

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2010 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

<b>RD0150</b>	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.			
<b>Reclamation District No. 0150 Merrit Island</b>	<b>M *</b>	<b>18.07</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	0.09		0.09	0.50%		
Trim / Thin Trees	0.51		0.51	2.82%		
Encroachments	0.28		0.28	1.55%	1.28	0.30
Slope Stability	0.07		0.07	0.39%		
Erosion / Bank Caving	0.11		0.11	0.61%		
Crown Surface / Depressions / Rutting	0.04		0.04	0.22%		
Metal Pipes	0.01		0.01	0.06%		
USACE Erosion Survey	0.12	0.03	0.24	1.33%		
<i>LMA Totals:</i>	1.23	0.03	1.35	7.47% *	1.28	0.30
<b>Unit No. 01 Sutter Slough</b>	Overall Unit Rating	Total Unit Miles				
	<b>A</b>	<b>0.54</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Encroachments	0.01		0.01	1.85%		
<i>Unit Totals:</i>	0.01	0.00	0.01	1.85%	0.00	0.00
<b>Unit No. 02 Sacramento River</b>	Overall Unit Rating	Total Unit Miles				
	<b>M</b>	<b>7.95</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	0.05		0.05	0.63%		
Trim / Thin Trees	0.44		0.44	5.54%		
Encroachments	0.18		0.18	2.26%	0.56	0.29
Slope Stability	0.04		0.04	0.50%		
Erosion / Bank Caving	0.02		0.02	0.25%		
Metal Pipes	0.01		0.01	0.13%		
USACE Erosion Survey	0.11	0.03	0.23	2.89%		
<i>Unit Totals:</i>	0.85	0.03	0.97	12.20%	0.56	0.29
<b>Unit No. 03 Elk Slough</b>	Overall Unit Rating	Total Unit Miles				
	<b>A</b>	<b>9.58</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	0.04		0.04	0.42%		
Trim / Thin Trees	0.07		0.07	0.73%		
Encroachments	0.09		0.09	0.94%	0.72	0.01
Slope Stability	0.03		0.03	0.31%		
Erosion / Bank Caving	0.09		0.09	0.94%		
Crown Surface / Depressions / Rutting	0.04		0.04	0.42%		
USACE Erosion Survey	0.01		0.01	0.10%		
<i>Unit Totals:</i>	0.37	0.00	0.37	3.86%	0.72	0.01

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

**Reclamation District No. 0150 Merrit Island**

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

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\* **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

**FALL INSPECTIONS:** The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2010 Levee Inspection Results**

**Reclamation District No. 0150 Merrit Island**

Waterway		Bank	Unit Miles
Unit No. 01 Sutter Slough		Left	0.54

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	3/16/2010		10/7/2010	
DWR Inspector	David Pesavento		Bob Duffey	
Accompanied By				

Check one:

During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.

During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Room LL-30  
Sacramento, CA 95821-9000


**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.54	11/17/2010 11/17/2010	Bob Duffey

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.33	0.33	Earthen Levee	Encroachments	CR	M	Debris Inspector Comments: Bales of hay used as backing for target practice on the crown of the levee.	38.329926 ° -121.578919 °	38.329926 ° -121.578919 °	4 Y
2	0.49	0.49	Earthen Levee	Trim / Thin Trees	LS	C	Tree stumps.	38.328420 ° -121.576894 °	38.328420 ° -121.576894 °	3

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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.54	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.33
End Levee Mile	0.33
Location	Crown
Category	Earthen Levee
Item	Encroachments

View of a hay bale target on the crown of the levee looking west.

rduffey\_f\_20101123\_331.jpg



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

**Unit Cover Sheet**

**Fall 2010 Levee Inspection Results**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles
Unit No. 02 Sacramento River	Right	7.95

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>M</b>	
Date of Inspection	3/16/2010		10/7/2010	
DWR Inspector	David Pesavento		Bob Duffey	
Accompanied By				

Check one:

- During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

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Sacramento, CA 95821-9000


**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/17/2010 11/17/2010	Bob Duffey

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.04	0.04	Earthen Levee	Erosion / Bank Caving	LS	C	Note and monitor erosion site.	38.328551 ° -121.575845 °	38.328551 ° -121.575845 °	2
2	0.06	0.06	Earthen Levee	Erosion / Bank Caving	LS	C	Schedule repair of erosion site prior to the next inspection.	38.328907 ° -121.575574 °	38.328907 ° -121.575574 °	95
3	0.16	0.16	Earthen Levee	Encroachments	WS	PO	Buildings	38.330047 ° -121.574538 °	38.330047 ° -121.574538 °	49 Y
4	0.17	0.21	Earthen Levee	Encroachments	LS	PO	Landscaping	38.330173 ° -121.574490 °	38.330576 ° -121.574093 °	990
5	0.24	0.24	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.330956 ° -121.573660 °	38.330956 ° -121.573660 °	50 Y
6	0.25	0.25	Earthen Levee	Encroachments	LS	CO	Landscaping	38.331035 ° -121.573502 °	38.331035 ° -121.573502 °	4 Y
7	0.27	0.27	Earthen Levee	Encroachments	LS	M	Tree or limb	38.331410 ° -121.573331 °	38.331410 ° -121.573331 °	94 Y
8	0.46	0.46	Earthen Levee	Encroachments	LS	M	Prunings	38.333490 ° -121.571406 °	38.333490 ° -121.571406 °	989
9	0.47	0.47	Earthen Levee	Encroachments	LS	PO	Landscaping	38.333641 ° -121.571260 °	38.333641 ° -121.571260 °	3
10	0.59	0.59	Earthen Levee	Trim / Thin Trees	WS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.334776 ° -121.569760 °	38.334776 ° -121.569760 °	51 Y
11	0.90	0.90	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.338312 ° -121.566158 °	38.338312 ° -121.566158 °	5
12	0.97	0.97	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.338980 ° -121.565301 °	38.338980 ° -121.565301 °	987
13	0.98	1.00	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.339042 ° -121.565209 °	38.339307 ° -121.564860 °	6
14	1.11	1.11	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.340337 ° -121.563528 °	38.340337 ° -121.563528 °	7
15	1.16	1.16	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	38.340864 ° -121.562915 °	38.340864 ° -121.562915 °	8 Y
16	1.24	1.28	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2009: no berm, 1.5:1 slope, no stability issues, clays and silts, 5.89 ft/s [2009 SiteID:SAC_35-3_R]	38.342128 ° -121.561431 °	38.341617 ° -121.561686 °	37 Y
17	1.28	1.28	Earthen Levee	Encroachments	LS	PO	Landscaping	38.342229 ° -121.561694 °	38.342229 ° -121.561694 °	92
18	1.34	1.37	Earthen Levee	Encroachments	LS	PO	Landscaping	38.342969 ° -121.561196 °	38.343252 ° -121.560794 °	91

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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/17/2010 11/17/2010	Bob Duffey

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
19	1.42	1.45	Supplemental	USACE Erosion Survey	WS	U	Inspector Comments: 2009: no berm, 2:1 slope, holes and slumping, clays and silts, 6.52 ft/s [2009 SiteID:SAC_35-4_R]	38.343739 ° -121.559325 °	38.343472 ° -121.559750 °	39 Y
20	1.42	1.42	Earthen Levee	Encroachments	LS	M	Prunings	38.343757 ° -121.559938 °	38.343757 ° -121.559938 °	9
21	1.73	1.73	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.345574 ° -121.554909 °	38.345574 ° -121.554909 °	90
22	1.76	1.76	Earthen Levee	Encroachments	LS	PO	Landscaping	38.345675 ° -121.554407 °	38.345675 ° -121.554407 °	89
23	1.87	1.87	Earthen Levee	Erosion / Bank Caving	LS	M	Note and monitor erosion site.	38.346134 ° -121.552466 °	38.346134 ° -121.552466 °	10
24	2.21	2.21	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.347143 ° -121.546493 °	38.347143 ° -121.546493 °	986
25	2.23	2.27	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.347193 ° -121.546102 °	38.347259 ° -121.545535 °	11
26	2.29	2.29	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.347296 ° -121.545105 °	38.347296 ° -121.545105 °	985
27	2.31	2.33	Earthen Levee	Encroachments	LS	PO	Landscaping	38.347355 ° -121.544628 °	38.347361 ° -121.544280 °	88
28	2.35	2.35	Earthen Levee	Encroachments	LS	M	Debris	38.347169 ° -121.544008 °	38.347169 ° -121.544008 °	87
29	2.46	2.46	Earthen Levee	Encroachments	WS	M	Debris Inspector Comments: A platform and sitting/fishing area has been cut into the waterward slope. The encroachment should be removed and the slope repaired	38.347614 ° -121.541988 °	38.347614 ° -121.541988 °	960 Y
30	2.48	2.49	Earthen Levee	Encroachments	LS	PO	Landscaping	38.347720 ° -121.541737 °	38.347800 ° -121.541435 °	983
31	2.55	2.55	Earthen Levee	Encroachments	LS	M	Prunings	38.348087 ° -121.540476 °	38.348087 ° -121.540476 °	12
32	2.80	2.80	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	38.350041 ° -121.536853 °	38.350041 ° -121.536853 °	14 Y
33	2.82	2.82	Earthen Levee	Encroachments	LS	PO	Landscaping	38.350324 ° -121.536488 °	38.350324 ° -121.536488 °	16
34	2.84	2.84	Earthen Levee	Encroachments	LS	M	Tree or limb	38.350375 ° -121.536152 °	38.350375 ° -121.536152 °	15 Y
35	3.02	3.06	Earthen Levee	Encroachments	LS	CO	Landscaping	38.352372 ° -121.534127 °	38.352802 ° -121.533638 °	85 Y
36	3.28	3.28	Earthen Levee	Encroachments	LS	M	Prunings	38.355306 ° -121.531008 °	38.355306 ° -121.531008 °	980

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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/17/2010 11/17/2010	Bob Duffey

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
37	3.29	3.29	Earthen Levee	Erosion / Bank Caving	WS	M	Schedule repair of erosion site prior to the next inspection. Inspector Comments: Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.	38.355321 ° -121.530902 °	38.355321 ° -121.530902 °	961 Y
38	3.31	3.31	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.355632 ° -121.530740 °	38.355632 ° -121.530740 °	952
39	3.35	3.35	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.355979 ° -121.530288 °	38.355979 ° -121.530288 °	17
40	3.44	3.44	Earthen Levee	Encroachments	LS	M	Prunings	38.356986 ° -121.529131 °	38.356986 ° -121.529131 °	18
41	3.48	3.51	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.357320 ° -121.528647 °	38.357660 ° -121.528272 °	19
42	3.57	3.57	Earthen Levee	Encroachments	LS	M	Prunings	38.358324 ° -121.527430 °	38.358324 ° -121.527430 °	978 Y
43	3.60	3.73	Earthen Levee	Encroachments	LS	CO	Landscaping	38.358565 ° -121.527153 °	38.359729 ° -121.525345 °	82
44	3.76	3.76	Earthen Levee	Encroachments	WS	M	Debris Inspector Comments: Sitting area dug into the waterward slope.	38.359941 ° -121.524809 °	38.359941 ° -121.524809 °	962 Y
45	3.90	3.93	Earthen Levee	Encroachments	LS	PO	Landscaping	38.361419 ° -121.523225 °	38.361752 ° -121.522974 °	80 Y
46	4.15	4.16	Earthen Levee	Encroachments	LS	PO	Buildings Inspector Comments: 3' retaining wall at the landward shoulder.	38.364854 ° -121.522378 °	38.365104 ° -121.522365 °	20 Y
47	4.17	4.17	Earthen Levee	Encroachments	LS	PO	Landscaping	38.365162 ° -121.522365 °	38.365162 ° -121.522365 °	953
48	4.33	4.35	Earthen Levee	Encroachments	LS	CO	Landscaping	38.367442 ° -121.522427 °	38.367740 ° -121.522495 °	24 Y
49	4.37	4.41	Earthen Levee	Encroachments	LS	CO	Landscaping	38.368036 ° -121.522611 °	38.368540 ° -121.522729 °	79
50	4.55	4.55	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.370532 ° -121.523221 °	38.370532 ° -121.523221 °	21
51	4.57	4.64	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2009: 5 ft berm, 1.5:1 slope, slumping, clays and silts, 5.46 ft/s [2009 SiteID:SAC_38-5_R]	38.371911 ° -121.523175 °	38.370933 ° -121.522969 °	41 Y
52	4.68	4.68	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.372380 ° -121.523802 °	38.372380 ° -121.523802 °	977 Y

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/17/2010 11/17/2010	Bob Duffey

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
53	4.76	4.76	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.373485 ° -121.523963 °	38.373485 ° -121.523963 °	28 Y
54	4.78	4.79	Earthen Levee	Encroachments	LS	PO	Landscaping	38.373688 ° -121.524280 °	38.373970 ° -121.524403 °	76
55	4.94	4.94	Interior Drainage & Piping Systems	Metal Pipes	WS	M	Inspector Comments: Abandoned metal pipe end not fully welded shut. Need to ensure that no water can travel through pipe from river.	38.375805 ° -121.525263 °	38.375805 ° -121.525263 °	956
56	4.97	4.97	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.376279 ° -121.525471 °	38.376279 ° -121.525471 °	22
57	5.14	5.17	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.378715 ° -121.525458 °	38.379052 ° -121.525341 °	30
58	5.17	5.22	Earthen Levee	Encroachments	LS	PO	Landscaping	38.379054 ° -121.525341 °	38.379769 ° -121.525024 °	75 Y
59	5.33	5.33	Earthen Levee	Slope Stability	WS	M	Repair slope instability. Inspector Comments: Cavity located under rock rip rap on waterward slope at the shoulder over an irrigation pipe.	38.381126 ° -121.524208 °	38.381126 ° -121.524208 °	976 Y
60	5.33	5.33	Earthen Levee	Slope Stability	LS	M	Repair slope instability. Inspector Comments: Depression in the landward slope at the shoulder over an irrigation pipe.	38.381126 ° -121.524207 °	38.381126 ° -121.524207 °	975 Y
61	5.37	5.37	Earthen Levee	Encroachments	LS	M	Prunings	38.381617 ° -121.523832 °	38.381617 ° -121.523832 °	23
62	5.42	5.42	Earthen Levee	Encroachments	LS	M	Prunings	38.382167 ° -121.523178 °	38.382167 ° -121.523178 °	25
63	5.42	5.42	Earthen Levee	Encroachments	WS	C	Prunings	38.382163 ° -121.523081 °	38.382163 ° -121.523081 °	36
64	5.47	5.49	Earthen Levee	Encroachments	LS	PO	Landscaping	38.382675 ° -121.522367 °	38.382793 ° -121.522164 °	74
65	5.55	5.55	Earthen Levee	Encroachments	LS	M	Equipment	38.383323 ° -121.521344 °	38.383323 ° -121.521344 °	26
66	5.56	5.56	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.383402 ° -121.521150 °	38.383402 ° -121.521150 °	73
67	5.81	5.81	Earthen Levee	Encroachments	WS	M	Debris Inspector Comments: Tires on the waterward slope.	38.385654 ° -121.517535 °	38.385654 ° -121.517535 °	965 Y
68	6.18	6.27	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.390488 ° -121.515050 °	38.391600 ° -121.514818 °	1 Y
69	6.19	6.19	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Century plant on landside slope	38.390582 ° -121.515101 °	38.390582 ° -121.515101 °	71
70	6.28	6.28	Earthen Levee	Encroachments	LS	M	Debris Inspector Comments: Tires on landside slope	38.391838 ° -121.514887 °	38.391838 ° -121.514887 °	70 Y

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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/17/2010 11/17/2010	Bob Duffey

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
71	6.41	6.41	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Century plant on the landward slope.	38.393655 ° -121.514654 °	38.393655 ° -121.514654 °	27
72	6.42	6.42	Earthen Levee	Encroachments	LS	PO	Landscaping	38.393850 ° -121.514629 °	38.393850 ° -121.514629 °	29
73	6.43	6.43	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.394008 ° -121.514609 °	38.394008 ° -121.514609 °	67
74	6.46	6.46	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.394416 ° -121.514590 °	38.394416 ° -121.514590 °	31
75	6.49	6.49	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.394846 ° -121.514566 °	38.394846 ° -121.514566 °	38
76	6.50	6.57	Earthen Levee	Encroachments	LS	PO	Landscaping	38.394935 ° -121.514597 °	38.395931 ° -121.514604 °	65 Y
77	6.54	6.54	Earthen Levee	Encroachments	WS	PO	Landscaping	38.395449 ° -121.514508 °	38.395456 ° -121.514509 °	958
78	6.67	6.72	Earthen Levee	Encroachments	LS	CO	Landscaping	38.397411 ° -121.514681 °	38.398033 ° -121.514753 °	64 Y
79	6.76	6.79	Earthen Levee	Encroachments	LS	PO	Landscaping	38.398619 ° -121.514819 °	38.399044 ° -121.514855 °	63
80	6.80	6.80	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.399149 ° -121.514797 °	38.399149 ° -121.514797 °	35
81	6.83	6.83	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.399689 ° -121.514926 °	38.399689 ° -121.514926 °	61
82	6.93	7.05	Earthen Levee	Encroachments	LS	PO	Landscaping	38.400936 ° -121.515173 °	38.402613 ° -121.515863 °	60 Y
83	7.12	7.12	Earthen Levee	Encroachments	WS	M	Debris Inspector Comments: Debris left from an old pump that appears to not be operational.	38.403571 ° -121.516198 °	38.403571 ° -121.516198 °	34 Y
84	7.12	7.12	Earthen Levee	Encroachments	LS	PO	Landscaping	38.403631 ° -121.516299 °	38.403631 ° -121.516299 °	58 Y
85	7.20	7.20	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.404598 ° -121.516760 °	38.404598 ° -121.516760 °	45
86	7.25	7.25	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.405383 ° -121.516940 °	38.405383 ° -121.516940 °	46 Y
87	7.28	7.28	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by foot traffic and prevent access where possible.	38.405774 ° -121.517283 °	38.405774 ° -121.517283 °	968 Y
88	7.32	7.32	Earthen Levee	Encroachments	LS	M	Debris	38.406221 ° -121.517613 °	38.406221 ° -121.517613 °	57 Y
89	7.34	7.34	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.406454 ° -121.517732 °	38.406454 ° -121.517732 °	32

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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/17/2010 11/17/2010	Bob Duffey

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
90	7.35	7.35	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by foot traffic and prevent access where possible.	38.406607 ° -121.517739 °	38.406607 ° -121.517739 °	970
91	7.36	7.41	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.406817 ° -121.517687 °	38.407430 ° -121.518047 °	48 Y
92	7.92	7.92	Earthen Levee	Encroachments	LS	PO	Landscaping	38.413705 ° -121.522806 °	38.413705 ° -121.522806 °	56 Y

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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	3
Start Levee Mile	0.16
End Levee Mile	0.16
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Building located on waterside of levee at LM 0.16	
rduffey_f_20101007_109.JPG	



Levee Mile Report Line	5
Start Levee Mile	0.24
End Levee Mile	0.24
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Remove century plant within 20' of waterside shoulder on waterside of the levee at LM 0.24	
rduffey_f_20101007_110.JPG	



Levee Mile Report Line	6
Start Levee Mile	0.25
End Levee Mile	0.25
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping on landward slope at LM 0.25 blocking view of levee slope.	
rduffey_f_20101007_096.jpg	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	7
Start Levee Mile	0.27
End Levee Mile	0.27
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Remove tree branches from landside of levee at LM 0.27	
rduffey_f_20101007_122.JPG	



Levee Mile Report Line	10
Start Levee Mile	0.59
End Levee Mile	0.59
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
Trim trees above 5' from surface of the wateside of the levee within 20' from shoulder at LM 0.59	
rduffey_f_20101007_111.JPG	



Levee Mile Report Line	15
Start Levee Mile	1.16
End Levee Mile	1.16
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
View of a tree stump on the landward slope.	
rduffey_f_20101007_097.jpg	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	16
Start Levee Mile	1.24
End Levee Mile	1.28
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: no berm, 1.5:1 slope, no stability issues, clays and silts, 5.89 ft/s [2009 SiteID:SAC_35-3_R]	
rduffey_f_20101007_104.JPG	



Levee Mile Report Line	19
Start Levee Mile	1.42
End Levee Mile	1.45
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: no berm, 2:1 slope, holes and slumping, clays and silts, 6.52 ft/s [2009 SiteID:SAC_35-4_R]	
rduffey_f_20101007_105.JPG	



Levee Mile Report Line	29
Start Levee Mile	2.46
End Levee Mile	2.46
Location	Water Side
Category	Earthen Levee
Item	Encroachments
View of debris located on the waterward slope looking upstream.	
rduffey_f_20101007_126.jpg	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	32
Start Levee Mile	2.80
End Levee Mile	2.80
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
View of a tree stump on the landward slope.	
rduffey_f_20101007_098.jpg	



Levee Mile Report Line	34
Start Levee Mile	2.84
End Levee Mile	2.84
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Down tree limbs on landward slope at LM 2.84	
rduffey_f_20101007_099.jpg	



Levee Mile Report Line	35
Start Levee Mile	3.02
End Levee Mile	3.06
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping providing a screen for a residence on landside of levee from LM 3.02 to LM 3.06	
rduffey_f_20101007_121.JPG	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	37
Start Levee Mile	3.29
End Levee Mile	3.29
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
View of erosion on the waterward slope looking upstream. Depressions into the slope can be seen in several places.	
rduffey_f_20101007_127.jpg	



Levee Mile Report Line	37
Start Levee Mile	3.29
End Levee Mile	3.29
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Additional view of erosion on the waterward slope looking upstream. Note the damaged pump support, pump, and pipe just upstream of the site.	
rduffey_f_20101007_128.jpg	



Levee Mile Report Line	42
Start Levee Mile	3.57
End Levee Mile	3.57
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of dead branches and plant material on the landward slope blocking visibility and access.	
rduffey_f_20101007_135.jpg	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	44
Start Levee Mile	3.76
End Levee Mile	3.76
Location	Water Side
Category	Earthen Levee
Item	Encroachments
View of debris along the waterward slope.	
rduffey_f_20101007_129.jpg	



Levee Mile Report Line	45
Start Levee Mile	3.90
End Levee Mile	3.93
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping in front of a residence on landside of levee from LM 3.90 to LM 3.93. The levee in this location is greater than 100' wide.	
rduffey_f_20101007_120.JPG	



Levee Mile Report Line	46
Start Levee Mile	4.15
End Levee Mile	4.16
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of a retaining wall on the landward slope looking upstream.	
rduffey_f_20101007_100.jpg	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	48
Start Levee Mile	4.33
End Levee Mile	4.35
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping (Oleander) on landward slope from 4.33 to 4.35	
rduffey_f_20101007_101.jpg	



Levee Mile Report Line	51
Start Levee Mile	4.57
End Levee Mile	4.64
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 5 ft berm, 1.5:1 slope, slumping, clays and silts, 5.46 ft/s [2009 SiteID:SAC_38-5_R]	
rduffey_f_20101007_106.JPG	



Levee Mile Report Line	52
Start Levee Mile	4.68
End Levee Mile	4.68
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
View of a tree on the landward slope with lower branches blocking visibility and access. Most of these branches appear to already be dead and should be removed.	
rduffey_f_20101007_134.jpg	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	53
Start Levee Mile	4.76
End Levee Mile	4.76
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Century plant on waterward slope at LM 4.76	
rduffey_f_20101007_102.jpg	



Levee Mile Report Line	58
Start Levee Mile	5.17
End Levee Mile	5.22
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of landscaping along the landward shoulder and slope looking downstream.	
rduffey_f_20101007_119.jpg	



Levee Mile Report Line	59
Start Levee Mile	5.33
End Levee Mile	5.33
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
View of rock placed on a pipe penetration on the waterward slope. Cavities can be seen under the rocks.	
rduffey_f_20101007_133.jpg	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	60
Start Levee Mile	5.33
End Levee Mile	5.33
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
View of a minor depression along the landward slope of the levee over a pipe penetration looking downstream.	
rduffey_f_20101007_132.jpg	



Levee Mile Report Line	67
Start Levee Mile	5.81
End Levee Mile	5.81
Location	Water Side
Category	Earthen Levee
Item	Encroachments
View of several tires along the waterward slope.	
rduffey_f_20101007_130.jpg	



Levee Mile Report Line	68
Start Levee Mile	6.18
End Levee Mile	6.27
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
View of the trees that need to be trimmed up 5 feet.	
rduffey_f_20101123_338.jpg	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	70
Start Levee Mile	6.28
End Levee Mile	6.28
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Remove tires from landside of levee at LM 6.28	
rduffey_f_20101007_118.JPG	



Levee Mile Report Line	76
Start Levee Mile	6.50
End Levee Mile	6.57
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of landscaping along the waterward shoulder and slope looking downstream.	
rduffey_f_20101007_117.jpg	



Levee Mile Report Line	78
Start Levee Mile	6.67
End Levee Mile	6.72
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping providing a screen for a residence on landside of levee from LM 6.68 to LM 6.72	
rduffey_f_20101007_116.JPG	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	82
Start Levee Mile	6.93
End Levee Mile	7.05
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping providing a screen for a residence on landside of levee from LM 6.93 to LM 7.05	
rduffey_f_20101007_115.JPG	



Levee Mile Report Line	83
Start Levee Mile	7.12
End Levee Mile	7.12
Location	Water Side
Category	Earthen Levee
Item	Encroachments
View of debris from an old pump on the waterward slope.	
rduffey_f_20101007_103.jpg	



Levee Mile Report Line	84
Start Levee Mile	7.12
End Levee Mile	7.12
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping providing a screen for a residence on landside of levee at LM 7.12	
rduffey_f_20101007_114.JPG	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	86
Start Levee Mile	7.25
End Levee Mile	7.25
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Trim or remove brush to allow for visibility on landside of levee at LM 7.25	
rduffey_f_20101007_107.JPG	



Levee Mile Report Line	87
Start Levee Mile	7.28
End Levee Mile	7.28
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
View of minor erosion along the top portion of the waterward slope likely cause by foot traffic. The erosion has started to encroach into the shoulder of the road.	
rduffey_f_20101007_131.jpg	



Levee Mile Report Line	88
Start Levee Mile	7.32
End Levee Mile	7.32
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Remove pipes piled on landside of levee to at least 10' from levee toe at LM 7.32	
rduffey_f_20101007_113.JPG	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	91
Start Levee Mile	7.36
End Levee Mile	7.41
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Trim/thin trees and brush on landside of levee from LM 7.36 to LM 7.41	
rduffey_f_20101007_108.JPG	



Levee Mile Report Line	92
Start Levee Mile	7.92
End Levee Mile	7.92
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping on landside of levee at LM 7.92	
rduffey_f_20101007_112.JPG	



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

**Unit Cover Sheet**

**Fall 2010 Levee Inspection Results**

**Reclamation District No. 0150 Merrit Island**

Waterway		Bank	Unit Miles
Unit No. 03 Elk Slough		Left	9.58

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	3/16/2010		10/7/2010	
DWR Inspector	David Pesavento		Bob Duffey	
Accompanied By				

Check one:

- During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Room LL-30  
Sacramento, CA 95821-9000


**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/17/2010 11/17/2010	Bob Duffey

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.11	0.11	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	38.334233 ° -121.583414 °	38.334233 ° -121.583414 °	936 Y
2	0.20	0.21	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2009: no berm, 1:1 slope, tree hazards, clays and cobbles, 3 ft/s [2009 SiteID:ELK_0-2_L]	38.335617 ° -121.582836 °	38.335422 ° -121.582947 °	80 Y
3	0.36	0.36	Earthen Levee	Encroachments	WS	PO	Buildings Inspector Comments: Steps, water, electricity, and dock on waterward slope.	38.337442 ° -121.581628 °	38.337442 ° -121.581628 °	3 Y
4	0.38	0.38	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: ice plant on land slope	38.337632 ° -121.581532 °	38.337632 ° -121.581532 °	42
5	0.56	0.56	Earthen Levee	Trim / Thin Trees	WS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.340273 ° -121.580969 °	38.340273 ° -121.580969 °	937 Y
6	0.92	0.95	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.345293 ° -121.579769 °	38.345634 ° -121.579574 °	5 Y
7	1.23	1.23	Earthen Levee	Slope Stability	LS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	38.347607 ° -121.576130 °	38.347607 ° -121.576130 °	10 Y
8	2.02	2.05	Earthen Levee	Animal Control	LS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	38.354792 ° -121.569990 °	38.354689 ° -121.569417 °	44
9	2.57	2.57	Earthen Levee	Trim / Thin Trees	WS	C	Tree stumps.	38.356451 ° -121.561793 °	38.356451 ° -121.561793 °	8
10	2.60	2.60	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	38.356853 ° -121.561565 °	38.356853 ° -121.561565 °	11 Y
11	2.78	2.78	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage. Inspector Comments: Depression in the asphalt roadway.	38.359326 ° -121.561254 °	38.359326 ° -121.561254 °	13 Y
12	2.87	2.87	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.360621 ° -121.561762 °	38.360621 ° -121.561762 °	17 Y
13	3.01	3.01	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.362576 ° -121.562285 °	38.362576 ° -121.562285 °	18 Y
14	3.18	3.18	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.363800 ° -121.560128 °	38.363800 ° -121.560128 °	19 Y
15	3.21	3.21	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.363658 ° -121.559583 °	38.363658 ° -121.559583 °	20 Y
16	3.26	3.26	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.363387 ° -121.558685 °	38.363387 ° -121.558685 °	22 Y
17	3.41	3.41	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.363147 ° -121.556190 °	38.363147 ° -121.556190 °	27 Y
18	3.43	3.48	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	38.363223 ° -121.555962 °	38.363953 ° -121.555382 °	14 Y

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

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/17/2010 11/17/2010	Bob Duffey

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
19	3.50	3.54	Earthen Levee	Encroachments	LS	PO	Landscaping	38.364251 ° -121.555321 °	38.364772 ° -121.555343 °	47 Y
20	3.75	3.75	Earthen Levee	Slope Stability	LS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	38.367305 ° -121.554984 °	38.367305 ° -121.554984 °	927 Y
21	3.77	3.77	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by foot traffic and prevent access where possible.	38.367393 ° -121.554528 °	38.367393 ° -121.554528 °	15 Y
22	3.95	3.95	Earthen Levee	Encroachments	LS	M	Debris	38.368118 ° -121.551509 °	38.368118 ° -121.551509 °	48 Y
23	4.06	4.06	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage.	38.369686 ° -121.551744 °	38.369686 ° -121.551744 °	35 Y
24	4.35	4.35	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.373319 ° -121.550836 °	38.373319 ° -121.550836 °	37 Y
25	4.38	4.38	Earthen Levee	Animal Control	LS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	38.373649 ° -121.550542 °	38.373649 ° -121.550542 °	50 °
26	4.39	4.39	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage.	38.373741 ° -121.550481 °	38.373741 ° -121.550481 °	38 Y
27	4.46	4.46	Earthen Levee	Encroachments	LS	M	Prunings	38.374269 ° -121.549385 °	38.374269 ° -121.549385 °	51 Y
28	4.51	4.51	Earthen Levee	Encroachments	LS	M	Debris	38.374267 ° -121.548441 °	38.374267 ° -121.548441 °	52 °
29	4.56	4.56	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Some has been removed, but more remains toward the landward slope.	38.374328 ° -121.547578 °	38.374328 ° -121.547578 °	16 Y
30	4.59	4.59	Earthen Levee	Trim / Thin Trees	WS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.374419 ° -121.547096 °	38.374419 ° -121.547096 °	53 Y
31	4.98	4.98	Earthen Levee	Encroachments	LS	M	Tree or limb	38.377601 ° -121.541549 °	38.377601 ° -121.541549 °	54 °
32	4.99	4.99	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.377737 ° -121.541384 °	38.377737 ° -121.541384 °	940 Y
33	5.03	5.07	Earthen Levee	Encroachments	LS	PO	Landscaping	38.378203 ° -121.541048 °	38.378651 ° -121.540608 °	55 °
34	5.22	5.22	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage. Inspector Comments: There is a significant difference in the crown roadway elevation as it transitions from the paved roadway to the gravel access road.	38.380779 ° -121.540264 °	38.380779 ° -121.540264 °	941 Y
35	5.61	5.61	Earthen Levee	Encroachments	LS	C	Prunings Inspector Comments: Burn pile with unburned material on the landward slope and toe.	38.383329 ° -121.545809 °	38.383329 ° -121.545809 °	942 °

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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/17/2010 11/17/2010	Bob Duffey

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
36	5.80	5.80	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.383969 ° -121.542806 °	38.383969 ° -121.542806 °	41 Y
37	5.89	5.94	Earthen Levee	Encroachments	LS	PO	Fences	38.384363 ° -121.541161 °	38.384796 ° -121.540525 °	56 Y
38	5.93	5.93	Earthen Levee	Encroachments	LS	M	Tree or limb	38.384648 ° -121.540669 °	38.384648 ° -121.540669 °	57 Y
39	5.93	5.93	Earthen Levee	Encroachments	CR	CO	Buildings	38.384803 ° -121.540545 °	38.384803 ° -121.540545 °	58 Y
40	5.98	5.98	Earthen Levee	Encroachments	LS	C	Prunings	38.385277 ° -121.540070 °	38.385277 ° -121.540070 °	43
41	6.01	6.09	Earthen Levee	Encroachments	LS	PO	Landscaping	38.385752 ° -121.539905 °	38.386703 ° -121.540042 °	21
42	6.06	6.06	Earthen Levee	Encroachments	WS	M	Pipe Inspector Comments: Improperly abandoned pipe through the levee.	38.386422 ° -121.539861 °	38.386422 ° -121.539861 °	46 Y
43	6.14	6.14	Earthen Levee	Encroachments	LS	PO	Landscaping	38.387348 ° -121.540577 °	38.387348 ° -121.540577 °	23
44	6.24	6.31	Earthen Levee	Encroachments	LS	PO	Landscaping	38.388535 ° -121.541657 °	38.389391 ° -121.541901 °	24 Y
45	6.34	6.34	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.389658 ° -121.541518 °	38.389658 ° -121.541518 °	49 Y
46	6.35	6.36	Earthen Levee	Encroachments	LS	PO	Landscaping	38.389700 ° -121.541462 °	38.389808 ° -121.541285 °	25
47	6.37	6.40	Earthen Levee	Encroachments	LS	PO	Landscaping	38.389858 ° -121.541155 °	38.390115 ° -121.540657 °	26 Y
48	6.56	6.56	Earthen Levee	Encroachments	LS	PO	Landscaping	38.391616 ° -121.538378 °	38.391616 ° -121.538378 °	60 Y
49	6.63	6.63	Earthen Levee	Encroachments	LS	C	Prunings	38.392538 ° -121.538073 °	38.392538 ° -121.538073 °	59
50	6.87	6.95	Earthen Levee	Encroachments	LS	PO	Landscaping	38.395670 ° -121.537925 °	38.396027 ° -121.536575 °	30 Y
51	6.98	7.04	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Landscaping has been maintained better, but some obstructions still exist.	38.396187 ° -121.536180 °	38.396989 ° -121.535151 °	933
52	7.02	7.02	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	38.396655 ° -121.535485 °	38.396655 ° -121.535485 °	61 Y
53	7.06	7.09	Earthen Levee	Encroachments	LS	PO	Landscaping	38.397021 ° -121.535151 °	38.397540 ° -121.535183 °	31

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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/17/2010 11/17/2010	Bob Duffey

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
54	7.32	7.32	Earthen Levee	Encroachments	LS	M	Equipment Inspector Comments: Metal piled at landward toe obstructing visibility and ability to flood fight.	38.400699 ° -121.536049 °	38.400699 ° -121.536049 °	945
55	7.39	7.39	Earthen Levee	Encroachments	WS	PO	Landscaping	38.401481 ° -121.536876 °	38.401481 ° -121.536876 °	64
56	7.42	7.47	Earthen Levee	Encroachments	LS	PO	Landscaping	38.401738 ° -121.537127 °	38.402296 ° -121.537678 °	32 Y
57	7.50	7.50	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	38.402779 ° -121.538197 °	38.402779 ° -121.538197 °	63 Y
58	7.55	7.55	Earthen Levee	Encroachments	LS	PO	Landscaping	38.403161 ° -121.538610 °	38.403161 ° -121.538610 °	34 Y
59	7.58	7.58	Earthen Levee	Encroachments	LS	PO	Landscaping	38.403566 ° -121.538886 °	38.403566 ° -121.538886 °	934
60	7.60	7.60	Earthen Levee	Encroachments	LS	M	Prunings	38.403795 ° -121.539205 °	38.403795 ° -121.539205 °	935
61	8.21	8.21	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	38.409275 ° -121.539150 °	38.409275 ° -121.539150 °	946 Y
62	8.46	8.46	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	38.407960 ° -121.534898 °	38.407960 ° -121.534898 °	66 Y
63	8.48	8.48	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	38.407958 ° -121.534583 °	38.407958 ° -121.534583 °	67
64	8.52	8.62	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch Inspector Comments: Irrigation Ditch in landside toe	38.408238 ° -121.533866 °	38.409291 ° -121.532702 °	69
65	9.10	9.10	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	38.414660 ° -121.528996 °	38.414660 ° -121.528996 °	77 Y
66	9.12	9.12	Earthen Levee	Trim / Thin Trees	WS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.415158 ° -121.528822 °	38.415158 ° -121.528822 °	948 Y
67	9.19	9.19	Earthen Levee	Slope Stability	WS	C	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	38.415404 ° -121.527954 °	38.415404 ° -121.527954 °	949
68	9.35	9.35	Earthen Levee	Trim / Thin Trees	WS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.413433 ° -121.526180 °	38.413433 ° -121.526180 °	72
69	9.51	9.51	Earthen Levee	Trim / Thin Trees	WS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.413169 ° -121.523707 °	38.413169 ° -121.523707 °	73 Y
70	9.56	9.56	Earthen Levee	Trim / Thin Trees	WS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.413649 ° -121.523087 °	38.413649 ° -121.523087 °	74
71	9.56	9.56	Earthen Levee	Encroachments	LS	M	Equipment	38.413560 ° -121.522936 °	38.413560 ° -121.522936 °	950

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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.11
End Levee Mile	0.11
Location	Water Side
Category	Earthen Levee
Item	Vegetation
View of elderberry bush within 20 feet of shoulder blocking visibility and access.	
rduffey_f_20101007_180.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.20
End Levee Mile	0.21
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: no berm, 1:1 slope, tree hazards, clays and cobbles, 3 ft/s [2009 SiteID:ELK_0-2_L]	
rduffey_f_20101007_178.JPG	



Levee Mile Report Line	3
Start Levee Mile	0.36
End Levee Mile	0.36
Location	Water Side
Category	Earthen Levee
Item	Encroachments
View of steps, a dock, and associated utilities on the waterward slope.	
rduffey_f_20101007_136.jpg	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	5
Start Levee Mile	0.56
End Levee Mile	0.56
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
View of trees and bushes within 20 feet of the shoulder blocking visibility and access.	
rduffey_f_20101007_181.jpg	



Levee Mile Report Line	6
Start Levee Mile	0.92
End Levee Mile	0.95
Location	Land Side
Category	Earthen Levee
Item	Vegetation
View of elderberries on the landward slope blocking visibility and access.	
rduffey_f_20101007_137.jpg	



Levee Mile Report Line	7
Start Levee Mile	1.23
End Levee Mile	1.23
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Damaged slope from foot traffic and rain runoff at LM 1.23	
rduffey_f_20101007_139.jpg	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	10
Start Levee Mile	2.60
End Levee Mile	2.60
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of tree stumps on the landward slope.

rduffey\_f\_20101007\_140.jpg



Levee Mile Report Line	11
Start Levee Mile	2.78
End Levee Mile	2.78
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

View of a depression in the crown roadway looking upstream.

rduffey\_f\_20101007\_141.jpg



Levee Mile Report Line	12
Start Levee Mile	2.87
End Levee Mile	2.87
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of tree stumps on the waterward slope.

rduffey\_f\_20101007\_146.jpg



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	13
Start Levee Mile	3.01
End Levee Mile	3.01
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
View of tree stumps on the waterward slope.	
rduffey_f_20101007_147.jpg	



Levee Mile Report Line	14
Start Levee Mile	3.18
End Levee Mile	3.18
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
View of tree stumps on the waterward slope.	
rduffey_f_20101007_148.jpg	



Levee Mile Report Line	15
Start Levee Mile	3.21
End Levee Mile	3.21
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
View of tree stumps on the waterward slope.	
rduffey_f_20101007_149.jpg	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	16
Start Levee Mile	3.26
End Levee Mile	3.26
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
View of tree stumps on the waterward slope.	
rduffey_f_20101007_150.jpg	



Levee Mile Report Line	17
Start Levee Mile	3.41
End Levee Mile	3.41
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
View of tree stumps on the waterward slope.	
rduffey_f_20101007_153.jpg	



Levee Mile Report Line	18
Start Levee Mile	3.43
End Levee Mile	3.48
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Erosion damage on waterward toe from LM 3.43 to 3.48	
rduffey_f_20101007_142.jpg	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	19
Start Levee Mile	3.50
End Levee Mile	3.54
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping & garden on landward slope of levee at LM 3.50 to LM 3.54.	
rduffey_f_20101007_163.JPG	



Levee Mile Report Line	20
Start Levee Mile	3.75
End Levee Mile	3.75
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Repair minor damage to levee slope along landward ramp at LM 3.75.	
rduffey_f_20101007_179.jpg	



Levee Mile Report Line	21
Start Levee Mile	3.77
End Levee Mile	3.77
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Repair slope damaged by foot traffic at LM 3.77.	
rduffey_f_20101007_143.JPG	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	22
Start Levee Mile	3.95
End Levee Mile	3.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Debris pile on landward slope at LM 3.95.	
rduffey_f_20101007_164.JPG	



Levee Mile Report Line	22
Start Levee Mile	3.95
End Levee Mile	3.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Updated view of material piled at the toe of the levee as of fall 2009.	
rduffey_f_20101007_165.jpg	



Levee Mile Report Line	23
Start Levee Mile	4.06
End Levee Mile	4.06
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
View of depressions in the roadway looking upstream.	
rduffey_f_20101007_157.jpg	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	24
Start Levee Mile	4.35
End Levee Mile	4.35
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
View of tree stumps on the waterward slope.	
rduffey_f_20101007_158.jpg	



Levee Mile Report Line	26
Start Levee Mile	4.39
End Levee Mile	4.39
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
View of depressions in the crown roadway looking upstream.	
rduffey_f_20101007_159.jpg	



Levee Mile Report Line	27
Start Levee Mile	4.46
End Levee Mile	4.46
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Remove pruning pile on landward slope at LM 4.46.	
rduffey_f_20101007_167.JPG	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	29
Start Levee Mile	4.56
End Levee Mile	4.56
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping blocking view of landward slope from 4.50 to 4.58	
rduffey_f_20101007_144.jpg	



Levee Mile Report Line	29
Start Levee Mile	4.56
End Levee Mile	4.56
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Updated view of landscaping along landward slope.	
rduffey_f_20101007_145.jpg	



Levee Mile Report Line	30
Start Levee Mile	4.59
End Levee Mile	4.59
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
Thin/trim trees to allow for the top 20' waterward slope of levee to be seen at LM 4.59.	
rduffey_f_20101007_168.JPG	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	32
Start Levee Mile	4.99
End Levee Mile	4.99
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
View of trees along the landward slope blocking visibility and access.	
rduffey_f_20101007_182.jpg	



Levee Mile Report Line	34
Start Levee Mile	5.22
End Levee Mile	5.22
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
View of varying elevations in the crown of the levee at the transition from county road to access road.	
rduffey_f_20101007_183.jpg	



Levee Mile Report Line	36
Start Levee Mile	5.80
End Levee Mile	5.80
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
View of a tree stump on the waterward slope.	
rduffey_f_20101007_160.jpg	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	37
Start Levee Mile	5.89
End Levee Mile	5.94
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of fence around a horse pen along the shoulder of the levee and the landward slope.

rduffey\_f\_20101007\_169.jpg



Levee Mile Report Line	38
Start Levee Mile	5.93
End Levee Mile	5.93
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of a tree trunk lying on the landward slope blocking visibility.

rduffey\_f\_20101007\_170.jpg



Levee Mile Report Line	39
Start Levee Mile	5.93
End Levee Mile	5.93
Location	Crown
Category	Earthen Levee
Item	Encroachments

Building & associated landscaping on levee crown at LM 5.93.

rduffey\_f\_20101007\_171.JPG



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	42
Start Levee Mile	6.06
End Levee Mile	6.06
Location	Water Side
Category	Earthen Levee
Item	Encroachments
View of an improperly abandoned pipe through the levee looking upstream.	
rduffey_f_20101007_162.jpg	



Levee Mile Report Line	44
Start Levee Mile	6.24
End Levee Mile	6.31
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Oleander on landward slope blocking view of levee from LM 6.24 to 6.32	
rduffey_f_20101007_151.jpg	



Levee Mile Report Line	45
Start Levee Mile	6.34
End Levee Mile	6.34
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
View of tree stumps on the waterward slope.	
rduffey_f_20101007_166.jpg	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	47
Start Levee Mile	6.37
End Levee Mile	6.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping on landward slope blocking view from LM 6.37 to 6.40	
rduffey_f_20101007_152.jpg	



Levee Mile Report Line	48
Start Levee Mile	6.56
End Levee Mile	6.56
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of landscaping along the landward slope.	
rduffey_f_20101007_172.jpg	



Levee Mile Report Line	50
Start Levee Mile	6.87
End Levee Mile	6.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping on landward slope blocking view from LM 6.87 to 6.95	
rduffey_f_20101007_154.jpg	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	52
Start Levee Mile	7.02
End Levee Mile	7.02
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of erosion on the waterward shoulder looking upstream.

rduffey\_f\_20101007\_173.jpg



Levee Mile Report Line	56
Start Levee Mile	7.42
End Levee Mile	7.47
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping on landward slope blocking view from LM 7.42 to 7.47

rduffey\_f\_20101007\_155.jpg



Levee Mile Report Line	57
Start Levee Mile	7.50
End Levee Mile	7.50
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of a tree stump on the landward slope.

rduffey\_f\_20101007\_174.jpg



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	58
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping on landward slope blocking view from LM 7.52 to 7.58	
rduffey_f_20101007_156.jpg	



Levee Mile Report Line	61
Start Levee Mile	8.21
End Levee Mile	8.21
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
View of erosion occurring along the waterward slope.	
rduffey_f_20101007_185.jpg	



Levee Mile Report Line	62
Start Levee Mile	8.46
End Levee Mile	8.46
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Repair erosion on waterward slope near shoulder at LM 8.46.	
rduffey_f_20101007_175.JPG	



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

**Levee Inspection Report By Mile - Fall 2010**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	11/17/2010 11/17/2010	Bob Duffey

Levee Mile Report Line	65
Start Levee Mile	9.10
End Levee Mile	9.10
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
View of a tree stump on the waterward slope.	
rduffey_f_20101007_177.jpg	



Levee Mile Report Line	66
Start Levee Mile	9.12
End Levee Mile	9.12
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
View of a tree branch that has fallen and is blocking visibility and access.	
rduffey_f_20101007_186.jpg	



Levee Mile Report Line	69
Start Levee Mile	9.51
End Levee Mile	9.51
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
Thin/trim trees to allow for visibility of top 20' of waterward slope at LM 9.51.	
rduffey_f_20101007_176.JPG	



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