levee	Vegetation	CR	C	Remove the wild growth other than native grasses from the levee slopes.	37.477237 ° -121.081935 °	37.480293 ° -121.074867 °	34
7	0.60	1.28	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.479968 ° -121.074582 °	37.478837 ° -121.064221 °	69 Y
8	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
9	0.71	0.71	Earthen Levee	Animal Control	CR	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.478639 ° -121.073598 °	37.478639 ° -121.073598 °	71 Y
10	0.73	0.73	Earthen Levee	Encroachments	WS	M	Debris Inspector Comments: Tires & trash at land toe	37.478489 ° -121.073388 °	37.478489 ° -121.073388 °	35 Y
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	0.99	0.99	Earthen Levee	Encroachments	WS	PO	Ramp	37.478719 ° -121.069072 °	37.478719 ° -121.069072 °	36
13	1.00	1.30	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.478776 ° -121.068922 °	° °	38 °
14	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  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 1602 Del Puerto**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Left	6.29	11/20/2009	David Pesavento

  

LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
15	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
16	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
17	1.25	1.28	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.478587 ° -121.064592 °	37.478838 ° -121.064220 °	73
18	1.64	1.64	Earthen Levee	Encroachments	WS	M	Prunings	37.477512 ° -121.058633 °	37.477512 ° -121.058633 °	56
19	1.66	1.66	Earthen Levee	Encroachments	LS	M	Prunings	37.477163 ° -121.058454 °	37.477163 ° -121.058454 °	57
20	1.79	2.01	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.475332 ° -121.057945 °	37.472273 ° -121.057879 °	74
21	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
22	1.97	1.97	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.472821 ° -121.057907 °	37.472821 ° -121.057907 °	75
23	2.17	2.17	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.470356 ° -121.056325 °	37.470356 ° -121.056325 °	77
24	2.17	2.17	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.470356 ° -121.056326 °	37.470356 ° -121.056326 °	76
25	2.24	3.45	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	37.470119 ° -121.055117 °	37.459606 ° -121.043240 °	59
26	2.33	2.33	Earthen Levee	Animal Control	LS	M	Repair the levee slope damaged by livestock and prevent large animal access.	37.470426 ° -121.053650 °	37.470426 ° -121.053650 °	78
27	2.33	2.33	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.470426 ° -121.053650 °	37.470426 ° -121.053650 °	79
28	2.43	2.55	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 °	37.469543 ° -121.049915 °	12
29	2.61	2.61	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.468952 ° -121.049003 °	37.468952 ° -121.049003 °	80 Y
30	2.84	2.95	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.466622 ° -121.046098 °	37.465462 ° -121.044806 °	41

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 1602 Del Puerto**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River							Left	6.29	11/20/2009	David Pesavento
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
31	3.49	3.49	Earthen Levee	Encroachments	LS	C	Debris Inspector Comments: Tire at land side toe.	37.459144 ° -121.043661 °	37.459144 ° -121.043661 °	60
32	3.55	3.55	Earthen Levee	Erosion / Bank Caving	WS	M	Schedule repair of erosion site prior to the next inspection. Inspector Comments: Irrigation pond has started to erode into the waterward toe.	37.458412 ° -121.044056 °	37.458412 ° -121.044056 °	81 Y
33	3.61	3.61	Earthen Levee	Animal Control	WS	M	Repair the levee slope damaged by livestock and prevent large animal access.	37.457624 ° -121.044539 °	37.457624 ° -121.044539 °	82 Y
34	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
35	3.85	3.85	Earthen Levee	Encroachments	LS	PO	Landscaping	37.454574 ° -121.043142 °	37.454574 ° -121.043142 °	42 Y
36	3.90	3.90	Earthen Levee	Encroachments	WS	M	Prunings	37.453879 ° -121.042745 °	37.453879 ° -121.042745 °	61
37	3.96	3.96	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Significant damage to Corps constructed seepage berm due to human activity.	37.453216 ° -121.042127 °	37.453216 ° -121.042127 °	62 Y
38	3.97	4.07	Earthen Levee	Encroachments	LS	PO	Fences	37.452983 ° -121.042301 °	37.451866 ° -121.041206 °	63 Y
39	4.11	4.11	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.451518 ° -121.040683 °	37.451518 ° -121.040683 °	84
40	4.12	4.20	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.451418 ° -121.040525 °	37.450489 ° -121.039639 °	85
41	4.15	4.15	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.451141 ° -121.040185 °	37.451141 ° -121.040185 °	86
42	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
43	4.23	4.29	Earthen Levee	Animal Control	LS		Exterminate rodents and backfill and compact or grout burrows.	37.450114 ° -121.039316 °	37.449388 ° -121.038810 °	87
44	4.33	4.33	Earthen Levee	Encroachments	WS	M	Tree or limb Inspector Comments: Remove tree stump and backfill and compact the cavity left in the waterward slope.	37.448823 ° -121.038474 °	37.448823 ° -121.038474 °	88 Y
45	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
46	4.50	4.66	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	37.446485 ° -121.038037 °	37.444290 ° -121.037953 °	64

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 1602 Del Puerto**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River							Left	6.29	11/20/2009	David Pesavento
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
47	4.52	4.52	Earthen Levee	Encroachments	LS	PO	Prunings	37.446197 ° -121.037967 °	37.446197 ° -121.037967 °	44 Y
48	4.56	4.58	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.445763 ° -121.037773 °	37.445504 ° -121.037729 °	90 Y
49	4.66	4.66	Earthen Levee	Encroachments	LS	M	Prunings	37.444321 ° -121.037904 °	37.444321 ° -121.037904 °	65
50	4.67	4.67	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.444150 ° -121.037947 °	37.444150 ° -121.037947 °	91
51	4.69	4.69	Earthen Levee	Encroachments	WS	M	Tree or limb	37.443966 ° -121.037964 °	37.443966 ° -121.037964 °	92
52	4.78	4.78	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.442742 ° -121.037174 °	37.442742 ° -121.037174 °	93
53	4.87	4.87	Earthen Levee	Encroachments	LS	M	Prunings	37.441550 ° -121.036583 °	37.441550 ° -121.036583 °	94
54	4.98	4.98	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.440218 ° -121.037426 °	37.440218 ° -121.037426 °	95
55	5.02	5.02	Earthen Levee	Encroachments	LS	M	Equipment	37.439549 ° -121.037506 °	37.439549 ° -121.037506 °	96 Y
56	5.10	5.15	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level. Inspector Comments: Leaves have fallen from the branches, but low branches are still present.	37.438428 ° -121.037197 °	37.437788 ° -121.037028 °	19
57	5.14	5.14	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.437911 ° -121.037043 °	37.437911 ° -121.037043 °	97
58	5.15	5.15	Earthen Levee	Encroachments	LS	M	Equipment	37.437859 ° -121.037034 °	37.437859 ° -121.037034 °	98 Y
59	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
60	5.27	5.27	Earthen Levee	Encroachments	LS	M	Debris	37.436212 ° -121.036123 °	37.436212 ° -121.036123 °	99
61	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
62	5.29	5.29	Earthen Levee	Trim / Thin Trees	WS	M	Thin trees to allow visibility of the ground and room to flood fight.	37.436050 ° -121.035921 °	37.436050 ° -121.035921 °	100
63	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

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 1602 Del Puerto**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River							Left	6.29	11/20/2009	David Pesavento
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
64	5.34	5.34	Earthen Levee	Slope Stability	LS	M	Repair slope instability.	37.435533 ° -121.035371 °	37.435533 ° -121.035371 °	102 Y
65	5.34	5.34	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.435462 ° -121.035345 °	37.435462 ° -121.035345 °	103
66	5.36	5.36	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	37.435223 ° -121.035318 °	37.435223 ° -121.035318 °	24
67	5.36	5.36	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.435243 ° -121.035277 °	37.435243 ° -121.035277 °	104
68	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
69	5.40	5.40	Earthen Levee	Slope Stability	LS	M	Repair slope instability.	37.434699 ° -121.035063 °	37.434699 ° -121.035063 °	105 Y
70	5.40	5.40	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.434698 ° -121.035060 °	37.434698 ° -121.035060 °	106
71	5.40	5.40	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.434698 ° -121.035060 °	37.434698 ° -121.035060 °	107
72	5.80	5.80	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.433029 ° -121.028727 °	37.433029 ° -121.028727 °	108
73	5.83	5.86	Earthen Levee	Trim / Thin Trees	WS	M	Thin trees to allow visibility of the ground and room to flood fight.	37.433066 ° -121.028123 °	37.433108 ° -121.027612 °	109
74	5.91	5.91	Earthen Levee	Trim / Thin Trees	WS	M	Thin trees to allow visibility of the ground and room to flood fight.	37.433154 ° -121.026681 °	37.433154 ° -121.026681 °	66
75	5.95	5.95	Earthen Levee	Encroachments	WS	M	Prunings	37.432776 ° -121.026166 °	37.432776 ° -121.026166 °	67
76	6.06	6.12	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.431505 ° -121.027326 °	37.430918 ° -121.027919 °	110
77	6.17	6.17	Earthen Levee	Encroachments	WS	PO	Landscaping Inspector Comments: Remove cactus from waterside of levee.	37.430308 ° -121.028663 °	37.430308 ° -121.028663 °	68
78	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

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 1602 Del Puerto**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.29	11/20/2009	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_20091028_279.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.11
End Levee Mile	0.58
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Levee overgrown-mow weeds/wild growth on crown, waterside & landside	
dpesaven_20091028_281.JPG	



Levee Mile Report Line	4
Start Levee Mile	0.11
End Levee Mile	0.58
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Vegetation overgrown of levee crown from LM 0.11 to 0.58	
dpesaven_20091028_280.jpg	

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Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 1602 Del Puerto**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.29	11/20/2009	David Pesavento

Levee Mile Report Line	5
Start Levee Mile	0.11
End Levee Mile	1.12
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Typical picture of animal borrows on landward slope from LM 0.11 to 0.58

dpesaven\_20091028\_282.jpg



Levee Mile Report Line	7
Start Levee Mile	0.60
End Levee Mile	1.28
Location	Water Side
Category	Earthen Levee
Item	Animal Control

View of rodent holes in the waterward slope looking upstream.

dpesaven\_20091120\_495.jpg



Levee Mile Report Line	8
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\_20091120\_496.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 1602 Del Puerto**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.29	11/20/2009	David Pesavento

Levee Mile Report Line	9
Start Levee Mile	0.71
End Levee Mile	0.71
Location	Crown
Category	Earthen Levee
Item	Animal Control

View of rodent holes in the crown that go through to the landward side.

dpesaven\_20091120\_497.jpg



Levee Mile Report Line	10
Start Levee Mile	0.73
End Levee Mile	0.73
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Remove debris within 10 feet of landside toe

dpesaven\_20091028\_285.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\_20091120\_498.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 1602 Del Puerto**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.29	11/20/2009	David Pesavento

Levee Mile Report Line	14
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_20091028_283.jpg	



Levee Mile Report Line	14
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	
dpesaven_20091028_284.jpg	



Levee Mile Report Line	15
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_20091028_289.jpg	

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 1602 Del Puerto**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.29	11/20/2009	David Pesavento

Levee Mile Report Line	15
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\_20091028\_290.jpg



Levee Mile Report Line	16
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

dpesaven\_20091028\_286.JPG



Levee Mile Report Line	29
Start Levee Mile	2.61
End Levee Mile	2.61
Location	Land Side
Category	Earthen Levee
Item	Vegetation

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

dpesaven\_20091120\_499.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 1602 Del Puerto**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.29	11/20/2009	David Pesavento

Levee Mile Report Line	32
Start Levee Mile	3.55
End Levee Mile	3.55
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of an irrigation pond on the waterward side of the levee that is encroaching into the slope looking upstream.

dpesaven\_20091120\_500.jpg



Levee Mile Report Line	33
Start Levee Mile	3.61
End Levee Mile	3.61
Location	Water Side
Category	Earthen Levee
Item	Animal Control

View of a large rodent hole in the waterward slope.

dpesaven\_20091120\_501.jpg



Levee Mile Report Line	35
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

dpesaven\_20091028\_287.JPG



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 1602 Del Puerto**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.29	11/20/2009	David Pesavento

Levee Mile Report Line	37
Start Levee Mile	3.96
End Levee Mile	3.96
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

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

dpesaven\_20091028\_291.jpg



Levee Mile Report Line	38
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\_20091120\_502.jpg



Levee Mile Report Line	44
Start Levee Mile	4.33
End Levee Mile	4.33
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of a stump and remaining cavity in the waterward slope looking upstream.

dpesaven\_20091120\_503.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 1602 Del Puerto**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.29	11/20/2009	David Pesavento

Levee Mile Report Line	47
Start Levee Mile	4.52
End Levee Mile	4.52
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of prunings on waterward slope looking downstream.

dpesaven\_20091028\_288.JPG



Levee Mile Report Line	48
Start Levee Mile	4.56
End Levee Mile	4.58
Location	Land Side
Category	Earthen Levee
Item	Vegetation

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

dpesaven\_20091120\_504.jpg



Levee Mile Report Line	55
Start Levee Mile	5.02
End Levee Mile	5.02
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of equipment at the landward toe blocking visibility and access.

dpesaven\_20091120\_505.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 1602 Del Puerto**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.29	11/20/2009	David Pesavento

Levee Mile Report Line	58
Start Levee Mile	5.15
End Levee Mile	5.15
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of a trailer at the landward toe blocking visibility and access looking upstream.

dpesaven\_20091120\_506.jpg



Levee Mile Report Line	64
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.

dpesaven\_20091120\_507.jpg



Levee Mile Report Line	69
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\_20091120\_508.jpg



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