

**Flood Control Project Maintenance
Levee Inspections**

Fall 2012 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD0524	Overall LMA Rating	Total LMA Miles						
Reclamation District No. 0524 Middle Roberts Island	U	6.26						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.27	0.29	1.43	22.84%	0.07	0.02		
Trim / Thin Trees	0.73	0.22	1.61	25.72%				
Encroachments	0.22	0.02	0.30	4.79%	0.11	0.09		
Animal Control	0.35		0.35	5.59%				
Slope Stability	0.14	0.02	0.22	3.51%				
Erosion / Bank Caving	0.19	0.33	1.51	24.12%				
Crown Surface / Depressions / Rutting	0.01		0.01	0.16%				
Operations & Maintenance Manuals	0.06		0.06	0.96%				
Flood Preparedness & Training	0.06		0.06	0.96%				
<i>Interior Drainage & Piping Systems</i>								
Metal Pipes	0.01		0.01	0.16%				
<i>Supplemental</i>								
DWR Erosion Survey	0.07	0.29	1.23	19.65%				
LMA Totals:	2.12	1.17	6.80	108.63%	0.18	0.11	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2012 Levee Inspection Results

Reclamation District No. 0524 Middle Roberts Island

	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 2012 Levee Inspection Results

Reclamation District No. 0524 Middle Roberts Island

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	6.26
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	05/08/2012 - 05/09/2012		10/09/2012 - 10/11/2012	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Mario Jaques RD 524		Mario Jaques RD 524	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River					Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End					Start	End	Photo
1	0.00	0.00	Earthen Levee	Operations & Maintenance Manuals	WS M Ma		°	°	121
DWR ID: DWR_RD0524_01_s_2012_121									
2	0.00	0.00	Earthen Levee	Emergency Supplies & Equipment	WS A Ma		°	°	122
DWR ID: DWR_RD0524_01_s_2012_122									
3	0.00	0.00	Earthen Levee	Flood Preparedness & Training	WS M Ma		°	°	123
DWR ID: DWR_RD0524_01_s_2012_123									
4	0.22	0.22	Earthen Levee	Crown Surface / Depressions / Rutting	CR M Ma	C2 : Repair depressions or ruts in the crown or slope.	37.938890 ° -121.343657 °	37.938890 ° -121.343657 °	3 Y
DWR ID: DWR_RD0524_01_s_2012_3									
5	0.36	0.36	Earthen Levee	Encroachments	LS M Ma	GA : Garbage	37.938338 ° -121.341290 °	37.938338 ° -121.341290 °	15 Y
DWR ID: DWR_RD0524_01_s_2012_15									
6	0.40	0.40	Supplemental	DWR Erosion Survey	WS U Ma	Inspector Comments: 8/7/2012: Erosion is at the upper levee slope, and likely caused by slope slip. The lower levee slope is covered with dense vegetation. [2012 Site ID:RD0524U01RM40.99]	37.938870 ° -121.340460 °	37.938870 ° -121.340460 °	1 Y
DWR ID:									
7	0.41	0.73	Earthen Levee	Erosion / Bank Caving	LS U Ma	Inspector Comments: Landside erosion caused by run-off.	37.938625 ° -121.340388 °	37.937170 ° -121.335260 °	20 Y
DWR ID: DWR_RD0524_01_s_2012_20									
8	0.53	0.60	Supplemental	DWR Erosion Survey	WS C Ma	Inspector Comments: 08/07/2012: The site has been visited by boat survey. The site seems to have been repaired. 08/23/2011: No significant changes observed on site. 09/07/2010: No significant changes observed on site. Some emergent vegetation at the lower and middle slope. Existing revetment is no longer adequately protecting the oversteepened slope. Some of the broken concrete used as revetment has slid, dragging levee materials away from the slope and creating notches. 09/29/2009: Erosion site extends from RM 41.11 to 41.18; existing revetment is no longer adequately protecting the oversteepened slope. 2008: Existing concrete slabs were placed as temporary fix; some of the slabs have started to slide, dragging levee materials away from the slope and creating notches; note that a sewage treatment plant is located on the landside of the levee. [2012 Site ID:RD0524U01RM41.15]	37.938895 ° -121.337602 °	37.938895 ° -121.337602 °	2
DWR ID:									
9	0.63	0.63	Earthen Levee	Slope Stability	WS M Ma	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.	37.938247 ° -121.336503 °	37.938247 ° -121.336503 °	10 Y
DWR ID: DWR_RD0524_01_s_2012_10									

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River						Left	6.26	10/09/2012 10/11/2012	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location * + Rating + Ma	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
10	0.63	0.64	Earthen Levee	Vegetation	WS U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.938247 ° -121.336503 °	37.938197 ° -121.336405 °	11 Y
DWR ID: DWR_RD0524_01_s_2012_11									
11	0.65	0.66	Earthen Levee	Slope Stability	WS M Ma	S1 : Repair slope instability.	37.938105 ° -121.336288 °	37.938023 ° -121.336173 °	13 Y
DWR ID: DWR_RD0524_01_s_2012_13									
12	0.68	0.68	Earthen Levee	Vegetation	WS U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.937808 ° -121.335913 °	37.937808 ° -121.335913 °	14 Y
DWR ID: DWR_RD0524_01_s_2012_14									
13	0.77	0.78	Supplemental	DWR Erosion Survey	WS U Ma	Inspector Comments: 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: The site is located immediately upstream of a Railroad bridge. Dense vegetation at the water line interferes the view of erosion. [2012 Site ID:RD0524U01RM41.39]	37.936821 ° -121.334582 °	37.936821 ° -121.334582 °	5 Y
DWR ID:									
14	0.78	0.78	Earthen Levee	Vegetation	LS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dense vegetation at landside toe along fence line.	37.936555 ° -121.334847 °	37.936555 ° -121.334847 °	262 Y
DWR ID: DWR_RD0524_01_s_2012_262									
15	0.79	0.79	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.	37.936444 ° -121.334797 °	37.936444 ° -121.334797 °	76 Y
DWR ID: DWR_RD0524_01_s_2012_76									
16	0.81	0.81	Earthen Levee	Erosion / Bank Caving	WS M Ma	E1 : Note and monitor erosion site.	37.936217 ° -121.334698 °	37.936217 ° -121.334698 °	16 Y
DWR ID: DWR_RD0524_01_s_2012_16									
17	0.91	0.91	Supplemental	DWR Erosion Survey	WS M Ma	Inspector Comments: 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: The erosion site is immediately downstream of the riprap protection. [2012 Site ID:RD0524U01RM41.5]	37.935576 ° -121.333202 °	37.935576 ° -121.333202 °	29 Y
DWR ID:									
18	0.94	1.02	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.	37.935259 ° -121.332864 °	37.935049 ° -121.331334 °	77 Y
DWR ID: DWR_RD0524_01_s_2012_77									
19	1.00	1.01	Supplemental	DWR Erosion Survey	WS C Ma	Inspector Comments: 08/07/2012: The site has been visited by boat survey. Site has been repaired, but new erosion occurred at the levee slope and immediately upstream of the repaired site. 08/23/2011: The site is about 500 ft downstream of bridge. The levee toe seems to be protected, but the protection is being washed away. [2012 Site ID:RD0524U01RM41.59]	37.935326 ° -121.331537 °	37.935326 ° -121.331537 °	47 Y
DWR ID:									
20	1.00	1.00	Supplemental	DWR Erosion Survey	WS U Ma	Inspector Comments: 08/07/2012: The erosion was discovered during the boat survey. [2012 Site ID:RD0524U01RM41.58]	37.935410 ° -121.331560 °	37.935410 ° -121.331560 °	55 Y
DWR ID:									

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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River					Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
21	1.03	1.03	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E2 : Schedule repair of erosion site prior to the next inspection.	37.935018 ° -121.331248 °	37.935098 ° -121.331645 °	17 Y
DWR ID: DWR_RD0524_01_s_2012_17										
22	1.09	1.09	Earthen Levee	Slope Stability	LS	M Ma	S1 : Repair slope instability.	37.934645 ° -121.330310 °	37.934645 ° -121.330310 °	18 Y
DWR ID: DWR_RD0524_01_s_2012_18										
23	1.14	1.17	Earthen Levee	Trim / Thin Trees	WS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.934118 ° -121.329657 °	37.933775 ° -121.329305 °	19 Y
DWR ID: DWR_RD0524_01_s_2012_19										
24	1.16	1.24	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/07/2012: The site has been visited by boat survey. No significant changes observed 08/23/2011: No significant changes observed on site. 9/07/2010: No significant changes observed on site. Some emergent vegetation at the water line. There is an exposed pipe discharge partially hanging at the mid-slope, possibly still used for discharging irrigation/runoff water. There is minimal rip rap protection along the bank, and what's left of it is no longer adequately protecting the bank. 9/29/2009: Site consists of a 400-foot long eroding bank with minimal vegetation and protection; the existing rip rap has sloughed, rendering it useless; note that there is an exposed section of a pipe. 10/18/2006: There is extensive loss of rip rap on some sections; sewage disposal pond is on the landside of the levee; there is an exposed pipe outlet "hanging" from the upper slope. [2012 Site ID:RD0524U01RM41.79]	37.933347 ° -121.329110 °	37.933347 ° -121.329110 °	79 Y
DWR ID:										
25	1.17	1.25	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.933775 ° -121.329250 °	37.932784 ° -121.328765 °	915 Y
DWR ID: DWR_RD0524_01_s_2012_915										
26	1.26	1.26	Earthen Levee	Encroachments	LS	U En	RA : Ramp Inspector Comments: Unauthorized ramps on landside slope. Ramps were caused by vehicle traffic.	37.932533 ° -121.328650 °	37.932533 ° -121.328650 °	263 Y
DWR ID: DWR_RD0524_01_s_2012_263										
27	1.29	1.32	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/07/2012: The site was first reported in 2012 spring levee inspection report. [2012 Site ID:RD0524U01RM41.92]	37.931858 ° -121.328308 °	37.931858 ° -121.328308 °	90 Y
DWR ID:										
28	1.31	1.31	Earthen Levee	Encroachments	WS	M Ma	PI : Pipe Inspector Comments: Pipe is not in use and needs to be properly abandoned.	37.931948 ° -121.328387 °	37.931948 ° -121.328387 °	33 Y
DWR ID: DWR_RD0524_01_s_2012_33										
29	1.39	1.39	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/07/2012: The site was first reported in 2012 spring levee inspection report. The site is located about 750 ft downstream of SR 4 Bridge. [2012 Site ID:RD0524U01RM42.03]	37.930575 ° -121.328098 °	37.930575 ° -121.328098 °	99 Y
DWR ID:										
30	1.41	1.42	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	37.930575 ° -121.328098 °	37.930420 ° -121.328245 °	22 Y
DWR ID: DWR_RD0524_01_s_2012_22										

*** Location**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
31	1.51	1.51	Earthen Levee	Trim / Thin Trees	LS	M Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.	37.929118 ° -121.328368 °	37.929118 ° -121.328368 °	916 Y
DWR ID: DWR_RD0524_01_s_2012_916										
32	1.56	1.74	Earthen Levee	Vegetation	LS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.928352 ° -121.328307 °	37.926497 ° -121.326248 °	23 Y
DWR ID: DWR_RD0524_01_s_2012_23										
33	1.58	1.64	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/07/2012: : The site has been visited by boat survey. No significant change observed 08/23/2011: No significant changes observed on site. Trees concerned still in place. 09/07/2010: No significant changes observed on site. The concern here is the undermining of the levee toe where most of trees are. There are erosion pockets lined along the lower slope and at the base of the trees, exposing tree roots. There is minimal slope protection. 09/29/2009: The lower slope is lined with minor erosion pockets; some tree roots are exposed; there is visible undermining of the levee toe; site is immediately upstream of the Highway 4 Bridge; the bridge is possibly causing a scour to occur, eroding the bank. [2012 Site ID:RD0524U01RM42.2]	37.927770 ° -121.327870 °	37.927770 ° -121.327870 °	125 Y
DWR ID:										
34	1.62	1.63	Earthen Levee	Vegetation	LS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.927635 ° -121.327812 °	37.927540 ° -121.327648 °	24 Y
DWR ID: DWR_RD0524_01_s_2012_24										
35	1.62	1.63	Earthen Levee	Vegetation	WS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.927635 ° -121.327812 °	37.927540 ° -121.327648 °	25 Y
DWR ID: DWR_RD0524_01_s_2012_25										
36	1.63	1.66	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	37.927507 ° -121.327593 °	37.927295 ° -121.327298 °	26 Y
DWR ID: DWR_RD0524_01_s_2012_26										
37	1.64	1.64	Earthen Levee	Encroachments	WS	U En	PO : Pole Inspector Comments: Landowner constructed boat dock without permit.	37.927372 ° -121.327278 °	37.927372 ° -121.327278 °	39 Y
DWR ID: DWR_RD0524_01_s_2012_39										
38	1.66	1.70	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps. Inspector Comments: Several tree stumps on waterside shoulder.	37.927255 ° -121.327137 °	37.926855 ° -121.326672 °	8 Y
DWR ID: DWR_RD0524_01_s_2012_8										
39	1.69	1.69	Earthen Levee	Encroachments	WS	M Ma	ST : Stairway Inspector Comments: Stairs and retaining wall	37.927018 ° -121.326872 °	37.927018 ° -121.326872 °	45 Y
DWR ID: DWR_RD0524_01_s_2012_45										
40	1.71	1.73	Earthen Levee	Slope Stability	WS	M Ma	S1 : Repair slope instability.	37.926728 ° -121.326597 °	37.926730 ° -121.326508 °	27 Y
DWR ID: DWR_RD0524_01_s_2012_27										
41	1.75	1.75	Earthen Levee	Encroachments	LS	M Ma	GA : Garbage Inspector Comments: Landowner has burned prunings and some of the garbage.	37.926322 ° -121.326115 °	37.926322 ° -121.326115 °	28 Y
DWR ID: DWR_RD0524_01_s_2012_28										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
42	1.77	1.77	Earthen Levee	Trim / Thin Trees	LS	M Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.	37.925993 ° -121.325777 °	37.926152 ° -121.325927 °	46 Y
DWR ID: DWR_RD0524_01_s_2012_46										
43	1.80	1.80	Earthen Levee	Encroachments	LS	A/W En	PR : Prunings	37.925752 ° -121.325592 °	37.925752 ° -121.325592 °	100 Y
DWR ID: DWR_RD0524_01_s_2012_100										
44	1.82	1.82	Earthen Levee	Encroachments	LS	M En	GA : Garbage Inspector Comments: Landowner storing appliances and equipment at landside toe.	37.925365 ° -121.325223 °	37.925365 ° -121.325223 °	103 Y
DWR ID: DWR_RD0524_01_s_2012_103										
45	1.90	1.95	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	37.924364 ° -121.324473 °	37.923805 ° -121.324238 °	78 Y
DWR ID: DWR_RD0524_01_s_2012_78										
46	1.95	1.95	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: District has sprayed bamboo, but still blocking view.	37.923808 ° -121.324260 °	37.923808 ° -121.324260 °	104 Y
DWR ID: DWR_RD0524_01_s_2012_104										
47	2.01	2.01	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.923032 ° -121.323933 °	37.923032 ° -121.323933 °	105 Y
DWR ID: DWR_RD0524_01_s_2012_105										
48	2.01	2.01	Earthen Levee	Encroachments	LS	M En	ST : Stairway Inspector Comments: Landowner installed rubber tires for a stairway on landside slope,	37.923068 ° -121.323990 °	37.923068 ° -121.323990 °	4 Y
DWR ID: DWR_RD0524_01_f_2012_4										
49	2.02	2.02	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	37.922923 ° -121.323837 °	37.922923 ° -121.323837 °	106 Y
DWR ID: DWR_RD0524_01_s_2012_106										
50	2.15	2.22	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.921540 ° -121.322293 °	37.920959 ° -121.321365 °	6 Y
DWR ID: DWR_RD0524_01_f_2012_6										
51	2.17	2.18	Earthen Levee	Erosion / Bank Caving	WSA/W	M Ma	E1 : Note and monitor erosion site.	37.921383 ° -121.322043 °	37.921300 ° -121.321902 °	30 Y
DWR ID: DWR_RD0524_01_s_2012_30										
52	2.19	2.19	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 08/07/2012: The site was first reported in 2012 spring levee inspection report. [2012 Site ID:RD0524U01RM42.79]	37.920992 ° -121.321373 °	37.920992 ° -121.321373 °	126 Y
DWR ID:										
53	2.22	2.28	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	37.920992 ° -121.321373 °	37.920505 ° -121.320485 °	31 Y
DWR ID: DWR_RD0524_01_s_2012_31										
54	2.29	2.31	Earthen Levee	Vegetation	LS	U Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.920372 ° -121.320230 °	37.920273 ° -121.320022 °	32 Y
DWR ID: DWR_RD0524_01_s_2012_32										

*** Location**

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CR : Crown

**** Rating**

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C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

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Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River					Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
55	2.32	2.32	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/07/2012: The site was first reported in 2012 spring levee inspection report. The site is located at the inside corner of a river bend. [2012 Site ID:RD0524U01RM42.93]	37.919885 ° -121.319713 °	37.919885 ° -121.319713 °	127 Y
DWR ID: DWR_RD0524_01_s_2012_34										
56	2.34	2.35	Earthen Levee	Slope Stability	WS	M Ma	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Slope damage caused by walking traffic and using bank as a fishing platform.	37.919885 ° -121.319713 °	37.919703 ° -121.319702 °	34 Y
DWR ID: DWR_RD0524_01_s_2012_34										
57	2.35	2.35	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.919742 ° -121.319623 °	37.919742 ° -121.319623 °	107 Y
DWR ID: DWR_RD0524_01_s_2012_107										
58	2.44	2.48	Earthen Levee	Vegetation	LS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.918498 ° -121.321078 °	37.918515 ° -121.321110 °	35 Y
DWR ID: DWR_RD0524_01_s_2012_35										
59	2.46	2.50	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	37.918628 ° -121.320817 °	37.918438 ° -121.321452 °	36 Y
DWR ID: DWR_RD0524_01_s_2012_36										
60	2.48	2.48	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.918480 ° -121.321114 °	37.918480 ° -121.321114 °	80 Y
DWR ID: DWR_RD0524_01_s_2012_80										
61	2.52	2.52	Earthen Levee	Vegetation	LS	U Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.918345 ° -121.321765 °	37.918302 ° -121.321923 °	37 Y
DWR ID: DWR_RD0524_01_s_2012_37										
62	2.53	2.53	Earthen Levee	Vegetation	WS	U Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.918287 ° -121.321980 °	37.918287 ° -121.321980 °	38 Y
DWR ID: DWR_RD0524_01_s_2012_38										
63	2.55	2.59	Earthen Levee	Slope Stability	LS	M Ma	S1 : Repair slope instability.	37.918060 ° -121.322384 °	37.917667 ° -121.322713 °	82 Y
DWR ID: DWR_RD0524_01_s_2012_82										
64	2.56	2.56	Earthen Levee	Vegetation	LS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.918047 ° -121.322415 °	37.918047 ° -121.322415 °	40 Y
DWR ID: DWR_RD0524_01_s_2012_40										
65	2.59	2.59	Earthen Levee	Vegetation	LS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.917673 ° -121.322718 °	37.917673 ° -121.322718 °	41 Y
DWR ID: DWR_RD0524_01_s_2012_41										
66	2.59	2.59	Earthen Levee	Encroachments	WS	U En	BU : Building	37.917673 ° -121.322718 °	37.917673 ° -121.322718 °	42 Y
DWR ID: DWR_RD0524_01_s_2012_42										
67	2.59	2.59	Earthen Levee	Encroachments	WS	M En	RA : Ramp	37.917431 ° -121.322780 °	37.917431 ° -121.322780 °	7 Y
DWR ID: DWR_RD0524_01_f_2012_7										
68	2.60	2.60	Earthen Levee	Encroachments	LS	M En	PO : Pole Inspector Comments: Old fence poles on landside shoulder and slope should be removed.	37.917538 ° -121.322757 °	37.917538 ° -121.322757 °	12 Y
DWR ID: DWR_RD0524_01_f_2012_12										

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River						Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
69	2.60	2.60	Earthen Levee	Animal Control	LS	Ma	A2 : Repair the levee slope damaged by livestock and prevent large animal access.	37.917475 ° -121.322808 °	37.917475 ° -121.322808 °	917
DWR ID: DWR_RD0524_01_s_2012_917										
70	2.61	2.61	Earthen Levee	Vegetation	LS	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.917228 ° -121.322730 °	37.917228 ° -121.322730 °	9
DWR ID: DWR_RD0524_01_s_2012_9										
71	2.65	2.65	Supplemental	DWR Erosion Survey	WS	Ma	Inspector Comments: 08/07/2012: The site was first reported in 2012 spring levee inspection report. [2012 Site ID:RD0524U01RM43.23]	37.916650 ° -121.321987 °	37.916650 ° -121.321987 °	128
DWR ID:										
72	2.66	2.66	Earthen Levee	Vegetation	LS	Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.916780 ° -121.322095 °	37.916780 ° -121.322095 °	43
DWR ID: DWR_RD0524_01_s_2012_43										
73	2.67	2.69	Earthen Levee	Trim / Thin Trees	LS	Ma	T1 : Trim trees to at least five feet above ground level.	37.916718 ° -121.322020 °	37.916502 ° -121.321980 °	918
DWR ID: DWR_RD0524_01_s_2012_918										
74	2.67	2.67	Earthen Levee	Encroachments	WS	En	RA : Ramp	37.916698 ° -121.322007 °	37.916698 ° -121.322007 °	920
DWR ID: DWR_RD0524_01_s_2012_920										
75	2.67	2.67	Earthen Levee	Erosion / Bank Caving	WS	Ma	E2 : Schedule repair of erosion site prior to the next inspection.	37.916650 ° -121.321987 °	37.916650 ° -121.321987 °	919
DWR ID: DWR_RD0524_01_s_2012_919										
76	2.69	2.80	Earthen Levee	Trim / Thin Trees	LS	Ma	T4 : Trim trees over roadway to at least 12 feet above ground level. Inspector Comments: Also trim over hanging trees at least 12 feet above ground level.	37.916418 ° -121.321963 °	37.915142 ° -121.323018 °	44
DWR ID: DWR_RD0524_01_s_2012_44										
77	2.73	2.73	Earthen Levee	Trim / Thin Trees	LS	Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	37.915968 ° -121.322275 °	37.915968 ° -121.322275 °	264
DWR ID: DWR_RD0524_01_s_2012_264										
78	2.73	2.73	Earthen Levee	Encroachments	LS	A/W Ma	TR : Tree or limb	37.915747 ° -121.322470 °	37.915747 ° -121.322470 °	60
DWR ID: DWR_RD0524_01_s_2012_60										
79	2.77	2.77	Earthen Levee	Encroachments	LS	Ma	TR : Tree or limb Inspector Comments: Broken tree branch.	37.915503 ° -121.322745 °	37.915503 ° -121.322745 °	70
DWR ID: DWR_RD0524_01_s_2012_70										
80	2.81	2.81	Earthen Levee	Encroachments	WS	En	PR : Prunings	37.915125 ° -121.323227 °	37.915125 ° -121.323227 °	921
DWR ID: DWR_RD0524_01_s_2012_921										
81	2.82	2.82	Earthen Levee	Vegetation	LS	Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.915022 ° -121.323443 °	37.915022 ° -121.323443 °	48
DWR ID: DWR_RD0524_01_s_2012_48										
82	2.83	2.83	Earthen Levee	Trim / Thin Trees	LS	Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	37.915063 ° -121.323585 °	37.915063 ° -121.323585 °	91
DWR ID: DWR_RD0524_01_s_2012_91										

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
83	2.88	2.88	Earthen Levee	Vegetation	LS	U Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.914427 ° -121.324198 °	37.914427 ° -121.324198 °	49 Y
DWR ID: DWR_RD0524_01_s_2012_49										
84	2.93	2.95	Earthen Levee	Encroachments	LS	U Ma	PR : Prunings	37.913767 ° -121.324427 °	37.913503 ° -121.324488 °	50 Y
DWR ID: DWR_RD0524_01_s_2012_50										
85	2.96	2.96	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.913415 ° -121.324503 °	37.913415 ° -121.324503 °	51 Y
DWR ID: DWR_RD0524_01_s_2012_51										
86	2.96	2.96	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 08/07/2012: The site was first reported in 2012 spring levee inspection report. [2012 Site ID:RD0524U01RM43.52]	37.913010 ° -121.324497 °	37.913010 ° -121.324497 °	129 Y
DWR ID:										
87	2.98	2.98	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site. Inspector Comments: Erosion cause by rain runoff.	37.913010 ° -121.324497 °	37.913010 ° -121.324497 °	922 Y
DWR ID: DWR_RD0524_01_s_2012_922										
88	3.04	3.04	Earthen Levee	Animal Control	LS	M Ma	A2 : Repair the levee slope damaged by livestock and prevent large animal access.	37.912163 ° -121.324702 °	37.912163 ° -121.324702 °	924 Y
DWR ID: DWR_RD0524_01_s_2012_924										
89	3.10	3.12	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.911382 ° -121.324928 °	37.911088 ° -121.325113 °	925 Y
DWR ID: DWR_RD0524_01_s_2012_925										
90	3.23	3.31	Supplemental	DWR Erosion Survey	WS	C Ma	Inspector Comments: 08/07/2012: The site has been repaired. Protecting riprap revetment has been placed at the levee shoulder and slope, but minor erosions are visible at the levee toe. 08/23/2011: Sloughing rip rap is visible on the site [2012 Site ID:RD0524U01RM43.83]	37.908544 ° -121.324894 °	37.908544 ° -121.324894 °	130 Y
DWR ID:										
91	3.33	3.35	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.908158 ° -121.325418 °	37.907872 ° -121.325443 °	926 Y
DWR ID: DWR_RD0524_01_s_2012_926										
92	3.37	3.40	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.907645 ° -121.325442 °	37.907157 ° -121.325408 °	52 Y
DWR ID: DWR_RD0524_01_s_2012_52										
93	3.38	3.39	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping	37.907407 ° -121.325435 °	37.907177 ° -121.325392 °	92 Y
DWR ID: DWR_RD0524_01_s_2012_92										
94	3.39	3.45	Earthen Levee	Animal Control	WS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.907283 ° -121.325432 °	37.906503 ° -121.325002 °	53 Y
DWR ID: DWR_RD0524_01_s_2012_53										
95	3.43	3.49	Earthen Levee	Trim / Thin Trees	LS	U Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.	37.906747 ° -121.325248 °	37.906192 ° -121.324543 °	54 Y
DWR ID: DWR_RD0524_01_s_2012_54										
96	3.45	3.45	Earthen Levee	Encroachments	LS	M Ma	MA : Material Inspector Comments: Broken concrete pipes	37.906540 ° -121.325015 °	37.906540 ° -121.325015 °	56 Y
DWR ID: DWR_RD0524_01_s_2012_56										

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River					Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
97	3.47	3.47	Earthen Levee	Trim / Thin Trees	LS	U Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.	37.906265 ° -121.324643 °	37.906265 ° -121.324643 °	93 Y
DWR ID: DWR_RD0524_01_s_2012_93										
98	3.53	3.53	Earthen Levee	Encroachments	LS	M En	RA : Ramp Inspector Comments: Unauthorized ramp on landside slope.	37.905552 ° -121.323847 °	37.905552 ° -121.323847 °	265 Y
DWR ID: DWR_RD0524_01_s_2012_265										
99	3.54	3.64	Earthen Levee	Trim / Thin Trees	LS	M Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.	37.905638 ° -121.323892 °	37.904430 ° -121.324570 °	57 Y
DWR ID: DWR_RD0524_01_s_2012_57										
100	3.55	3.58	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/07/2012: The levee toe has been cut off along a 150ft long river stretch. The erosion is located just upstream of a river bend. [2012 Site ID:RD0524U01RM44.13]	37.904630 ° -121.323610 °	37.904630 ° -121.323610 °	131 Y
DWR ID:										
101	3.65	3.65	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping Inspector Comments: Landowner planted cactus on landside toe.	37.904375 ° -121.324615 °	37.904375 ° -121.324615 °	124 Y
DWR ID: DWR_RD0524_01_f_2012_124										
102	3.68	3.68	Earthen Levee	Slope Stability	WS	M Ma	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Landowner cut steps into waterside slope.	37.904113 ° -121.325080 °	37.904113 ° -121.325080 °	58 Y
DWR ID: DWR_RD0524_01_s_2012_58										
103	3.80	3.80	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.902645 ° -121.326340 °	37.902645 ° -121.326340 °	927 Y
DWR ID: DWR_RD0524_01_s_2012_927										
104	3.82	3.82	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.902417 ° -121.326482 °	37.902417 ° -121.326482 °	59 Y
DWR ID: DWR_RD0524_01_s_2012_59										
105	3.82	3.82	Earthen Levee	Encroachments	CR	M Ma	EQ : Equipment Inspector Comments: Landowner installed temporary piping system without permit.	37.902365 ° -121.326453 °	37.902365 ° -121.326453 °	266 Y
DWR ID: DWR_RD0524_01_s_2012_266										
106	3.84	3.85	Earthen Levee	Trim / Thin Trees	LS	A/W Ma	T1 : Trim trees to at least five feet above ground level.	37.902155 ° -121.326523 °	37.902002 ° -121.326550 °	928 Y
DWR ID: DWR_RD0524_01_s_2012_928										
107	3.89	4.01	Earthen Levee	Encroachments	LS	M Ma	EQ : Equipment	37.901375 ° -121.326507 °	37.899745 ° -121.326630 °	62 Y
DWR ID: DWR_RD0524_01_s_2012_62										
108	3.92	3.92	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove cactus	37.900952 ° -121.326443 °	37.900952 ° -121.326443 °	94 Y
DWR ID: DWR_RD0524_01_s_2012_94										
109	3.93	3.93	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.900854 ° -121.326438 °	37.900854 ° -121.326438 °	83 Y
DWR ID: DWR_RD0524_01_s_2012_83										

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
110	4.06	4.06	Earthen Levee	Encroachments	LS	U En	RA : Ramp Inspector Comments: Unauthorized ramp. Ramp does not meet Title 23 standard.	37.899027 ° -121.326982 °	37.899027 ° -121.326982 °	101 Y
DWR ID: DWR_RD0524_01_s_2012_101										
111	4.07	4.07	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.898925 ° -121.327015 °	37.898925 ° -121.327015 °	61 Y
DWR ID: DWR_RD0524_01_s_2012_61										
112	4.08	4.13	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.898832 ° -121.327092 °	37.898090 ° -121.327457 °	64 Y
DWR ID: DWR_RD0524_01_s_2012_64										
113	4.13	4.13	Earthen Levee	Slope Stability	LS	M Ma	S1 : Repair slope instability.	37.898035 ° -121.327447 °	37.898035 ° -121.327447 °	108 Y
DWR ID: DWR_RD0524_01_s_2012_108										
114	4.19	4.19	Earthen Levee	Encroachments	LS	M En	RA : Ramp Inspector Comments: Two unauthorized ramps on landward slope.	37.897103 ° -121.327895 °	37.897103 ° -121.327895 °	110 Y
DWR ID: DWR_RD0524_01_s_2012_110										
115	4.19	4.19	Interior Drainage & Piping Systems	Metal Pipes	WS	M Ma	Inspector Comments: Landowner has temporarily repaired pipe with tape. Pipe should be replaced to stop further damage to the levee.	37.897113 ° -121.327895 °	37.897113 ° -121.327895 °	109 Y
DWR ID: DWR_RD0524_01_s_2012_109										
116	4.40	4.56	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.894587 ° -121.329253 °	37.892493 ° -121.328267 °	65 Y
DWR ID: DWR_RD0524_01_s_2012_65										
117	4.42	4.42	Earthen Levee	Encroachments	LS	M En	TR : Tree or limb Inspector Comments: Dead tree at landside toe should be removed from levee toe.	37.894258 ° -121.329247 °	37.894258 ° -121.329247 °	111 Y
DWR ID: DWR_RD0524_01_s_2012_111										
118	4.44	4.58	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.893928 ° -121.329203 °	37.892230 ° -121.328187 °	112 Y
DWR ID: DWR_RD0524_01_s_2012_112										
119	4.53	4.54	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/07/2012: Erosion is located at the inside of a river bend. Site is covered with broken concrete blocks and other debris. [2012 Site ID:RD0524U01RM45.07]	37.892230 ° -121.327930 °	37.892230 ° -121.327930 °	132 Y
DWR ID:										
120	4.57	4.57	Earthen Levee	Encroachments	WS	M En	PR : Prunings Inspector Comments: Remove dead tree	37.892368 ° -121.328200 °	37.892368 ° -121.328200 °	102 Y
DWR ID: DWR_RD0524_01_s_2012_102										
121	4.64	4.64	Earthen Levee	Encroachments	LS	M Ma	GA : Garbage	37.891365 ° -121.328633 °	37.891365 ° -121.328633 °	66 Y
DWR ID: DWR_RD0524_01_s_2012_66										
122	4.65	4.65	Earthen Levee	Trim / Thin Trees	LS	U Ma	T1 : Trim trees to at least five feet above ground level.	37.891285 ° -121.328728 °	37.891285 ° -121.328728 °	63 Y
DWR ID: DWR_RD0524_01_s_2012_63										

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Unit No. 01 San Joaquin River					Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
123	4.67	4.67	Earthen Levee	Trim / Thin Trees	LS	U Ma	T1 : Trim trees to at least five feet above ground level.	37.890973 ° -121.328970 °	37.890973 ° -121.328970 °	113 Y
DWR ID: DWR_RD0524_01_s_2012_113										
124	4.71	4.71	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: Cracking erosion along the levee bank. Erosion appears to be caused by river flows. [2012 Site ID:RD0524U01RM45.27]	37.889809 ° -121.329342 °	37.889809 ° -121.329342 °	133 Y
DWR ID:										
125	4.74	4.74	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level. Inspector Comments: Fig tree at landside toe.	37.890108 ° -121.329523 °	37.890108 ° -121.329523 °	67
DWR ID: DWR_RD0524_01_s_2012_67										
126	4.95	4.95	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level. Inspector Comments: Downed tree lying on landside toe.	37.887578 ° -121.331237 °	37.887578 ° -121.331237 °	95
DWR ID: DWR_RD0524_01_s_2012_95										
127	4.98	4.98	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.887277 ° -121.331609 °	37.887277 ° -121.331609 °	84
DWR ID: DWR_RD0524_01_s_2012_84										
128	5.01	5.03	Earthen Levee	Vegetation	LS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.886907 ° -121.331862 °	37.886673 ° -121.331965 °	114
DWR ID: DWR_RD0524_01_s_2012_114										
129	5.11	5.11	Earthen Levee	Trim / Thin Trees	LS	U Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	37.885400 ° -121.332153 °	37.885400 ° -121.332153 °	68 Y
DWR ID: DWR_RD0524_01_s_2012_68										
130	5.17	5.17	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.884592 ° -121.332168 °	37.884592 ° -121.332168 °	71
DWR ID: DWR_RD0524_01_s_2012_71										
131	5.20	5.20	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.884075 ° -121.332118 °	37.884075 ° -121.332118 °	72
DWR ID: DWR_RD0524_01_s_2012_72										
132	5.24	5.24	Earthen Levee	Slope Stability	LS	M Ma	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.	37.883587 ° -121.332100 °	37.883587 ° -121.332100 °	115
DWR ID: DWR_RD0524_01_s_2012_115										
133	5.26	5.26	Earthen Levee	Encroachments	WS	M En	TR : Tree or limb Inspector Comments: Dead tree limb on waterside slope.	37.883170 ° -121.332227 °	37.883170 ° -121.332227 °	116
DWR ID: DWR_RD0524_01_s_2012_116										
134	5.32	5.38	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.882377 ° -121.332598 °	37.881498 ° -121.332800 °	85
DWR ID: DWR_RD0524_01_s_2012_85										
135	5.41	5.41	Earthen Levee	Erosion / Bank Caving	LS	U Ma	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: Erosion/Craving could be caused by foot traffic and someone digging in the levee.	37.881263 ° -121.332808 °	37.881263 ° -121.332808 °	117 Y
DWR ID: DWR_RD0524_01_s_2012_117										
136	5.43	5.46	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.880945 ° -121.332837 °	37.880522 ° -121.332918 °	932
DWR ID: DWR_RD0524_01_s_2012_932										

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River					Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
137	5.46	5.46	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.880575 ° -121.332890 °	37.880575 ° -121.332890 °	931 Y
DWR ID: DWR_RD0524_01_s_2012_931										
138	5.47	5.47	Earthen Levee	Slope Stability	LS	U Ma	S1 : Repair slope instability. Inspector Comments: Slope damage caused by human activity.	37.880323 ° -121.332968 °	37.880323 ° -121.332968 °	118 Y
DWR ID: DWR_RD0524_01_s_2012_118										
139	5.48	5.48	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.880085 ° -121.333045 °	37.880085 ° -121.333045 °	73 Y
DWR ID: DWR_RD0524_01_s_2012_73										
140	5.57	5.57	Earthen Levee	Trim / Thin Trees	WS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.878918 ° -121.333148 °	37.878918 ° -121.333148 °	96 Y
DWR ID: DWR_RD0524_01_s_2012_96										
141	5.65	5.66	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 08/07/2012: : The site has been visited by boat survey. No significant change observed 08/23/2011: No significant changes observed on site. 09/07/2010: No significant changes observed on site. Erosion site is located beneath Howard Road Bridge. Majority of the existing rip rap has slipped, dragging away levee materials and exposing the underlying soft soil. 08/06/2010: Recommend for annual assessment and monitoring during flood events, per CLRO. 09/30/2009: No major changes observed since the last visit; upper portion of existing revetment has slipped, exposing the degrading bank; note that site # is the same as RM46.30, LM5.69 found in the CLRO CES Evaluation 2008 Report; site was previously rated "M". 11/04/2008: Previously repaired using rock revetment; upper portion of th revetment is sliding, causing deformation on the levee slope; site is upstream of Howards Road Bridge. [2012 Site ID:RD0524U01RM46.12]	37.877880 ° -121.332550 °	37.877880 ° -121.332550 °	134 Y
DWR ID:										
142	5.84	5.84	Earthen Levee	Encroachments	LS	M Ma	PR : Prunings Inspector Comments: Prunings at landside toe should be burned or removed.	37.875328 ° -121.333050 °	37.875328 ° -121.333050 °	267 Y
DWR ID: DWR_RD0524_01_s_2012_267										
143	5.86	5.86	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/07/2012: The erosion is near a water-intake structure. Pipe leakage likely caused the erosion. [2012 Site ID:RD0524U01RM46.39]	37.874370 ° -121.332850 °	37.874370 ° -121.332850 °	135 Y
DWR ID:										
144	5.86	5.86	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.877298 ° -121.332343 °	37.875073 ° -121.333168 °	69 Y
DWR ID: DWR_RD0524_01_s_2012_69										
145	5.92	5.94	Earthen Levee	Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.874240 ° -121.333187 °	37.874002 ° -121.333027 °	75 Y
DWR ID: DWR_RD0524_01_s_2012_75										
146	5.92	5.92	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	37.874240 ° -121.333185 °	37.874165 ° -121.333155 °	74 Y
DWR ID: DWR_RD0524_01_s_2012_74										

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector		
Unit No. 01 San Joaquin River				Left	6.26	10/09/2012 10/11/2012	Richard Willoughby		

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
147	5.93	5.93	Earthen Levee	Slope Stability	LS U Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Landowner is using damaged area as a ramp.	37.873893 ° -121.332978 °	37.873893 ° -121.332978 °	119 Y
DWR ID: DWR_RD0524_01_s_2012_119									
148	5.97	5.97	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.	37.873678 ° -121.332550 °	37.873678 ° -121.332550 °	86
DWR ID: DWR_RD0524_01_s_2012_86									
149	5.99	6.00	Earthen Levee	Encroachments	LS M En	FE : Fence	37.873545 ° -121.332308 °	37.873445 ° -121.332127 °	87
DWR ID: DWR_RD0524_01_s_2012_87									
150	5.99	6.00	Earthen Levee	Vegetation	LS U En	V6 : Landscaping Inspector Comments: Cactus	37.873543 ° -121.332308 °	37.873445 ° -121.332127 °	88 Y
DWR ID: DWR_RD0524_01_s_2012_88									
151	6.01	6.01	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.	37.873347 ° -121.332028 °	37.873347 ° -121.332028 °	120
DWR ID: DWR_RD0524_01_s_2012_120									
152	6.01	6.05	Earthen Levee	Encroachments	LS U En	BU : Building Inspector Comments: Garbage also located next to abandoned trailer.	37.873377 ° -121.331977 °	37.873102 ° -121.331382 °	89 Y
DWR ID: DWR_RD0524_01_s_2012_89									
153	6.02	6.02	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.	37.873300 ° -121.331928 °	37.873300 ° -121.331928 °	81
DWR ID: DWR_RD0524_01_s_2012_81									
154	6.05	6.05	Earthen Levee	Slope Stability	LS M Ma	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.	37.873047 ° -121.331408 °	37.873047 ° -121.331408 °	933
DWR ID: DWR_RD0524_01_s_2012_933									
155	6.21	6.21	Earthen Levee	Encroachments	WS M Ma	PI : Pipe Inspector Comments: Open abandoned 10" pipe on waterside slope below flood elevation. Pipe should be removed or properly abandoned.	37.871137 ° -121.330138 °	37.871137 ° -121.330138 °	268 Y
DWR ID: DWR_RD0524_01_s_2012_268									
156	6.23	6.23	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.	37.870842 ° -121.330000 °	37.870842 ° -121.330000 °	98
DWR ID: DWR_RD0524_01_s_2012_98									
157	6.23	6.23	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.870840 ° -121.329993 °	37.870840 ° -121.329993 °	97
DWR ID: DWR_RD0524_01_s_2012_97									

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.22
End Levee Mile	0.22
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Looking east at 3" depression on levee crown near waterward shoulder.(Spring 2011)	
richard_f_20121008_061.jpg	



Levee Mile Report Line	4
Start Levee Mile	0.22
End Levee Mile	0.22
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Looking west at 3" depression on levee crown.(Spring 2012)	
richard_f_20121008_062.jpg	



Levee Mile Report Line	4
Start Levee Mile	0.22
End Levee Mile	0.22
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Looking east at 3" depression on levee crown. (Spring 2012)	
richard_f_20121008_063.jpg	

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	5
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

richard_f_20121008_075.jpg



Levee Mile Report Line	6
Start Levee Mile	0.40
End Levee Mile	0.40
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of erosion site. Note the vegetation at the levee toe and lower slope

SJR2012_RD0524U01RM40.99_1.jpg



Levee Mile Report Line	7
Start Levee Mile	0.41
End Levee Mile	0.73
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking southwest at landside erosion caused by runoff.

richard_f_20121008_084.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	0.41
End Levee Mile	0.73
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking northwest at landside caving near levee shoulder.

richard_f_20121008_085.jpg



Levee Mile Report Line	9
Start Levee Mile	0.63
End Levee Mile	0.63
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking east at waterside erosion appears to be caused by runoff.

richard_f_20121008_066.jpg



Levee Mile Report Line	10
Start Levee Mile	0.63
End Levee Mile	0.64
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking north at bamboo on waterside slope.

richard_f_20121008_067.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	10
Start Levee Mile	0.63
End Levee Mile	0.64
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking north at bamboo on waterside slope. As of 4/2010 no change.

richard_f_20121008_068.jpg



Levee Mile Report Line	10
Start Levee Mile	0.63
End Levee Mile	0.64
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking southeast a bamboo on waterside slope. (Spring 2012)

richard_f_20121008_069.jpg



Levee Mile Report Line	10
Start Levee Mile	0.63
End Levee Mile	0.64
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking south at bamboo on waterside slope. (Fall Inspection 2012)

richard_f_20121015_877.JPG



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	11
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

richard_f_20121008_070.jpg



Levee Mile Report Line	11
Start Levee Mile	0.65
End Levee Mile	0.66
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Update of erosion site at LM 0.65 to 0.66

richard_f_20121008_071.jpg



Levee Mile Report Line	11
Start Levee Mile	0.65
End Levee Mile	0.66
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking south at erosion on waterside shoulder.

richard_f_20121008_072.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	12
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

richard_f_20121008_073.jpg



Levee Mile Report Line	12
Start Levee Mile	0.68
End Levee Mile	0.68
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking southeast at bamboo on waterside shoulder as of 4/2010.

richard_f_20121008_074.jpg



Levee Mile Report Line	12
Start Levee Mile	0.68
End Levee Mile	0.68
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking south at bamboo on waterside slope. (Fall 2012)

richard_f_20121015_878.JPG



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	13
Start Levee Mile	0.77
End Levee Mile	0.78
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of the erosion site. Note the railroad bridge.

SJR2012_RD0524U01RM41.39_1.jpg



Levee Mile Report Line	13
Start Levee Mile	0.77
End Levee Mile	0.78
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the erosion site. Vegetation visible

SJR2012_RD0524U01RM41.39_2.jpg



Levee Mile Report Line	14
Start Levee Mile	0.78
End Levee Mile	0.78
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking west at dense vegetation on landside toe.

richard_f_20121008_175.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	15
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking southwest at low hanging tree branches at landside toe.

richard_f_20121008_137.jpg



Levee Mile Report Line	17
Start Levee Mile	0.91
End Levee Mile	0.91
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the erosion. Note the riprap protection near the site

SJR2012_RD0524U01RM41.5_1.jpg



Levee Mile Report Line	17
Start Levee Mile	0.91
End Levee Mile	0.91
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

A close view of the erosion

SJR2012_RD0524U01RM41.5_2.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	18
Start Levee Mile	0.94
End Levee Mile	1.02
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking south at low hanging tree branches at landside toe.

richard_f_20121008_138.jpg



Levee Mile Report Line	20
Start Levee Mile	1.00
End Levee Mile	1.00
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of erosion

SJR2012_RD0524U01RM41.58_3.jpg



Levee Mile Report Line	21
Start Levee Mile	1.03
End Levee Mile	1.03
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking upstream (south) at erosion site.

richard_f_20121008_076.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	21
Start Levee Mile	1.03
End Levee Mile	1.03
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking north at erosion site next to repaired site.(Spring 2012)

richard_f_20121008_077.jpg



Levee Mile Report Line	22
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

richard_f_20121008_078.jpg



Levee Mile Report Line	22
Start Levee Mile	1.09
End Levee Mile	1.09
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Updated picture of erosion site on landside shoulder.

richard_f_20121008_079.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	22
Start Levee Mile	1.09
End Levee Mile	1.09
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Update of above slope stability.

richard_f_20121008_080.jpg



Levee Mile Report Line	22
Start Levee Mile	1.09
End Levee Mile	1.09
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking at updated slope stability as 4/2010

richard_f_20121008_081.jpg



Levee Mile Report Line	22
Start Levee Mile	1.09
End Levee Mile	1.09
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking south at caving on landside shoulder.
(Spring 2012)

richard_f_20121008_082.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	23
Start Levee Mile	1.14
End Levee Mile	1.17
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking northwest at low hanging tree branches at waterside toe.

richard_f_20121008_083.jpg



Levee Mile Report Line	24
Start Levee Mile	1.16
End Levee Mile	1.24
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Direct view of the site.

SJR2012_RD0524U01RM41.79_1.jpg



Levee Mile Report Line	24
Start Levee Mile	1.16
End Levee Mile	1.24
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Direct view of the site.

SJR2012_RD0524U01RM41.79_2.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	25
Start Levee Mile	1.17
End Levee Mile	1.25
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southwest at dense veg. on landside toe.

richard_f_20121008_182.jpg



Levee Mile Report Line	26
Start Levee Mile	1.26
End Levee Mile	1.26
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking south at unauthorized ramp on landside slope.

richard_f_20121008_176.jpg



Levee Mile Report Line	26
Start Levee Mile	1.26
End Levee Mile	1.26
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northwest at unauthorized ramp on landside slope.

richard_f_20121008_177.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	27
Start Levee Mile	1.29
End Levee Mile	1.32
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

close view of the erosion

SJR2012_RD0524U01RM41.92_1.jpg



Levee Mile Report Line	27
Start Levee Mile	1.29
End Levee Mile	1.32
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the erosion

SJR2012_RD0524U01RM41.92_2.jpg



Levee Mile Report Line	27
Start Levee Mile	1.29
End Levee Mile	1.32
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the erosion

SJR2012_RD0524U01RM41.92_3.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	28
Start Levee Mile	1.31
End Levee Mile	1.31
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking north at broken pipe.

richard_f_20121008_101.jpg



Levee Mile Report Line	28
Start Levee Mile	1.31
End Levee Mile	1.31
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking west at pipe on landside slope.

richard_f_20121008_102.jpg



Levee Mile Report Line	29
Start Levee Mile	1.39
End Levee Mile	1.39
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of the erosion

SJR2012_RD0524U01RM42.03_1.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	31
Start Levee Mile	1.51
End Levee Mile	1.51
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Dense vegetation on landside toe.

richard_f_20121008_183.jpg



Levee Mile Report Line	31
Start Levee Mile	1.51
End Levee Mile	1.51
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking south at dense veg. on landside slope and toe.

richard_f_20121008_184.jpg



Levee Mile Report Line	31
Start Levee Mile	1.51
End Levee Mile	1.51
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking south at trees on landside slope. (Fall 2012)

richard_f_20121015_879.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	32
Start Levee Mile	1.56
End Levee Mile	1.74
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Overgrown landscaping on landward slope from LM 1.56 to 1.74	
richard_f_20121008_089.jpg	



Levee Mile Report Line	33
Start Levee Mile	1.58
End Levee Mile	1.64
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of the site where undermining has occurred.	
SJR2012_RD0524U01RM42.2_1.jpg	



Levee Mile Report Line	33
Start Levee Mile	1.58
End Levee Mile	1.64
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Large trees along the levee toe. There is minimal slope protection. The erosion near tree visible.	
SJR2012_RD0524U01RM42.2_2.jpg	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	34
Start Levee Mile	1.62
End Levee Mile	1.63
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking north at dense veg on landside and waterside slopes.

richard_f_20121008_090.jpg



Levee Mile Report Line	35
Start Levee Mile	1.62
End Levee Mile	1.63
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking southeast at dense veg. on waterside slope.

richard_f_20121008_091.jpg



Levee Mile Report Line	37
Start Levee Mile	1.64
End Levee Mile	1.64
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking east at non-permitted boat dock.

richard_f_20121008_109.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	37
Start Levee Mile	1.64
End Levee Mile	1.64
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking at garbage on waterside slope.

richard_f_20121008_110.jpg



Levee Mile Report Line	39
Start Levee Mile	1.69
End Levee Mile	1.69
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking northeast on non-permitted concrete stairs on waterside slope.

richard_f_20121008_114.jpg



Levee Mile Report Line	39
Start Levee Mile	1.69
End Levee Mile	1.69
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking west at concrete stairs on waterside slope.

richard_f_20121008_115.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	39
Start Levee Mile	1.69
End Levee Mile	1.69
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking southwest at retaning wall connected to concrete stairs.

richard_f_20121008_116.jpg



Levee Mile Report Line	41
Start Levee Mile	1.75
End Levee Mile	1.75
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southwest at garbage pile on landside toe. (Spring 2012)

richard_f_20121008_095.jpg



Levee Mile Report Line	41
Start Levee Mile	1.75
End Levee Mile	1.75
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southwest at burned pruning pile on landside slope.

richard_f_20121015_880.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	42
Start Levee Mile	1.77
End Levee Mile	1.77
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking southwest at dense vegetation and low hanging tree branches on landside slope and toe.

richard_f_20121008_117.jpg



Levee Mile Report Line	43
Start Levee Mile	1.80
End Levee Mile	1.80
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southwest at prunings on landside toe.

richard_f_20121008_157.jpg



Levee Mile Report Line	44
Start Levee Mile	1.82
End Levee Mile	1.82
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking west at garbage and equipment at landside toe.

richard_f_20121008_159.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	45
Start Levee Mile	1.90
End Levee Mile	1.95
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southwest at landscaping on landside slope. (Spring 2012)

richard_f_20121008_139.jpg



Levee Mile Report Line	46
Start Levee Mile	1.95
End Levee Mile	1.95
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking southeast at bamboo on waterside slope.

richard_f_20121008_160.jpg



Levee Mile Report Line	46
Start Levee Mile	1.95
End Levee Mile	1.95
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking northeast at sprayed bamboo on waterside slope. (Fall 2012)

richard_f_20121015_881.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	48
Start Levee Mile	2.01
End Levee Mile	2.01
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking west at rubber tires being used as stairs on landside slope.

richard_f_20121015_882.JPG



Levee Mile Report Line	52
Start Levee Mile	2.19
End Levee Mile	2.19
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Close view of the pocket erosion

SJR2012_RD0524U01RM42.79_1.jpg



Levee Mile Report Line	54
Start Levee Mile	2.29
End Levee Mile	2.31
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at dense veg on landside slope and toe.

richard_f_20121008_100.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	55
Start Levee Mile	2.32
End Levee Mile	2.32
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Close look of the site.

SJR2012_RD0524U01RM42.93_1.jpg



Levee Mile Report Line	56
Start Levee Mile	2.34
End Levee Mile	2.35
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking northeast at damage slope possible caused by human activity.

richard_f_20121015_883.JPG



Levee Mile Report Line	59
Start Levee Mile	2.46
End Levee Mile	2.50
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking east at erosion on waterside slope.

richard_f_20121015_884.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	60
Start Levee Mile	2.48
End Levee Mile	2.48
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking southwest at dense vegetation on landside toe.

richard_f_20121008_144.jpg



Levee Mile Report Line	60
Start Levee Mile	2.48
End Levee Mile	2.48
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking southwest at dense vegetation and trees on landside slope. (Fall 2012)

richard_f_20121015_885.JPG



Levee Mile Report Line	61
Start Levee Mile	2.52
End Levee Mile	2.52
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at elderberry on landside slope.

richard_f_20121008_103.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	61
Start Levee Mile	2.52
End Levee Mile	2.52
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southwest at trees along levee landside toe.

richard_f_20121008_104.jpg



Levee Mile Report Line	61
Start Levee Mile	2.52
End Levee Mile	2.52
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking north at elderberry and trees on landside slope.

richard_f_20121008_105.jpg



Levee Mile Report Line	61
Start Levee Mile	2.52
End Levee Mile	2.52
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southwest at dense vegetation on landside toe.

richard_f_20121008_106.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	62
Start Levee Mile	2.53
End Levee Mile	2.53
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking south at elderberry on waterside slope.

richard_f_20121008_107.jpg



Levee Mile Report Line	62
Start Levee Mile	2.53
End Levee Mile	2.53
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking north at elderberry on waterside slope.

richard_f_20121008_108.jpg



Levee Mile Report Line	66
Start Levee Mile	2.59
End Levee Mile	2.59
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking at animal pens on landside slope and toe.

richard_f_20121008_111.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	66
Start Levee Mile	2.59
End Levee Mile	2.59
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking west at animal pens on landside toe.
(Fall 2012)

richard_f_20121015_886.JPG



Levee Mile Report Line	67
Start Levee Mile	2.59
End Levee Mile	2.59
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking southeast at unauthorized ramp on
waterside slope.

richard_f_20121015_887.JPG



Levee Mile Report Line	68
Start Levee Mile	2.60
End Levee Mile	2.60
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northwest at fence poles on landside
shoulder.

richard_f_20121015_888.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	71
Start Levee Mile	2.65
End Levee Mile	2.65
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of erosion

SJR2012_RD0524U01RM43.23_1.jpg



Levee Mile Report Line	72
Start Levee Mile	2.66
End Levee Mile	2.66
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southwest at structures on landside.

richard_f_20121008_112.jpg



Levee Mile Report Line	74
Start Levee Mile	2.67
End Levee Mile	2.67
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking southeast at unauthorized ramp on waterside slope.

richard_f_20121008_185.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	76
Start Levee Mile	2.69
End Levee Mile	2.80
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking north at dense trees overhanging levee crown.

richard_f_20121008_113.jpg



Levee Mile Report Line	81
Start Levee Mile	2.82
End Levee Mile	2.82
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at elderberry on landside slope.(Spring 2011)

richard_f_20121008_121.jpg



Levee Mile Report Line	81
Start Levee Mile	2.82
End Levee Mile	2.82
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at dense elderberry on landside slope.(Spring 2012)

richard_f_20121008_122.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	82
Start Levee Mile	2.83
End Levee Mile	2.83
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking southwest at dense vegetation on landside slope.

richard_f_20121015_889.JPG



Levee Mile Report Line	83
Start Levee Mile	2.88
End Levee Mile	2.88
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking northwest at elderberry on landside slope.

richard_f_20121008_123.jpg



Levee Mile Report Line	84
Start Levee Mile	2.93
End Levee Mile	2.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southwest at prunings on landside slope.

richard_f_20121008_124.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	86
Start Levee Mile	2.96
End Levee Mile	2.96
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of erosion

SJR2012_RD0524U01RM43.52_1.jpg



Levee Mile Report Line	87
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking east at erosion on waterside toe.

richard_f_20121008_186.jpg



Levee Mile Report Line	93
Start Levee Mile	3.38
End Levee Mile	3.39
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southwest at dense landscaping on landside slope.

richard_f_20121008_151.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	95
Start Levee Mile	3.43
End Levee Mile	3.49
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking northwest at dense vegetation on landside slope.

richard_f_20121008_125.jpg



Levee Mile Report Line	96
Start Levee Mile	3.45
End Levee Mile	3.45
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southwest at concrete pipes on landside toe.

richard_f_20121008_129.jpg



Levee Mile Report Line	97
Start Levee Mile	3.47
End Levee Mile	3.47
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking northwest at low hanging tree branches on landside slope and toe.

richard_f_20121008_152.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	98
Start Levee Mile	3.53
End Levee Mile	3.53
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southeast at unauthorized ramp on landside slope and toe.

richard_f_20121015_890.JPG



Levee Mile Report Line	100
Start Levee Mile	3.55
End Levee Mile	3.58
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of erosion

SJR2012_RD0524U01RM44.13_1.jpg



Levee Mile Report Line	100
Start Levee Mile	3.55
End Levee Mile	3.58
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of erosion

SJR2012_RD0524U01RM44.13_2.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	101
Start Levee Mile	3.65
End Levee Mile	3.65
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking west at cactus on landside toe.

richard_f_20121015_891.JPG



Levee Mile Report Line	102
Start Levee Mile	3.68
End Levee Mile	3.68
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking southeast steps cut into waterside slope.

richard_f_20121008_130.jpg



Levee Mile Report Line	105
Start Levee Mile	3.82
End Levee Mile	3.82
Location	Crown
Category	Earthen Levee
Item	Encroachments

Looking south at unauthorized irrigation pipe across levee and water filtration system at landside toe.

richard_f_20121008_178.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	105
Start Levee Mile	3.82
End Levee Mile	3.82
Location	Crown
Category	Earthen Levee
Item	Encroachments

Looking west at water filtration system on landside toe.

richard_f_20121008_179.jpg



Levee Mile Report Line	105
Start Levee Mile	3.82
End Levee Mile	3.82
Location	Crown
Category	Earthen Levee
Item	Encroachments

Looking south unauthorized pvc irrigation pipe across the levee crown.

richard_f_20121008_180.jpg



Levee Mile Report Line	107
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

richard_f_20121008_131.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	108
Start Levee Mile	3.92
End Levee Mile	3.92
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking southeast at cactus on waterside slope.

richard_f_20121008_153.jpg



Levee Mile Report Line	110
Start Levee Mile	4.06
End Levee Mile	4.06
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking west at unauthorized ramp on landside slope.

richard_f_20121008_158.jpg



Levee Mile Report Line	113
Start Levee Mile	4.13
End Levee Mile	4.13
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking southwest at caving slope on landside of levee.

richard_f_20121008_161.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	114
Start Levee Mile	4.19
End Levee Mile	4.19
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southwest at unauthorized ramp on landside slope.

richard_f_20121008_166.jpg



Levee Mile Report Line	115
Start Levee Mile	4.19
End Levee Mile	4.19
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Metal Pipes

Looking east at damaged pipe on waterside slope.(Spring 2012)

richard_f_20121008_162.jpg



Levee Mile Report Line	115
Start Levee Mile	4.19
End Levee Mile	4.19
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Metal Pipes

Looking east at irrigation system damaging waterside toe.

richard_f_20121008_163.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	115
Start Levee Mile	4.19
End Levee Mile	4.19
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Metal Pipes

Looking east at irrigation system on waterside slope.

richard_f_20121008_164.jpg



Levee Mile Report Line	115
Start Levee Mile	4.19
End Levee Mile	4.19
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Metal Pipes

Looking northeast at overview of irrigation system on waterside slope.

richard_f_20121008_165.jpg



Levee Mile Report Line	117
Start Levee Mile	4.42
End Levee Mile	4.42
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking west at dead tree at landside toe.

richard_f_20121008_167.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	119
Start Levee Mile	4.53
End Levee Mile	4.54
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site. Note the loosely placed concrete blocks.

SJR2012_RD0524U01RM45.07_1.jpg



Levee Mile Report Line	120
Start Levee Mile	4.57
End Levee Mile	4.57
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking southeast at dead tree on waterside slope.

richard_f_20121015_892.JPG



Levee Mile Report Line	121
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

richard_f_20121008_133.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	122
Start Levee Mile	4.65
End Levee Mile	4.65
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking south at dense trees on landside slope.

richard_f_20121008_132.jpg



Levee Mile Report Line	123
Start Levee Mile	4.67
End Levee Mile	4.67
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking north at dense trees on landside slope.

richard_f_20121008_168.jpg



Levee Mile Report Line	124
Start Levee Mile	4.71
End Levee Mile	4.71
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the erosion site

SJR2012_RD0524U01RM45.27_1.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	129
Start Levee Mile	5.11
End Levee Mile	5.11
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking south at overhanging trees.

richard_f_20121008_134.jpg



Levee Mile Report Line	135
Start Levee Mile	5.41
End Levee Mile	5.41
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking southeast at slope damage and ramp on landside slope.

richard_f_20121008_169.jpg



Levee Mile Report Line	138
Start Levee Mile	5.47
End Levee Mile	5.47
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking west a slope damage on landside slope.

richard_f_20121008_170.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	138
Start Levee Mile	5.47
End Levee Mile	5.47
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking east at slope caving on landside slope.

richard_f_20121008_171.jpg



Levee Mile Report Line	138
Start Levee Mile	5.47
End Levee Mile	5.47
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking southeast at damaged slope.

richard_f_20121008_172.jpg



Levee Mile Report Line	141
Start Levee Mile	5.65
End Levee Mile	5.66
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Sloughing rip rap just below the Howard Bridge abutment.

SJR2012_RD0524U01RM46.12_1.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	143
Start Levee Mile	5.86
End Levee Mile	5.86
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site

SJR2012_RD0524U01RM46.39_1.jpg



Levee Mile Report Line	146
Start Levee Mile	5.92
End Levee Mile	5.92
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Erosion at waterward toe and around irrigation pipe at LM 5.92

richard_f_20121008_135.jpg



Levee Mile Report Line	146
Start Levee Mile	5.92
End Levee Mile	5.92
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking southeast at erosion around pipe.

richard_f_20121008_136.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	147
Start Levee Mile	5.93
End Levee Mile	5.93
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking southwest at damage slope and ramp on landside slope.

richard_f_20121008_173.jpg



Levee Mile Report Line	147
Start Levee Mile	5.93
End Levee Mile	5.93
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking west at unauthorized ramp and landside slope damage.

richard_f_20121008_174.jpg



Levee Mile Report Line	150
Start Levee Mile	5.99
End Levee Mile	6.00
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southeast at fence and cactus on landside slope and toe.

richard_f_20121008_145.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

Levee Mile Report Line	152
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.

richard_f_20121008_146.jpg



Levee Mile Report Line	152
Start Levee Mile	6.01
End Levee Mile	6.05
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking west at garbage on landside toe next to abandoned trailer.

richard_f_20121008_147.jpg



Levee Mile Report Line	155
Start Levee Mile	6.21
End Levee Mile	6.21
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking southeast at abandoned pipe on waterside slope.

richard_f_20121008_181.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	10/09/2012 10/11/2012	Richard Willoughby

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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