

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2013 Levee Maintenance Deficiency Summary Report**

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

**Sacramento River Basin**

<b>RD1600</b>	Overall LMA Rating	Total LMA Miles						
<b>Reclamation District No. 1600 Mull</b>	<b>U</b>	<b>14.73</b>						
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	25.60		25.60	173.80%				
Trim / Thin Trees	0.03		0.03	0.20%				
Encroachments					0.22			
Slope Stability	0.03		0.03	0.20%				
Erosion / Bank Caving	0.78	0.02	0.86	5.84%	0.02			
Crown Surface / Depressions / Rutting	3.28		3.28	22.27%				
<i>Supplemental</i>								
USACE Erosion Survey	0.05		0.05	0.34%				
DWR UCIP Field Study					0.11	0.07		
<i>LMA Totals:</i>	29.77	0.02	29.85	202.65%	0.35	0.07	0.00	0.00

<b>Unit No. 01 Sacramento River RB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD1600</b>	<b>U</b>	<b>10.51</b>						
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	18.76		18.76	178.50%				
Trim / Thin Trees	0.03		0.03	0.29%				
Encroachments					0.22			
Slope Stability	0.03		0.03	0.29%				
Erosion / Bank Caving	0.40	0.02	0.48	4.57%	0.02			
Crown Surface / Depressions / Rutting	0.01		0.01	0.10%				
<i>Supplemental</i>								
USACE Erosion Survey	0.05		0.05	0.48%				
DWR UCIP Field Study					0.11	0.05		
<i>Unit Totals:</i>	19.28	0.02	19.36	184.21%	0.35	0.05	0.00	0.00

<b>Unit No. 02 Yolo Bypass LB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD1600</b>	<b>U</b>	<b>4.22</b>						
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	6.84		6.84	162.09%				
Erosion / Bank Caving	0.38		0.38	9.01%				
Crown Surface / Depressions / Rutting	3.27		3.27	77.49%				
<i>Supplemental</i>								
DWR UCIP Field Study						0.02		
<i>Unit Totals:</i>	10.49	0.00	10.49	248.58%	0.00	0.02	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2013 Levee Inspection Results**

**Reclamation District No. 1600 Mull**

	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. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections  
Unit Cover Sheet  
Fall 2013 Levee Inspection Results  
Reclamation District No. 1600 Mull**

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Right	10.51
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	-		11/13/2013 - 11/13/2013	
DWR Inspector	John Williamson		John Williamson	
Accompanied By	Kent Lang RD1600		Kent Lang RD1600	
	Kyle Lang RD 537/ RD 1600		Kyle Lang RD 537/ RD 1600	

**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 2013**

**Reclamation District No. 1600 Mull**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River							Right	10.51	11/13/2013 11/13/2013	John Williamson
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Earthen Levee	Operations & Maintenance Manuals	WS	A Ma		°	°	32
									°	°
DWR ID: DWR_RD1600_01_s_2013_32										
2			Earthen Levee	Emergency Supplies & Equipment	WS	A Ma		°	°	33
									°	°
DWR ID: DWR_RD1600_01_s_2013_33										
3			Earthen Levee	Flood Preparedness & Training	WS	A Ma		°	°	34
									°	°
DWR ID: DWR_RD1600_01_s_2013_34										
4	0.01	0.09	Earthen Levee	Encroachments	WS	M En	FE : Fence Inspector Comments: Chain link completely blocks access to water's edge.	38.675242 ° -121.630492 °	38.676356 ° -121.631157 °	3 Y
DWR ID: DWR_RD1600_01_s_2012_3										
5	0.06	0.06	Earthen Levee	Encroachments	WS	M En	BU : Building Inspector Comments: This is the home and pumping plant for RD 2035.	38.675998 ° -121.630732 °	38.675998 ° -121.630732 °	1 Y
DWR ID: DWR_RD1600_01_s_2012_1										
6	0.10	0.10	Earthen Levee	Encroachments	WS	M En	BU : Building Inspector Comments: This is a well pump house. It is potable water for the house and pumping plant.	38.676467 ° -121.631217 °	38.676467 ° -121.631217 °	129 Y
DWR ID: DWR_RD1600_01_f_2013_129										
7	0.10	0.10	Earthen Levee	Encroachments	WS	M En	DE : Debris Inspector Comments: Pile of concrete.	38.676480 ° -121.631220 °	38.676480 ° -121.631220 °	29 Y
DWR ID: DWR_RD1600_01_s_2012_29										
8	0.10	0.24	Earthen Levee	Vegetation	WSA/W	Ob	V8 : Environmental Requirements.	38.676480 ° -121.631220 °	38.678140 ° -121.632330 °	49 Y
DWR ID: DWR_RD1600_01_s_2012_49										
9	0.11	1.17	Earthen Levee	Vegetation	LS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.676559 ° -121.631234 °	38.691234 ° -121.635640 °	130 Y
DWR ID: DWR_RD1600_01_f_2013_130										
10	0.11	1.17	Earthen Levee	Vegetation	WS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.676558 ° -121.631234 °	38.691233 ° -121.635641 °	131 Y
DWR ID: DWR_RD1600_01_f_2013_131										
11	0.14	0.14	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:15087 EP_NO: 1929 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Line should be located with carsonite signs on both sides of levee. FIELD_STRUCT_DESC: Telephone cable through levee 3.0 feet below crown. Telephone line at JP off LS toe (Permit No. 1929, 1959). FS Date: 6/18/2013	38.676802 ° -121.631442 °	38.676802 ° -121.631442 °	113
DWR ID: DWR_RD1600_01_f_2013_113										

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
12	0.14	0.14	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:15044 EP_NO: 1929 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Line should be located with carsonite signs on both sides of levee. FIELD_STRUCT_DESC: Telephone cable through levee 3.0 feet below crown. Telephone line at JP off LS toe (Permit No. 1929, 1959). FS Date: 6/18/2013	38.676802 ° -121.631442 °	38.676802 ° -121.631442 °	114
DWR ID: DWR_RD1600_01_f_2013_114										
13	0.22	0.29	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.677861 ° -121.632178 °	38.678780 ° -121.632677 °	132 Y
DWR ID: DWR_RD1600_01_f_2013_132										
14	0.53	0.53	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E2 : Schedule repair of erosion site prior to the next inspection.	38.682140 ° -121.634083 °	38.682140 ° -121.634083 °	133 Y
DWR ID: DWR_RD1600_01_f_2013_133										
15	0.57	0.57	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2000 - Very cohesive vertical bank. 2003 - Some minor new erosion. 2006 - Some minor erosion in old pockets. 2009 - Minimal new erosion. 2011 - Multiple new erosion pockets and a few new tree popouts. 2012: No observed change. [2012 Site ID: SAC_71-3_R]	38.684106 ° -121.634219 °	38.682707 ° -121.633830 °	6 Y
DWR ID:										
16	0.95	0.95	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:15085 EP_NO: 6100 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Gate valve will not open or close. FIELD_STRUCT_DESC: 12-inch pipe through levee 3.4 feet below crown. Slant pump and gate valve on the waterward- slope. Siphon breaker in 12-inch steel riser on the landward shoulder. Filter, booster pump, and butterfly valve on LS toe. 2.25-inch galvanized iron electrical conduit at same location (Permit No. 6100, 1968). Replaced 8-inch pipe at same location. FS Date: 6/18/2013	38.688030 ° -121.635367 °	38.688030 ° -121.635367 °	115
DWR ID: DWR_RD1600_01_f_2013_115										
17	0.95	0.95	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:15285 EP_NO: 6100 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Gate valve will not open or close. FIELD_STRUCT_DESC: 12-inch pipe through levee 3.4 feet below crown. Slant pump and gate valve on the waterward- slope. Siphon breaker in 12-inch steel riser on the landward shoulder. Filter, booster pump, and butterfly valve on LS toe. 2.25-inch galvanized iron electrical conduit at same location (Permit No. 6100, 1968). Replaced 8-inch pipe at same location. FS Date: 6/18/2013	38.688030 ° -121.635367 °	38.688030 ° -121.635367 °	116 Y
DWR ID: DWR_RD1600_01_f_2013_116										

**\* 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 2013**

**Reclamation District No. 1600 Mull**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River						Right	10.51	11/13/2013 11/13/2013	John Williamson

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
18	0.98	0.98	Earthen Levee	Slope Stability	LS	M Ma	S1 : Repair slope instability.	38.688454 ° -121.635528 °	38.688454 ° -121.635528 °	134 Y
DWR ID: DWR_RD1600_01_f_2013_134										
19	1.02	1.11	Earthen Levee	Vegetation	WSA/W	V8 : Environmental Requirements.		38.689078 ° -121.635605 °	38.690267 ° -121.635650 °	22 Y
DWR ID: DWR_RD1600_01_s_2012_22										
20	1.17	10.51	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.691234 ° -121.635640 °	38.765487 ° -121.634929 °	135 Y
DWR ID: DWR_RD1600_01_f_2013_135										
21	1.17	10.51	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.691234 ° -121.635639 °	38.765487 ° -121.634928 °	136 Y
DWR ID: DWR_RD1600_01_f_2013_136										
22	1.40	1.40	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: Damage looks like caused by vehicles.	38.694395 ° -121.634376 °	38.694395 ° -121.634376 °	4 Y
DWR ID: DWR_RD1600_01_f_2012_4										
23	1.42	1.42	Earthen Levee	Vegetation	WSA/W	V8 : Environmental Requirements.		38.694589 ° -121.634286 °	38.694589 ° -121.634286 °	5 Y
DWR ID: DWR_RD1600_01_f_2012_5										
24	1.58	1.58	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.696748 ° -121.633201 °	38.696748 ° -121.633201 °	7 Y
DWR ID: DWR_RD1600_01_f_2012_7										
25	1.73	1.73	Earthen Levee	Vegetation	WSA/W	V8 : Environmental Requirements.		38.698613 ° -121.631710 °	38.698613 ° -121.631710 °	31 Y
DWR ID: DWR_RD1600_01_s_2012_31										
26	1.76	1.76	Earthen Levee	Crown Surface / Depressions / Rutting	WS	M Ma	C2 : Repair depressions or ruts in the crown or slope.	38.699130 ° -121.631300 °	38.699130 ° -121.631300 °	137 Y
DWR ID: DWR_RD1600_01_f_2013_137										
27	1.94	1.94	Earthen Levee	Trim / Thin Trees	CR	M Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	38.700862 ° -121.629183 °	38.700862 ° -121.629183 °	138 Y
DWR ID: DWR_RD1600_01_f_2013_138										
28	2.02	2.02	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E2 : Schedule repair of erosion site prior to the next inspection.	38.701590 ° -121.627991 °	38.701590 ° -121.627991 °	17 Y
DWR ID: DWR_RD1600_01_f_2012_17										
29	2.08	2.08	Earthen Levee	Erosion / Bank Caving	CR	U Ma	E2 : Schedule repair of erosion site prior to the next inspection.	38.702121 ° -121.627123 °	38.702121 ° -121.627123 °	24 Y
DWR ID: DWR_RD1600_01_f_2012_24										
30	2.36	2.42	Earthen Levee	Vegetation	WSA/W	V8 : Environmental Requirements.		38.704592 ° -121.623067 °	38.705152 ° -121.622187 °	35 Y
DWR ID: DWR_RD1600_01_s_2012_35										
31	2.42	2.42	Earthen Levee	Slope Stability	LS	M Ma	S1 : Repair slope instability.	38.705152 ° -121.622190 °	38.705152 ° -121.622190 °	143 Y
DWR ID: DWR_RD1600_01_f_2013_143										

**\* 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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
32	2.83	2.83	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:15108 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and should be done so properly. Debris buildup on pier. Power cut to pump. FIELD_STRUCT_DESC: 16-inch pipe through levee 2-feet below crown. Walkway from berm to pump on pile structure in the stream. Siphon breaker on the landward slope. 12-inch PVC standpipe off LS toe. Originally included in 1955 O+M manual. FS Date: 6/18/2013	38.709350 ° -121.616913 °	38.709350 ° -121.616913 °	117 Y
DWR ID: DWR_RD1600_01_f_2013_117										
33	2.89	2.89	Earthen Levee	Trim / Thin Trees	CR	M Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	38.709898 ° -121.616180 °	38.709898 ° -121.616180 °	139 Y
DWR ID: DWR_RD1600_01_f_2013_139										
34	2.94	2.94	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:15110 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned and should be removed from levee. FIELD_STRUCT_DESC: *Abandoned* 10-inch concrete pipe through levee 5.0 feet below crown. Pipe visible on LS slope. Originally included in the 1955 O&M manual. FS Date: 6/18/2013	38.710497 ° -121.615381 °	38.710497 ° -121.615381 °	118 Y
DWR ID: DWR_RD1600_01_f_2013_118										
35	3.06	3.06	Earthen Levee	Vegetation	LS A/W	Ma	V4 : Elderberries are blocking visibility and flood fight capability.	38.711597 ° -121.613890 °	38.711597 ° -121.613890 °	37 Y
DWR ID: DWR_RD1600_01_s_2012_37										
36	3.06	3.06	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E2 : Schedule repair of erosion site prior to the next inspection.	38.711655 ° -121.613871 °	38.711655 ° -121.613871 °	140 Y
DWR ID: DWR_RD1600_01_f_2013_140										
37	3.60	3.60	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 1997 - Steep high bank. 2005 - Some small pockets in the low toe near the waterline. 2006 - Minor slope clearing. 2010 - Minor new erosion. 2011 - Multiple trees have fallen since last year. Some other trees look ready to fall. Significant new erosion since last year. 2012: Minor new erosion. [2012 Site ID: SAC_74-4_R]	38.721351 ° -121.606414 °	38.717770 ° -121.607423 °	8 Y
DWR ID:										
38	3.79	3.79	Earthen Levee	Erosion / Bank Caving	WS	M En	E1 : Note and monitor erosion site. Inspector Comments: Trees have fallen over and created bank erosion.	38.720417 ° -121.606962 °	38.720417 ° -121.606962 °	2 Y
DWR ID: DWR_RD1600_01_s_2013_2										
39	4.02	4.02	Earthen Levee	Trim / Thin Trees	WS	M Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Tree has fallen on levee slope.	38.723792 ° -121.606622 °	38.723792 ° -121.606622 °	9 Y
DWR ID: DWR_RD1600_01_s_2013_9										

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

40	4.35	4.35	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 1997 - Very steep bank. 2005 - Lots of small trees down along the bank at the upstream end. 2006 - Minor new erosion, but slow. 2010 - Almost all of the roots are exposed on the trees, appears ready to fall. 2011 - New erosion and tree popouts. 2012: No observed change, however site is overgrown and hard to observe. [2012 Site ID: SAC_75-3_R]	38.736110 ° -121.604153 °	38.728684 ° -121.605844 °	10 Y
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DWR ID:

41	4.53	4.53	Supplemental	DWR UCIP Field Study	WS	M	Inspector Comments: FS_ID:15125 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pumphouse abandoned with deep pit open. Safety issue. If plant is abandoned it should be done so properly. FIELD_STRUCT_DESC: 24-inch pipe through the levee 21.4 feet below the crown. 16-inch pipe ties into 24-inch at WS slope. Slant pump on metal platform and gate valve on water side berm. Gate valve in pump house off the landward side. Two power poles at the toe of the landward slope. FS Date: 6/18/2013 7:36:00 AM	38.731143 ° -121.605825 °	38.731143 ° -121.605825 °	119 Y
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DWR ID: DWR\_RD1600\_01\_f\_2013\_119

42	4.80	4.80	Earthen Levee	Slope Stability	LS	M	S1 : Repair slope instability.	38.734840 ° -121.605026 °	38.734840 ° -121.605026 °	141 Y
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DWR ID: DWR\_RD1600\_01\_f\_2013\_141

43	4.85	4.85	Earthen Levee	Trim / Thin Trees	LS	N	T5 : Tree stumps.	38.735608 ° -121.604794 °	38.735608 ° -121.604794 °	14 Y
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DWR ID: DWR\_RD1600\_01\_s\_2013\_14

44	4.89	4.89	Earthen Levee	Erosion / Bank Caving	LS	U	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: Hole in pipe causing erosion of levee slope. Replace pipe and repair damage.	38.736250 ° -121.604605 °	38.736250 ° -121.604605 °	25 Y
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DWR ID: DWR\_RD1600\_01\_f\_2012\_25

45	4.90	4.90	Supplemental	DWR UCIP Field Study	LS	U	Inspector Comments: FS_ID:15130 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: No pump on pier and pipe open on both ends without a closure device. FIELD_STRUCT_DESC: 18-inch steel pipe through levee 6.7-feet below crown. Pump on wooden pier off waterward side. Air vents on WS slope and meter at outlet on LS toe. 6'X14' concrete distribution box off LS toe. 2-inch galvanized iron electrical conduit through the levee at same location. Originally included in the 1955 O&M manual. FS Date: 6/18/2013	38.736299 ° -121.604582 °	38.736299 ° -121.604582 °	120 Y
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DWR ID: DWR\_RD1600\_01\_f\_2013\_120

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 1600 Mull

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
52	6.96	6.96	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2006 - Eddy scour off end of rock causing erosion and scour hole near levee. Sandy silt bank with rock on upstream end. 2010 - Trees are leaning more, minor new erosion. 2011 - Many of the tree roots have scoured out and trees look ready to fall. 2012: No observed change. [2012 Site ID: SAC_77-7_R]	38.765219 ° -121.595049 °	38.764801 ° -121.594926 °	12 Y
DWR ID: _____										
53	7.01	7.01	Earthen Levee	Erosion / Bank Caving	WS	M	E1 : Note and monitor erosion site.	38.764943 ° -121.595504 °	38.764943 ° -121.595504 °	30 Y
DWR ID: DWR_RD1600_01_s_2013_30										
54	7.02	7.02	Earthen Levee	Erosion / Bank Caving	LS	M	E1 : Note and monitor erosion site.	38.764974 ° -121.595533 °	38.764974 ° -121.595533 °	27 Y
DWR ID: DWR_RD1600_01_s_2012_27										
55	7.13	7.13	Earthen Levee	Erosion / Bank Caving	WS	M	E1 : Note and monitor erosion site.	38.766505 ° -121.596214 °	38.766505 ° -121.596214 °	20 Y
DWR ID: DWR_RD1600_01_s_2012_20										
56	7.27	7.27	Earthen Levee	Erosion / Bank Caving	WS	M	E1 : Note and monitor erosion site.	38.768409 ° -121.597213 °	38.768409 ° -121.597213 °	21 Y
DWR ID: DWR_RD1600_01_s_2012_21										
57	7.60	7.60	Supplemental	DWR UCIP Field Study	WS	U	Inspector Comments: FS_ID:15264 EP_NO: 1596 Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe leaking and causing erosion on LS slope. Likely this pipe has severe internal corrosion and likely needs to be replaced. No 24-inch pipes found at this location...only a 30-inch. FIELD_STRUCT_DESC: 30-inch riveted steel irrigation pipe through the levee 5.5 feet below the crown. Gate valve in pump house on the waterward slope. Slant pump on structure on the bank. Walkway from the pump house to the structure. 2-inch galvanized iron electrical conduit at same location (Permit No. 1596, 1959). FS Date: 6/20/2013	38.772560 ° -121.600153 °	38.772560 ° -121.600153 °	123 Y
DWR ID: DWR_RD1600_01_f_2013_123										
58	7.60	7.60	Supplemental	DWR UCIP Field Study	WS	U	Inspector Comments: FS_ID:15263 EP_NO: 1596 Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe rusted through on LS slope and creating erosion on the levee. Pipe should be replaced. FIELD_STRUCT_DESC: 30-inch riveted steel irrigation pipe through the levee 6.5 feet below the crown. Pumphouse and gate valve on waterward side with walkway to the slant pump on the WS berm. 2-inch galvanized steel electrical conduit at same location. Originally included in the 1955 O&M manual. FS Date: 6/20/2013	38.772560 ° -121.600153 °	38.772560 ° -121.600153 °	124 Y
DWR ID: DWR_RD1600_01_f_2013_124										

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

## Reclamation District No. 1600 Mull

DWR ID: DWR\_RD1600\_01\_f\_2013\_127

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
62	8.07	8.07	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:15247 EP_NO: 7339 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to determine disposition of pipe. If abandoned, it should be done so properly. FIELD_STRUCT_DESC: 24-inch steel pipe through levee 3.8 feet below crown. Steel plate welded on the waterward end. Pipe not visible on either slope. Pylons in river at WS toe and a 4-foot diameter steel standpipe on the LS toe (Permit No. 7339, 1977) Seepage area at toe of the landward slope. FS Date: 6/20/2013	38.777799 ° -121.609763 °	38.777799 ° -121.609763 °	128 Y
DWR ID: DWR_RD1600_01_f_2013_128										
63	9.41	9.52	Earthen Levee	Encroachments	WS	M En	PI : Pipe	38.779285 ° -121.626792 °	38.777562 ° -121.627669 °	142 Y
DWR ID: DWR_RD1600_01_f_2013_142										

**\* 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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	4
Start Levee Mile	0.01
End Levee Mile	0.09
Location	Water Side
Category	Earthen Levee
Item	Encroachments
A chain link fence across the crown and waterside levee slope. Fall 2013	
johngw_f_20131114_320.JPG	



Levee Mile Report Line	5
Start Levee Mile	0.06
End Levee Mile	0.06
Location	Water Side
Category	Earthen Levee
Item	Encroachments
The caretakers home for the operator of the pumping plant (RD 1213). Fall 2013	
johngw_f_20131114_321.JPG	



Levee Mile Report Line	6
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Water Side
Category	Earthen Levee
Item	Encroachments
The small building is a pump house for the well. It services the house with water. Fall 2013	
johngw_f_20131114_322.JPG	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	7
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Water Side
Category	Earthen Levee
Item	Encroachments

A pile of concrete left over from the drilling of the well. Photo taken spring 2012.

johngw\_f\_20131021\_638.jpg



Levee Mile Report Line	8
Start Levee Mile	0.10
End Levee Mile	0.24
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Revegetation site. Photo taken spring 2012.

johngw\_f\_20131021\_647.jpg



Levee Mile Report Line	8
Start Levee Mile	0.10
End Levee Mile	0.24
Location	Water Side
Category	Earthen Levee
Item	Vegetation

The revegetation area is fenced off but nobody has been caring for it. Fall 2013

johngw\_f\_20131114\_323.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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	9
Start Levee Mile	0.11
End Levee Mile	1.17
Location	Land Side
Category	Earthen Levee
Item	Vegetation

The goats are in the district now and a view of the landside area. Fall 2013

johngw\_f\_20131114\_324.JPG



Levee Mile Report Line	10
Start Levee Mile	0.11
End Levee Mile	1.17
Location	Water Side
Category	Earthen Levee
Item	Vegetation

The goats have done a good job on the waterside. Fall 2013

johngw\_f\_20131114\_325.JPG



Levee Mile Report Line	13
Start Levee Mile	0.22
End Levee Mile	0.29
Location	Water Side
Category	Earthen Levee
Item	Vegetation

The Arundo has increased in size and obstructs the view of the levee slope. Fall 2013

johngw\_f\_20131114\_326.JPG



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	14
Start Levee Mile	0.53
End Levee Mile	0.53
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

The erosion on the landside shoulder is caused by foot traffic. Fall 2013

johngw\_f\_20131114\_327.JPG



Levee Mile Report Line	15
Start Levee Mile	0.57
End Levee Mile	0.57
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2013\_SAC\_71-3\_R\_1.jpg



Levee Mile Report Line	15
Start Levee Mile	0.57
End Levee Mile	0.57
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2013\_SAC\_71-3\_R\_2.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	15
Start Levee Mile	0.57
End Levee Mile	0.57
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2013\_SAC\_71-3\_R\_3.jpg



Levee Mile Report Line	17
Start Levee Mile	0.95
End Levee Mile	0.95
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Siphon breaker in steel riser on LS shoulder and concrete standpipe off LS toe.

UCIP\_8068.jpg



Levee Mile Report Line	18
Start Levee Mile	0.98
End Levee Mile	0.98
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

The levee has a deep depression caused by slope stability. Fall 2013

johngw\_f\_20131114\_328.JPG



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	19
Start Levee Mile	1.02
End Levee Mile	1.11
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Revegetation site. Photo taken spring 2012.

johngw\_f\_20131021\_631.jpg



Levee Mile Report Line	19
Start Levee Mile	1.02
End Levee Mile	1.11
Location	Water Side
Category	Earthen Levee
Item	Vegetation

The revegetation site along the berm and shoulder of the river.

johngw\_f\_20131021\_632.jpg



Levee Mile Report Line	20
Start Levee Mile	1.17
End Levee Mile	10.51
Location	Land Side
Category	Earthen Levee
Item	Vegetation

The goats are working through the levee and have not far. Fall 2013

johngw\_f\_20131114\_329.JPG



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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	21
Start Levee Mile	1.17
End Levee Mile	10.51
Location	Water Side
Category	Earthen Levee
Item	Vegetation

The goats are working through the area and need to finish. Fall 2013

johngw\_f\_20131114\_330.JPG



Levee Mile Report Line	22
Start Levee Mile	1.40
End Levee Mile	1.40
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Vehicles and people have created some erosion on the levee. Fall 2012

johngw\_f\_20131021\_604.jpg



Levee Mile Report Line	22
Start Levee Mile	1.40
End Levee Mile	1.40
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Erosion from vehicles on levee slope. Spring 2013

johngw\_f\_20131021\_605.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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	23
Start Levee Mile	1.42
End Levee Mile	1.42
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Revegetation site. Fall 2012.

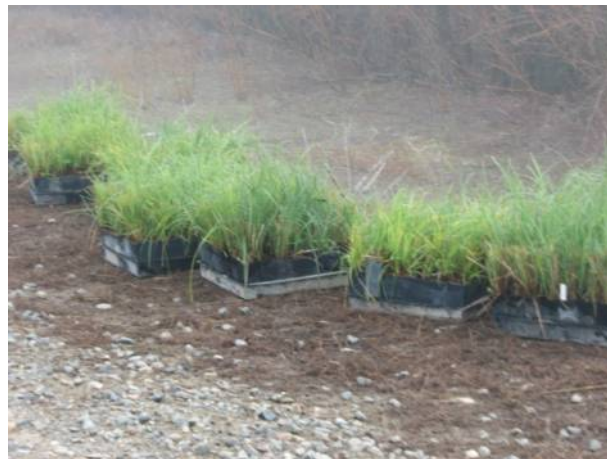
johngw\_f\_20131021\_606.jpg



Levee Mile Report Line	23
Start Levee Mile	1.42
End Levee Mile	1.42
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Flats of plant material to be planted at the site.  
Fall 2012

johngw\_f\_20131021\_607.jpg



Levee Mile Report Line	24
Start Levee Mile	1.58
End Levee Mile	1.58
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Willows are growing on the waterside shoulder.  
They have been grazed by goats. Fall 2012

johngw\_f\_20131021\_611.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	24
Start Levee Mile	1.58
End Levee Mile	1.58
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Willows are starting to come back creeping up on to the shoulder. Spring 2013

johngw\_f\_20131021\_612.JPG



Levee Mile Report Line	25
Start Levee Mile	1.73
End Levee Mile	1.73
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Revegetation site with the Elderberry Beetle. Photo taken spring 2012.

johngw\_f\_20131021\_640.jpg



Levee Mile Report Line	25
Start Levee Mile	1.73
End Levee Mile	1.73
Location	Water Side
Category	Earthen Levee
Item	Vegetation

A photo of a Elderberry bush in the area.

johngw\_f\_20131021\_641.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	26
Start Levee Mile	1.76
End Levee Mile	1.76
Location	Water Side
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

It appears that a dozer has pushed a pile of brush to the waters edge. Fall 2013

johngw\_f\_20131114\_331.JPG



Levee Mile Report Line	26
Start Levee Mile	1.76
End Levee Mile	1.76
Location	Water Side
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

A look at the cut done by the dozer. Fall 2013

johngw\_f\_20131114\_332.JPG



Levee Mile Report Line	27
Start Levee Mile	1.94
End Levee Mile	1.94
Location	Crown
Category	Earthen Levee
Item	Trim / Thin Trees

Trees need to be trimmed to at least 12 feet above the crown. Fall 2013

johngw\_f\_20131114\_333.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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	27
Start Levee Mile	1.94
End Levee Mile	1.94
Location	Crown
Category	Earthen Levee
Item	Trim / Thin Trees

Many trees need to be trimmed up above the crown. Fall 2013

johngw\_f\_20131114\_334.JPG



Levee Mile Report Line	28
Start Levee Mile	2.02
End Levee Mile	2.02
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Vehicle and foot traffic has caused erosion. Fall 2012

johngw\_f\_20131021\_625.jpg



Levee Mile Report Line	29
Start Levee Mile	2.08
End Levee Mile	2.08
Location	Crown
Category	Earthen Levee
Item	Erosion / Bank Caving

The hole in the crown is 1X2 feet and 1 foot deep. Fall 2012

johngw\_f\_20131021\_633.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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	29
Start Levee Mile	2.08
End Levee Mile	2.08
Location	Crown
Category	Earthen Levee
Item	Erosion / Bank Caving

A hole in the crown needs to be repaired. Fall 2013

johngw\_f\_20131114\_335.JPG



Levee Mile Report Line	30
Start Levee Mile	2.36
End Levee Mile	2.42
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Revegetation site, photo taken spring 2012.

johngw\_f\_20131021\_642.jpg



Levee Mile Report Line	30
Start Levee Mile	2.36
End Levee Mile	2.42
Location	Water Side
Category	Earthen Levee
Item	Vegetation

The revegetation site extends almost to the hinge point.

johngw\_f\_20131021\_643.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	31
Start Levee Mile	2.42
End Levee Mile	2.42
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

The levee slope appears to have slipped at the shoulder. Fall 2013

johngw\_f\_20131114\_336.JPG



Levee Mile Report Line	32
Start Levee Mile	2.83
End Levee Mile	2.83
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Pump on metal platform off WS berm.

UCIP\_8004.jpg



Levee Mile Report Line	33
Start Levee Mile	2.89
End Levee Mile	2.89
Location	Crown
Category	Earthen Levee
Item	Trim / Thin Trees

Trees need to be trimmed up to at least 12 feet above the crown. Fall 2013

johngw\_f\_20131114\_337.JPG



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	34
Start Levee Mile	2.94
End Levee Mile	2.94
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Pipe visible on LS slope.

UCIP\_8006.jpg



Levee Mile Report Line	35
Start Levee Mile	3.06
End Levee Mile	3.06
Location	Land Side
Category	Earthen Levee
Item	Vegetation

A large stand of elderberries on the landside slope. Fall 2012

johngw\_f\_20131021\_644.jpg



Levee Mile Report Line	36
Start Levee Mile	3.06
End Levee Mile	3.06
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Erosion caused by vehicle traffic on the landside slope. Fall 2013

johngw\_f\_20131114\_338.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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	37
Start Levee Mile	3.60
End Levee Mile	3.60
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2013\_SAC\_74-4\_R\_1.jpg



Levee Mile Report Line	37
Start Levee Mile	3.60
End Levee Mile	3.60
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2013\_SAC\_74-4\_R\_2.jpg



Levee Mile Report Line	37
Start Levee Mile	3.60
End Levee Mile	3.60
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2013\_SAC\_74-4\_R\_3.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	38
Start Levee Mile	3.79
End Levee Mile	3.79
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Trees have fallen and the water has created the erosion into the berm. Spring 2013

johngw\_f\_20131021\_602.JPG



Levee Mile Report Line	39
Start Levee Mile	4.02
End Levee Mile	4.02
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

A large tree has fallen on the waterside berm and slope. Fall 2013

johngw\_f\_20131114\_339.JPG



Levee Mile Report Line	40
Start Levee Mile	4.35
End Levee Mile	4.35
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2013\_SAC\_75-3\_R\_1.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
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**+ Issue Type**

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	40
Start Levee Mile	4.35
End Levee Mile	4.35
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2013\_SAC\_75-3\_R\_2.jpg



Levee Mile Report Line	40
Start Levee Mile	4.35
End Levee Mile	4.35
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2013\_SAC\_75-3\_R\_3.jpg



Levee Mile Report Line	41
Start Levee Mile	4.53
End Levee Mile	4.53
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Slant pump on metal pier on WS berm.

UCIP\_8008.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	42
Start Levee Mile	4.80
End Levee Mile	4.80
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

The erosion at the shoulder of the levee could be slope instability. Fall 2013

johngw\_f\_20131114\_340.JPG



Levee Mile Report Line	43
Start Levee Mile	4.85
End Levee Mile	4.85
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Tree stumps on the levee slope has been sprayed. Fall 2013

johngw\_f\_20131114\_341.JPG



Levee Mile Report Line	44
Start Levee Mile	4.89
End Levee Mile	4.89
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

The concrete collection box across the road. Fall 2012

johngw\_f\_20131021\_634.jpg



**\* Location**

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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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	44
Start Levee Mile	4.89
End Levee Mile	4.89
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

The hole in the levee slope from the leaking pipe. Fall 2012

johngw\_f\_20131021\_635.jpg



Levee Mile Report Line	45
Start Levee Mile	4.90
End Levee Mile	4.90
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

6'X14' concrete distribution box off LS toe.

UCIP\_8021.jpg



Levee Mile Report Line	47
Start Levee Mile	5.43
End Levee Mile	5.43
Location	Land Side
Category	Earthen Levee
Item	Vegetation

A thick stand of elderberries on the landside. Fall 2012

johngw\_f\_20131021\_622.jpg



**\* 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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	50
Start Levee Mile	6.22
End Levee Mile	6.22
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study
6'X6' concrete distribution box on LS toe.	
UCIP_8046.jpg	



Levee Mile Report Line	51
Start Levee Mile	6.31
End Levee Mile	6.31
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #1	
USACE2013_SAC_77-0_R_1.jpg	



Levee Mile Report Line	51
Start Levee Mile	6.31
End Levee Mile	6.31
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #2	
USACE2013_SAC_77-0_R_2.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	51
Start Levee Mile	6.31
End Levee Mile	6.31
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2013\_SAC\_77-0\_R\_3.jpg



Levee Mile Report Line	52
Start Levee Mile	6.96
End Levee Mile	6.96
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2013\_SAC\_77-7\_R\_1.jpg



Levee Mile Report Line	52
Start Levee Mile	6.96
End Levee Mile	6.96
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2013\_SAC\_77-7\_R\_2.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	53
Start Levee Mile	7.01
End Levee Mile	7.01
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Erosion is into the berm area and needs to be monitored. Spring 2013	
johngw_f_20131021_639.JPG	



Levee Mile Report Line	54
Start Levee Mile	7.02
End Levee Mile	7.02
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
The erosion appears to be moving closer to the shoulder.	
johngw_f_20131021_636.jpg	



Levee Mile Report Line	55
Start Levee Mile	7.13
End Levee Mile	7.13
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
The erosion is eroding away at the berm area.	
johngw_f_20131021_627.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	55
Start Levee Mile	7.13
End Levee Mile	7.13
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

This another view of the site.

johngw\_f\_20131021\_628.jpg



Levee Mile Report Line	56
Start Levee Mile	7.27
End Levee Mile	7.27
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

The bank is eroding away and has become very steep.

johngw\_f\_20131021\_629.jpg



Levee Mile Report Line	56
Start Levee Mile	7.27
End Levee Mile	7.27
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

The erosion is eroding away the berm area.

johngw\_f\_20131021\_630.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	57
Start Levee Mile	7.60
End Levee Mile	7.60
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Pipe on LS shoulder.

UCIP\_8059.jpg



Levee Mile Report Line	62
Start Levee Mile	8.07
End Levee Mile	8.07
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

4-foot diameter steel standpipe at LS toe, may be indicator of pipe location.

UCIP\_8056.jpg



Levee Mile Report Line	63
Start Levee Mile	9.41
End Levee Mile	9.52
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Irrigation pipe along the shoulder to irrigate reseed area. Fall 2013

johngw\_f\_20131114\_342.JPG



**\* Location**

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A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

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

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	63
Start Levee Mile	9.41
End Levee Mile	9.52
Location	Water Side
Category	Earthen Levee
Item	Encroachments

The connection to the pump for the irrigation pipe.  
A tee post holds it in place. This makes access  
difficult. Fall 2013

johngw\_f\_20131114\_343.JPG



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

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2013 Levee Inspection Results**

**Reclamation District No. 1600 Mull**

Waterway			Bank	Unit Miles
Unit No. 02 Yolo Bypass			Left	4.22
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	-		11/13/2013 - 11/13/2013	
DWR Inspector	John Williamson		John Williamson	
Accompanied By	Kent Lang RD 1600		Kent Lang RD 1600	
	Kyle Lang RD 537/ RD 1600		Kyle Lang RD 537/ RD 1600	

**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 2013**

**Reclamation District No. 1600 Mull**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass				Left	4.22	11/13/2013 11/13/2013	John Williamson

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.16	3.69	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.733783 ° -121.633490 °	38.683964 ° -121.644533 °	5 Y
DWR ID: DWR_RD1600_02_f_2013_5										
2	0.38	3.69	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.730333 ° -121.633455 °	38.683964 ° -121.644533 °	8 Y
DWR ID: DWR_RD1600_02_f_2013_8										
3	0.47	0.56	Earthen Levee	Crown Surface / Depressions / Rutting	CR	C Ma	C2 : Repair depressions or ruts in the crown or slope.	38.729204 ° -121.633469 °	38.728002 ° -121.633470 °	1
DWR ID: DWR_RD1600_02_s_2013_1										
4	0.49	0.49	Earthen Levee	Encroachments	WS	C En	PR : Prunings	38.728902 ° -121.633465 °	38.728902 ° -121.633465 °	30
DWR ID: DWR_RD1600_02_s_2012_30										
5	0.68	0.77	Earthen Levee	Crown Surface / Depressions / Rutting	CR A/W	M Ma	C3 : Add appropriate gravel or road base. Grade and compact.	38.726252 ° -121.633424 °	38.724869 ° -121.633411 °	11 Y
DWR ID: DWR_RD1600_02_s_2012_11										
6	0.85	4.08	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C3 : Add appropriate gravel or road base. Grade and compact.	38.723730 ° -121.633372 °	38.678393 ° -121.643858 °	31 Y
DWR ID: DWR_RD1600_02_s_2012_31										
7	1.13	1.13	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C2 : Repair depressions or ruts in the crown or slope.	38.719719 ° -121.633925 °	38.719719 ° -121.633925 °	2 Y
DWR ID: DWR_RD1600_02_s_2013_2										
8	1.51	1.51	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C2 : Repair depressions or ruts in the crown or slope.	38.714343 ° -121.635628 °	38.714343 ° -121.635628 °	6 Y
DWR ID: DWR_RD1600_02_s_2013_6										
9	1.65	1.65	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C2 : Repair depressions or ruts in the crown or slope.	38.712382 ° -121.636417 °	38.712382 ° -121.636417 °	32 Y
DWR ID: DWR_RD1600_02_s_2012_32										
10	1.74	2.01	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	38.710763 ° -121.637147 °	38.707116 ° -121.638722 °	14 Y
DWR ID: DWR_RD1600_02_s_2012_14										
11	2.02	2.02	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C2 : Repair depressions or ruts in the crown or slope.	38.707403 ° -121.638568 °	38.707403 ° -121.638568 °	7 Y
DWR ID: DWR_RD1600_02_s_2013_7										
12	2.12	2.23	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site. Inspector Comments: This is wave wash damage caused by last high water.	38.705614 ° -121.639357 °	38.704052 ° -121.640016 °	15 Y
DWR ID: DWR_RD1600_02_s_2012_15										

**\* Location**

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A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

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

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.22	11/13/2013 11/13/2013	John Williamson

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
13	3.69	3.69	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:16308 EP_NO: 10944 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: Need to install gasoline markers on levee. FIELD_STRUCT_DESC: 8.625-inch steel gas line through levee 2.0 feet below crown (Permit No. 10944, 1976). FS Date: 6/21/2013	38.683971 ° -121.644522 °	38.683971 ° -121.644522 °	3 Y
DWR ID: DWR_RD1600_02_f_2013_3										
14	3.69	3.69	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:15299 EP_NO: 10944 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: Need to install gasoline markers on levee. FIELD_STRUCT_DESC: 8.625-inch steel gas line through levee 2.0 feet below crown (Permit No. 10944, 1976). FS Date: 6/21/2013	38.683971 ° -121.644522 °	38.683971 ° -121.644522 °	4
DWR ID: DWR_RD1600_02_f_2013_4										
15	3.69	4.18	Earthen Levee	Vegetation	LS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.683964 ° -121.644533 °	38.677023 ° -121.643386 °	9 Y
DWR ID: DWR_RD1600_02_f_2013_9										
16	3.69	4.18	Earthen Levee	Vegetation	WS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.683962 ° -121.644531 °	38.677022 ° -121.643385 °	10 Y
DWR ID: DWR_RD1600_02_f_2013_10										

**\* Location**

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CR : Crown

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**+ Issue Type**

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.22	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	1
Start Levee Mile	0.16
End Levee Mile	3.69
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Tall grasses block the visibility. Fall 2013

johngw\_f\_20131114\_344.JPG



Levee Mile Report Line	2
Start Levee Mile	0.38
End Levee Mile	3.69
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Tall grasses block visibility. Fall 2013

johngw\_f\_20131114\_345.JPG



Levee Mile Report Line	5
Start Levee Mile	0.68
End Levee Mile	0.77
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

This area is soft and needs to have AB added to make an all weather surface.

johngw\_f\_20131021\_746.jpg



**\* Location**

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CR : Crown

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**+ Issue Type**

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.22	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	6
Start Levee Mile	0.85
End Levee Mile	4.08
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
The crown roadway needs to be free of weeds. Photo taken spring 2012.	
johngw_f_20131021_752.jpg	



Levee Mile Report Line	6
Start Levee Mile	0.85
End Levee Mile	4.08
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
The crown of the levee needs to be weed free. Fall 2012	
johngw_f_20131021_753.jpg	



Levee Mile Report Line	7
Start Levee Mile	1.13
End Levee Mile	1.13
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Ruts in the levee crown Spring 2013	
johngw_f_20131021_743.JPG	

**\* Location**

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WS : Water Side  
CR : Crown

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

**+ Issue Type**

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

**Levee Inspection Report By Mile - Fall 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.22	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	8
Start Levee Mile	1.51
End Levee Mile	1.51
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Ruts in the levee crown. Spring 2013	
johngw_f_20131021_744.JPG	



Levee Mile Report Line	9
Start Levee Mile	1.65
End Levee Mile	1.65
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
The crown has ruts deeper then six inches. Fall 2012	
johngw_f_20131021_755.jpg	



Levee Mile Report Line	9
Start Levee Mile	1.65
End Levee Mile	1.65
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Tire ruts are deeper than 6 inches on the crown. Fall 2013	
johngw_f_20131114_346.JPG	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.22	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	10
Start Levee Mile	1.74
End Levee Mile	2.01
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Wave wash damage along the slope the cut is 1'-2'.

johngw\_f\_20131021\_747.jpg



Levee Mile Report Line	10
Start Levee Mile	1.74
End Levee Mile	2.01
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

A closer view of the wave wash damage along the bypass.

johngw\_f\_20131021\_748.jpg



Levee Mile Report Line	11
Start Levee Mile	2.02
End Levee Mile	2.02
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Ruts in the levee crown. Spring 2013

johngw\_f\_20131021\_745.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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.22	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	11
Start Levee Mile	2.02
End Levee Mile	2.02
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Tire ruts are deeper than 6 inches on the crown. Fall 2013	
johngw_f_20131114_347.JPG	



Levee Mile Report Line	12
Start Levee Mile	2.12
End Levee Mile	2.23
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
This is wave wash damage along the toe of the levee looking downstream.	
johngw_f_20131021_749.jpg	



Levee Mile Report Line	12
Start Levee Mile	2.12
End Levee Mile	2.23
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking upstream a deeper cut of 2'-3' damage.	
johngw_f_20131021_750.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 2013**

**Reclamation District No. 1600 Mull**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.22	11/13/2013 11/13/2013	John Williamson

Levee Mile Report Line	13
Start Levee Mile	3.69
End Levee Mile	3.69
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study
Carsonite gasoline marker visible approximately 1,000-feet east of levee crown.	
UCIP_9050.jpg	



Levee Mile Report Line	15
Start Levee Mile	3.69
End Levee Mile	4.18
Location	Land Side
Category	Earthen Levee
Item	Vegetation
The goats have been through here. No unwanted vegetation on the levee. Fall 2013	
johngw_f_20131114_348.JPG	



Levee Mile Report Line	16
Start Levee Mile	3.69
End Levee Mile	4.18
Location	Water Side
Category	Earthen Levee
Item	Vegetation
There is no unwanted vegetation on the levee due to the goats. Fall 2013	
johngw_f_20131114_349.JPG	



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