

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

Reclamation District No. 0524

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

** 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
Spring 2009 Levee Inspection Results
Reclamation District No. 0524**

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

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/28/2009 - 4/28/2009			
DWR Inspector	Richard Willoughby			
Accompanied By	Mario Jaques RD 524			

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 - Spring 2009

Reclamation District No. 0524

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.30	04/28/2009 04/28/2009	Richard Willoughby

LMR Line	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue
	Start	End						Start	End		
1	0.00	6.26	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	° 37.870308 °	° -121.329805 °		935
2	0.00	6.26	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	° 37.870310 °	° -121.329805 °		934
3	0.22	0.22	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage.	37.938890 ° -121.343657 °	37.938890 ° -121.343657 °		3
4	0.36	0.36	Earthen Levee	Encroachments	LS	M	Garbage	37.938338 ° -121.341290 °	37.938338 ° -121.341290 °	Y	15
5	0.38	0.39	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.938527 ° -121.340887 °	37.938553 ° -121.340778 °	Y	4
6	0.39	0.43	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.938555 ° -121.340870 °	37.938642 ° -121.339990 °		5
7	0.48	0.49	Earthen Levee	Erosion / Bank Caving	WS	U	Schedule repair of erosion site prior to the next inspection.	37.938693 ° -121.339063 °	37.938693 ° -121.338993 °	Y	6
8	0.51	0.52	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.938682 ° -121.338518 °	37.938657 ° -121.338425 °	Y	7
9	0.53	0.54	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.938623 ° -121.338182 °	37.938617 ° -121.338045 °		8
10	0.58	0.59	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.938512 ° -121.337335 °	37.938495 ° -121.337212 °		9
11	0.63	0.63	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by foot traffic and prevent access where possible.	37.938247 ° -121.336503 °	37.938247 ° -121.336503 °		10
12	0.63	0.64	Earthen Levee	Vegetation	WS	U	Remove the wild growth other than native grasses from the levee slopes.	37.938247 ° -121.336503 °	37.938197 ° -121.336405 °		11
13	0.64	0.64	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage.	37.938198 ° -121.336407 °	37.938198 ° -121.336407 °	Y	12
14	0.65	0.66	Earthen Levee	Slope Stability	WS	M	Repair slope instability.	37.938105 ° -121.336288 °	37.938023 ° -121.336173 °	Y	13
15	0.68	0.68	Earthen Levee	Vegetation	WS	U	Remove the wild growth other than native grasses from the levee slopes.	37.937808 ° -121.335913 °	37.937808 ° -121.335913 °	Y	14
16	0.79	0.79	Boat Survey	Boat Survey Erosion	WS	M	Inspector Comments: Another site near Site 9.5 about 50 ft. upstream of fence; exposed pipe	37.936540 ° -121.334810 °	° °		913

*** Location**
 LS : Land Side
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable
 M : Minimally Acceptable
 U : Unacceptable
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 CO : Completely Obstructing
 N : Not Inspected
 C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Reclamation District No. 0524

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.30	04/28/2009 04/28/2009	Richard Willoughby

LMR Line	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue
	Start	End						Start	End		
17	0.79	0.79	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.936444 ° -121.334797 °	37.936444 ° -121.334797 °		76
18	0.81	0.81	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.936217 ° -121.334698 °	37.936217 ° -121.334698 °		16
19	0.94	1.02	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.935259 ° -121.332864 °	37.935049 ° -121.331334 °		77
20	1.01	1.03	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.935098 ° -121.331645 °	37.935018 ° -121.331248 °		17
21	1.09	1.09	Earthen Levee	Slope Stability	LS	M	Repair slope instability.	37.934645 ° -121.330310 °	37.934645 ° -121.330310 °	Y	18
22	1.14	1.17	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees over roadway to at least 12 feet above ground level.	37.934118 ° -121.329657 °	37.933775 ° -121.329305 °		19
23	1.17	1.25	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.933775 ° -121.329250 °	37.932784 ° -121.328765 °		915
24	1.25	1.25	Earthen Levee	Encroachments	LS	M	Garbage	37.932665 ° -121.328808 °	37.932665 ° -121.328808 °	Y	20
25	1.32	1.33	Earthen Levee	Erosion / Bank Caving	WS	M	Schedule repair of erosion site prior to the next inspection.	37.931858 ° -121.328308 °	37.931692 ° -121.328282 °	Y	21
26	1.41	1.42	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.930575 ° -121.328098 °	37.930420 ° -121.328245 °		22
27	1.51	1.51	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	° °	° °		916
28	1.56	1.74	Earthen Levee	Encroachments	LS	CO	Landscaping	37.928352 ° -121.328307 °	37.926497 ° -121.326248 °	Y	23
29	1.62	1.66	Earthen Levee	Crown Surface / Depressions / Rutting	CR	U	Regrade the crown roadway for proper drainage.	37.927658 ° -121.327865 °	37.927255 ° -121.327164 °		24
30	1.62	1.63	Earthen Levee	Vegetation	WS	U	Remove the wild growth other than native grasses from the levee slopes.	37.927635 ° -121.327812 °	37.927540 ° -121.327648 °		25
31	1.63	1.66	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.927507 ° -121.327593 °	37.927295 ° -121.327298 °		26
32	1.71	1.77	Earthen Levee	Slope Stability	WS	M	Repair slope instability.	37.926728 ° -121.326597 °	37.926142 ° -121.325972 °		27
33	1.75	1.76	Earthen Levee	Encroachments	LS	U	Garbage	37.926387 ° -121.326148 °	37.926240 ° -121.326063 °	Y	28

* 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 - Spring 2009

Reclamation District No. 0524

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.30	04/28/2009 04/28/2009	Richard Willoughby

LMR Line	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue
	Start	End						Start	End		
34	1.92	1.96	Earthen Levee	Encroachments	LS	PO	Landscaping	37.924364 ° -121.324473 °	37.923790 ° -121.324266 °		78
35	1.96	1.98	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	37.923685 ° -121.324235 °	37.923493 ° -121.324167 °		29
36	2.17	2.18	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.921383 ° -121.322043 °	37.921300 ° -121.321902 °		30
37	2.18	2.21	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes.	37.921266 ° -121.321862 °	37.921018 ° -121.321464 °		79
38	2.22	2.28	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.920992 ° -121.321373 °	37.920505 ° -121.320485 °		31
39	2.29	2.31	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.920372 ° -121.320230 °	37.920273 ° -121.320022 °		32
40	2.32	2.35	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.920075 ° -121.319778 °	37.919702 ° -121.319700 °		33
41	2.34	2.35	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.919885 ° -121.319713 °	37.919703 ° -121.319702 °		34
42	2.46	2.50	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.918628 ° -121.320817 °	37.918438 ° -121.321452 °		36
43	2.47	2.48	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.918575 ° -121.320980 °	37.918515 ° -121.321110 °		35
44	2.48	2.52	Earthen Levee	Encroachments	WS	M	Garbage	37.918504 ° -121.321085 °	37.918300 ° -121.321790 °		81
45	2.48	2.48	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.918480 ° -121.321114 °	37.918480 ° -121.321114 °		80
46	2.52	2.52	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.918345 ° -121.321765 °	37.918302 ° -121.321923 °		37
47	2.53	2.53	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	37.918287 ° -121.321980 °	37.918287 ° -121.321980 °		38
48	2.54	2.54	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.918242 ° -121.322125 °	37.918187 ° -121.322247 °		39
49	2.55	2.59	Earthen Levee	Slope Stability	LS	M	Repair slope instability.	37.918060 ° -121.322384 °	37.917667 ° -121.322713 °		82
50	2.56	2.56	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.918047 ° -121.322415 °	37.918047 ° -121.322415 °		40

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

Levee Inspection Report By Mile - Spring 2009

Reclamation District No. 0524

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.30	04/28/2009 04/28/2009	Richard Willoughby

LMR Line	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue
	Start	End						Start	End		
51	2.59	2.59	Earthen Levee	Encroachments	LS	M	Garbage	37.917673 ° -121.322718 °	37.917673 ° -121.322718 °		41
52	2.59	2.60	Earthen Levee	Encroachments	LS	CO	Buildings	37.917673 ° -121.322723 °	37.917555 ° -121.322778 °		42
53	2.60	2.60	Earthen Levee	Animal Control	LS	M	Repair the levee slope damaged by livestock and prevent large animal access.	37.917475 ° -121.322808 °	37.917475 ° -121.322808 °		917
54	2.66	2.66	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.916780 ° -121.322095 °	37.916780 ° -121.322095 °		43
55	2.67	2.69	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.916718 ° -121.322020 °	37.916502 ° -121.321980 °		918
56	2.67	2.67	Earthen Levee	Encroachments	WS	M	Ramp	37.916698 ° -121.322007 °	37.916698 ° -121.322007 °		920
57	2.67	2.67	Earthen Levee	Erosion / Bank Caving	WS	M	Schedule repair of erosion site prior to the next inspection.	37.916650 ° -121.321987 °	37.916650 ° -121.321987 °		919
58	2.71	2.73	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.916180 ° -121.322165 °	37.915947 ° -121.322357 °		44
59	2.74	2.83	Earthen Levee	Trim / Thin Trees	LS	U	Trim trees to at least five feet above ground level.	37.915813 ° -121.322485 °	37.914963 ° -121.323605 °		45
60	2.78	2.79	Earthen Levee	Encroachments	LS	PO	Landscaping	37.915285 ° -121.322813 °	37.915175 ° -121.322983 °	Y	46
61	2.79	2.81	Earthen Levee	Slope Stability	LS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	37.915173 ° -121.322982 °	37.915098 ° -121.323183 °		47
62	2.81	2.81	Earthen Levee	Encroachments	WS	M	Prunings	37.915125 ° -121.323227 °	37.915125 ° -121.323227 °		921
63	2.82	2.82	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.915022 ° -121.323443 °	37.915022 ° -121.323443 °		48
64	2.88	2.88	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.914427 ° -121.324198 °	37.914427 ° -121.324198 °		49
65	2.93	2.95	Earthen Levee	Encroachments	LS	M	Prunings	37.913767 ° -121.324427 °	37.913503 ° -121.324488 °		50
66	2.96	2.96	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.913415 ° -121.324503 °	37.913415 ° -121.324503 °		51

*** Location**
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Reclamation District No. 0524

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.30	04/28/2009 04/28/2009	Richard Willoughby

LMR Line	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue
	Start	End						Start	End		
67	2.97	2.97	Interior Drainage & Piping Systems	Erosion Areas	WS	M		37.913152 ° -121.324493 °	37.913152 ° -121.324493 °		922
68	2.98	2.98	Earthen Levee	Erosion / Bank Caving	WS	M	Schedule repair of erosion site prior to the next inspection.	37.913057 ° -121.324508 °	37.913057 ° -121.324508 °		923
69	3.04	3.04	Earthen Levee	Animal Control	LS	M	Repair the levee slope damaged by livestock and prevent large animal access.	37.912163 ° -121.324702 °	37.912163 ° -121.324702 °		924
70	3.10	3.12	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.911382 ° -121.324928 °	37.911088 ° -121.325113 °		925
71	3.33	3.35	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.908158 ° -121.325418 °	37.907872 ° -121.325443 °		926
72	3.37	3.40	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.907645 ° -121.325442 °	37.907157 ° -121.325408 °		52
73	3.39	3.45	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.907283 ° -121.325432 °	37.906503 ° -121.325002 °		53
74	3.43	3.49	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	37.906747 ° -121.325248 °	37.906192 ° -121.324543 °		54
75	3.45	3.45	Earthen Levee	Encroachments	LS	M	Garbage	37.906503 ° -121.325002 °	37.906503 ° -121.325002 °		55
76	3.47	3.49	Earthen Levee	Encroachments	LS	M	Prunings	37.906295 ° -121.324730 °	37.906192 ° -121.324545 °		56
77	3.54	3.64	Earthen Levee	Trim / Thin Trees	LS	U	Trim and thin trees to allow visibility of the ground and room to flood fight.	37.905638 ° -121.323892 °	37.904430 ° -121.324570 °		57
78	3.68	3.68	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by foot traffic and prevent access where possible.	37.904113 ° -121.325080 °	37.904113 ° -121.325080 °		58
79	3.80	3.80	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.902645 ° -121.326340 °	37.902645 ° -121.326340 °		927
80	3.82	3.82	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.902417 ° -121.326482 °	37.902417 ° -121.326482 °		59
81	3.84	3.85	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.902155 ° -121.326523 °	37.902002 ° -121.326550 °		928
82	3.88	4.02	Earthen Levee	Encroachments	WS	M	Prunings	37.901582 ° -121.326547 °	37.899602 ° -121.326685 °	Y	60

*** Location**
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**** Rating**
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Reclamation District No. 0524

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.30	04/28/2009 04/28/2009	Richard Willoughby

LMR Line	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue
	Start	End						Start	End		
83	3.89	3.89	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.901463 ° -121.326528 °	37.901463 ° -121.326528 °		61
84	3.89	4.01	Earthen Levee	Encroachments	LS	M	Equipment	37.901375 ° -121.326507 °	37.899745 ° -121.326630 °	Y	62
85	3.91	3.91	Earthen Levee	Encroachments	WS	M	Garbage	37.901170 ° -121.326482 °	37.901170 ° -121.326482 °	Y	929
86	3.93	3.93	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.900854 ° -121.326438 °	37.900854 ° -121.326438 °		83
87	4.05	4.05	Earthen Levee	Encroachments	LS	M	Garbage	37.899127 ° -121.326938 °	37.899127 ° -121.326938 °	Y	63
88	4.08	4.13	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.898832 ° -121.327092 °	37.898090 ° -121.327457 °		64
89	4.19	4.19	Earthen Levee	Encroachments	WS	M	Garbage	37.897252 ° -121.327905 °	37.897252 ° -121.327905 °		930
90	4.40	4.56	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.894587 ° -121.329253 °	37.892493 ° -121.328267 °		65
91	4.64	4.64	Earthen Levee	Encroachments	LS	M	Garbage	37.891428 ° -121.328642 °	37.891428 ° -121.328642 °	Y	66
92	4.64	4.64	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.891365 ° -121.328680 °	37.891365 ° -121.328680 °		67
93	4.98	4.98	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.887277 ° -121.331609 °	37.887277 ° -121.331609 °		84
94	5.24	5.24	Earthen Levee	Encroachments	LS	M	Prunings	37.883657 ° -121.332132 °	37.883657 ° -121.332132 °		68
95	5.33	5.35	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.882377 ° -121.332598 °	37.882076 ° -121.332676 °		85
96	5.46	5.46	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.880575 ° -121.332890 °	37.880575 ° -121.332890 °		931
97	5.49	5.49	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.880055 ° -121.333048 °	37.880055 ° -121.333048 °		932
98	5.65	5.65	Boat Survey	Boat Survey Erosion	WS	M	Inspector Comments: Old site repaired; new erosion forming, near-vertical scarp just above rip rap; u.s of Howards Road Bridge near abutment; steep slope	37.877880 ° -121.332550 °	° °		914

* 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 - Spring 2009

Reclamation District No. 0524

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.30	04/28/2009 04/28/2009	Richard Willoughby

LMR Line	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue
	Start	End						Start	End		
99	5.84	5.84	Earthen Levee	Encroachments	LS	M	Prunings	37.875370 ° -121.333052 °	37.875370 ° -121.333052 °		70
100	5.86	5.86	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.875073 ° -121.333168 °	37.875073 ° -121.333168 °		69
101	5.87	5.87	Earthen Levee	Encroachments	CR	M	Pipe	37.875002 ° -121.333222 °	37.875002 ° -121.333222 °	Y	71
102	5.87	5.87	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage.	37.874983 ° -121.333225 °	37.874983 ° -121.333225 °		72
103	5.92	5.94	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.874240 ° -121.333187 °	37.874002 ° -121.333027 °		75
104	5.92	5.92	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.874240 ° -121.333185 °	37.874165 ° -121.333155 °	Y	74
105	5.92	5.92	Earthen Levee	Encroachments	CR	M	Pipe	37.874240 ° -121.333180 °	37.874240 ° -121.333180 °	Y	73
106	5.97	5.97	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.873678 ° -121.332550 °	37.873678 ° -121.332550 °		86
107	5.99	6.00	Earthen Levee	Encroachments	LS	PO	Fences	37.873545 ° -121.332308 °	37.873445 ° -121.332127 °		87
108	5.99	6.00	Earthen Levee	Encroachments	LS	PO	Landscaping	37.873543 ° -121.332308 °	37.873445 ° -121.332127 °		88
109	6.01	6.05	Earthen Levee	Encroachments	LS	CO	Buildings	37.873377 ° -121.331977 °	37.873102 ° -121.331382 °	Y	89
110	6.05	6.05	Earthen Levee	Erosion / Bank Caving	WS	M	Schedule repair of erosion site prior to the next inspection.	37.873047 ° -121.331408 °	37.873047 ° -121.331408 °		933

<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> <p>C : Corrected</p>
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Reclamation District No. 0524

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.30	04/28/2009 04/28/2009	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.36
End Levee Mile	0.36
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Garbage pile at landward toe at LM 0.36	



Levee Mile Report Line	5
Start Levee Mile	0.38
End Levee Mile	0.39
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Minor erosion from LM 0.38 to 0.39	



Levee Mile Report Line	7
Start Levee Mile	0.48
End Levee Mile	0.49
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Major erosion from LM 0.48 to 0.49	



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Reclamation District No. 0524

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.30	04/28/2009 04/28/2009	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	0.51
End Levee Mile	0.52
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Erosion from LM 0.51 to 0.52	



Levee Mile Report Line	13
Start Levee Mile	0.64
End Levee Mile	0.64
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Large hole 3 x 3 on levee crown near waterside shoulder at LM 0.64	



Levee Mile Report Line	14
Start Levee Mile	0.65
End Levee Mile	0.66
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Erosion from LM 0.65 to 0.66	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Reclamation District No. 0524

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.30	04/28/2009 04/28/2009	Richard Willoughby

Levee Mile Report Line	15
Start Levee Mile	0.68
End Levee Mile	0.68
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Bamboo on waterward slope at LM 0.68	



Levee Mile Report Line	21
Start Levee Mile	1.09
End Levee Mile	1.09
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Landward slope damage at LM 1.09	



Levee Mile Report Line	24
Start Levee Mile	1.25
End Levee Mile	1.25
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Concrete rubble with rebar on landward shoulder at LM 1.25	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Reclamation District No. 0524

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.30	04/28/2009 04/28/2009	Richard Willoughby

Levee Mile Report Line	25
Start Levee Mile	1.32
End Levee Mile	1.33
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Erosion from LM 1.32 to 1.33	



Levee Mile Report Line	28
Start Levee Mile	1.56
End Levee Mile	1.74
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Overgrown landscaping on landward slope from LM 1.56 to 1.74	



Levee Mile Report Line	33
Start Levee Mile	1.75
End Levee Mile	1.76
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Garbage on landward toe from LM 1.75 to 1.76	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Reclamation District No. 0524

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.30	04/28/2009 04/28/2009	Richard Willoughby

Levee Mile Report Line	60
Start Levee Mile	2.78
End Levee Mile	2.79
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping (Cactus) on landward slope from LM 2.78 to 2.79	



Levee Mile Report Line	82
Start Levee Mile	3.88
End Levee Mile	4.02
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking upstream at prunings on waterside slope	



Levee Mile Report Line	84
Start Levee Mile	3.89
End Levee Mile	4.01
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking upstream at equipment on landside shoulder	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Reclamation District No. 0524

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.30	04/28/2009 04/28/2009	Richard Willoughby

Levee Mile Report Line	85
Start Levee Mile	3.91
End Levee Mile	3.91
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking at garbage (pallets) on waterside slope.	



Levee Mile Report Line	87
Start Levee Mile	4.05
End Levee Mile	4.05
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Garbage at landward toe at LM 4.05	



Levee Mile Report Line	91
Start Levee Mile	4.64
End Levee Mile	4.64
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Garbage at landward toe next to ramp at LM 4.64	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Reclamation District No. 0524

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.30	04/28/2009 04/28/2009	Richard Willoughby

Levee Mile Report Line	101
Start Levee Mile	5.87
End Levee Mile	5.87
Location	Crown
Category	Earthen Levee
Item	Encroachments
Abandoned pipe at LM 5.87 wateside view	



Levee Mile Report Line	101
Start Levee Mile	5.87
End Levee Mile	5.87
Location	Crown
Category	Earthen Levee
Item	Encroachments
Abandoned pipe at LM 5.87 landside view	



Levee Mile Report Line	104
Start Levee Mile	5.92
End Levee Mile	5.92
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Erosion at waterward toe at LM 5.92	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Reclamation District No. 0524

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.30	04/28/2009 04/28/2009	Richard Willoughby

Levee Mile Report Line	105
Start Levee Mile	5.92
End Levee Mile	5.92
Location	Crown
Category	Earthen Levee
Item	Encroachments
Abandoned pipe at LM 5.92 waterside view	



Levee Mile Report Line	109
Start Levee Mile	6.01
End Levee Mile	6.05
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking downstream at building on landside toe.	



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