

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2014 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)				

** 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

Spring 2014 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)				
Date of Inspection	04/18/2014 - 04/18/2014			
DWR Inspector	John Williamson			
Accompanied By	Kent Lang RD1600			
	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 - Spring 2014

Reclamation District No. 1600 Mull

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River		Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start		Rating **	A	Issue No.	32
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD1600_01_s_2013_32				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	33
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD1600_01_s_2013_33				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	34
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD1600_01_s_2013_34				
Action/Comments					

No Photos

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	0.01	Rating **	C	Issue No.	3
LM End	0.09	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.675242 °	38.676356 °
				-121.630492 °	-121.631157 °
DWR ID	DWR_RD1600_01_s_2012_3				
Action/Comments					
Fence Inspector Comments: Chain link completely blocks access to water's edge. Fence has been removed.					

No Photos

LM Start	0.06	Rating **	M	Issue No.	1
LM End	0.06	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.675998 °	38.675998 °
				-121.630732 °	-121.630732 °
DWR ID	DWR_RD1600_01_s_2012_1				
Action/Comments					
Building Inspector Comments: This is the home and pumping plant for RD 2035.					

Photo 1 of 1 : johngw_s_20140414_519.jpg



The caretakers home for the operator of the pumping plant (RD 2035).
Fall 2013

LM Start	0.10	Rating **	M	Issue No.	623
LM End	6.59	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.676472 °	38.758994 °
				-121.631226 °	-121.594094 °
DWR ID	DWR_RD1600_01_s_2014_623				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : johngw_s_20140421_813.jpg



Tall grasses partially blocks visibility. Spring 2014

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	0.10	Rating **	M	Issue No.	622
LM End	6.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.676472 °	38.758996 °
				-121.631226 °	-121.594092 °
DWR ID	DWR_RD1600_01_s_2014_622				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : johngw_s_20140421_814.jpg



Tall grasses partially blocks visibility. Spring 2014

LM Start	0.10	Rating **	M	Issue No.	129
LM End	0.10	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.676467 °	38.676467 °
				-121.631217 °	-121.631217 °
DWR ID	DWR_RD1600_01_f_2013_129				
Action/Comments					
Building Inspector Comments: This is a well pump house. It is potable water for the house and pumping plant.					

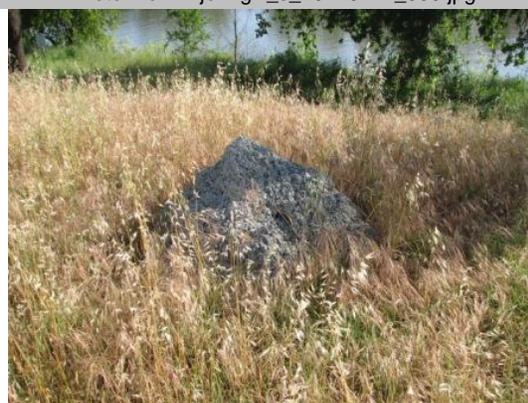
Photo 1 of 1 : johngw_s_20140414_568.jpg



The small building is a pump house for the well. It services the house with water. Fall 2013

LM Start	0.10	Rating **	M	Issue No.	29
LM End	0.10	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.676480 °	38.676480 °
				-121.631220 °	-121.631220 °
DWR ID	DWR_RD1600_01_s_2012_29				
Action/Comments					
Debris Inspector Comments: Pile of concrete.					

Photo 1 of 1 : johngw_s_20140414_559.jpg



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

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	0.10	Rating **	A/W	Issue No.	49
LM End	0.24	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.676480 °	38.678140 °
				-121.631220 °	-121.632330 °
DWR ID	DWR_RD1600_01_s_2012_49				
Action/Comments					
Environmental Requirements.					

Photo 1 of 2 : johngw_s_20140414_566.jpg



Revegetation site. Photo taken spring 2012.

LM Start	0.10	Rating **	A/W	Issue No.	49 (cont)
LM End	0.24	Issue Type +	Ob	Location *	WS

Photo 2 of 2 : johngw_s_20140414_567.jpg



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

LM Start	0.14	Rating **	M	Issue No.	613
LM End	0.14	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.676802 °	38.676802 °
				-121.631442 °	-121.631442 °
DWR ID	DWR_RD1600_01_s_2014_613				
Action/Comments					
Inspector Comments: FS_ID:15087					

Photo 1 of 1 : UCIP_1209.jpg



Line visible on JP off LS toe. Likely this is the source of crossing.

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	0.22	Rating **	M	Issue No.	132
LM End	0.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.677861 °	38.678780 °	
			-121.632178 °	-121.632677 °	
DWR ID	DWR_RD1600_01_f_2013_132				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 2 : johngw_s_20140414_569.jpg



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

LM Start	0.22	Rating **	M	Issue No.	132 (cont)
LM End	0.29	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : johngw_s_20140421_815.jpg



The goats did a good job of knocking the Arundo down. The Arundo has begun to spread and may need chemical control. Spring 2014

LM Start	0.53	Rating **	M	Issue No.	133
LM End	0.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.682140 °	38.682140 °	
			-121.634083 °	-121.634083 °	
DWR ID	DWR_RD1600_01_f_2013_133				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : johngw_s_20140414_570.jpg



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

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	0.57	Rating **	M	Issue No.	6
LM End	0.57	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.682707 °	38.684106 °
				-121.633830 °	-121.634219 °
DWR ID					
Action/Comments					
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. 2013: No observed changes. [2013 Site ID: SAC_71-3_R]					

Photo 1 of 1 : USACE2013A_SAC_71-3_R_2.jpg



USACE 2013 Photo #1

LM Start	0.79	Rating **	A/W	Issue No.	624
LM End	0.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.685713 °	38.685713 °
				-121.634985 °	-121.634985 °
DWR ID	DWR_RD1600_01_s_2014_624				
Action/Comments					
Trees / Woody Vegetation					

Photo 1 of 1 : johngw_s_20140421_816.jpg



The tree is dying and needs to be monitored so there is no threat to the levee. Spring 2014

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	0.84	Rating **	A/W	Issue No.	625
LM End	0.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.686515 °	38.686515 °
				-121.635134 °	-121.635134 °
DWR ID	DWR_RD1600_01_s_2014_625				
Action/Comments					
Trees / Woody Vegetation					

Photo 1 of 1 : johngw_s_20140421_817.jpg



The tree is dying and needs to be monitored so there is no threat to the levee. Spring 2014

LM Start	0.95	Rating **	M	Issue No.	614
LM End	0.95	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.688030 °	38.688030 °
				-121.635367 °	-121.635367 °
DWR ID	DWR_RD1600_01_s_2014_614				
Action/Comments					
Inspector Comments: FS_ID:15285 EP_NO: 6100 Repair Type: Crossing Status: 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					

Photo 1 of 1 : UCIP_1256.jpg



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

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River		Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	0.98	Rating **	M	Issue No.	134
LM End	0.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.688454 °	38.688454 °	
			-121.635528 °	-121.635528 °	
DWR ID	DWR_RD1600_01_f_2013_134				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : johngw_s_20140414_571.jpg



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

LM Start	1.02	Rating **	A/W	Issue No.	22
LM End	1.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.689078 °	38.690267 °	
			-121.635605 °	-121.635650 °	
DWR ID	DWR_RD1600_01_s_2012_22				
Action/Comments					
Environmental Requirements.					

Photo 1 of 2 : johngw_s_20140414_551.jpg



Revegetation site. Photo taken spring 2012.

LM Start	1.02	Rating **	A/W	Issue No.	22 (cont)
LM End	1.11	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : johngw_s_20140414_552.jpg



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

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River		Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	1.11	Rating **	A/W	Issue No.	626
LM End	1.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.690323 °	38.690323 °
				-121.635666 °	-121.635666 °
DWR ID	DWR_RD1600_01_s_2014_626				
Action/Comments					
Trees / Woody Vegetation					

Photo 1 of 1 : johngw_s_20140421_818.jpg



Two trees at the waterside berm that may pose a threat to the levee. Spring 2014

LM Start	1.40	Rating **	M	Issue No.	4
LM End	1.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.694395 °	38.694395 °
				-121.634376 °	-121.634376 °
DWR ID	DWR_RD1600_01_f_2012_4				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Damage looks like caused by vehicles.					

Photo 1 of 2 : johngw_s_20140414_522.jpg



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

LM Start	1.40	Rating **	M	Issue No.	4 (cont)
LM End	1.40	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : johngw_s_20140414_523.jpg



Erosion from vehicles on levee slope. Spring 2013

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River		Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	1.42	Rating **	A/W	Issue No.	5
LM End	1.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.694589 °	38.694589 °	
			-121.634286 °	-121.634286 °	
DWR ID	DWR_RD1600_01_f_2012_5				
Action/Comments					
Environmental Requirements.					

Photo 1 of 2 : johngw_s_20140414_524.jpg



Revegetation site. Fall 2012.

LM Start	1.42	Rating **	A/W	Issue No.	5 (cont)
LM End	1.42	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : johngw_s_20140414_525.jpg



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

LM Start	1.58	Rating **	M	Issue No.	7
LM End	1.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.696748 °	38.696748 °	
			-121.633201 °	-121.633201 °	
DWR ID	DWR_RD1600_01_f_2012_7				
Action/Comments					
Remove the wild growth other than native grasses from the levee					

Photo 1 of 2 : johngw_s_20140414_529.jpg



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

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	1.58	Rating **	M	Issue No.	7 (cont)
LM End	1.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.696748 °	38.696748 °
				-121.633201 °	-121.633201 °
DWR ID	DWR_RD1600_01_f_2012_7				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 2 of 2 : johngw_s_20140414_530.jpg



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

LM Start	1.73	Rating **	A/W	Issue No.	31
LM End	1.73	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.698613 °	38.698613 °
				-121.631710 °	-121.631710 °
DWR ID	DWR_RD1600_01_s_2012_31				
Action/Comments					
Environmental Requirements.					

Photo 1 of 2 : johngw_s_20140414_561.jpg



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

LM Start	1.73	Rating **	A/W	Issue No.	31 (cont)
LM End	1.73	Issue Type +	En	Location *	WS

Photo 2 of 2 : johngw_s_20140414_562.jpg



A photo of a Elderberry bush in the area.

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

Levee Inspection Report By Mile - Spring 2014

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Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River		Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	1.76	Rating **	M	Issue No.	137
LM End	1.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		38.699130 °	38.699130 °	
			-121.631300 °	-121.631300 °	
DWR ID	DWR_RD1600_01_f_2013_137				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

Photo 1 of 2 : johngw_s_20140414_574.jpg



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

LM Start	1.76	Rating **	M	Issue No.	137 (cont)
LM End	1.76	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : johngw_s_20140414_575.jpg



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

LM Start	1.94	Rating **	C	Issue No.	138
LM End	1.94	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.700862 °	38.700862 °	
			-121.629183 °	-121.629183 °	
DWR ID	DWR_RD1600_01_f_2013_138				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

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

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

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	2.02	Rating **	M	Issue No.	17
LM End	2.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.701590 °	38.701590 °
				-121.627991 °	-121.627991 °
DWR ID	DWR_RD1600_01_f_2012_17				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : johngw_s_20140414_545.jpg



Vehicle and foot traffic has caused erosion. Fall 2012

LM Start	2.08	Rating **	C	Issue No.	24
LM End	2.08	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.702121 °	38.702121 °
				-121.627123 °	-121.627123 °
DWR ID	DWR_RD1600_01_f_2012_24				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

No Photos

LM Start	2.36	Rating **	A/W	Issue No.	35
LM End	2.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.704592 °	38.705152 °
				-121.623067 °	-121.622187 °
DWR ID	DWR_RD1600_01_s_2012_35				
Action/Comments					
Environmental Requirements.					

Photo 1 of 2 : johngw_s_20140414_563.jpg



Revegetation site, photo taken spring 2012.

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River		Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	2.36	Rating **	A/W	Issue No.	35 (cont)
LM End	2.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.704592 °	38.705152 °	
			-121.623067 °	-121.622187 °	
DWR ID	DWR_RD1600_01_s_2012_35				
Action/Comments					
Environmental Requirements.					

Photo 2 of 2 : johngw_s_20140414_564.jpg



The revegetation site extends almost to the hinge point.

LM Start	2.42	Rating **	M	Issue No.	143
LM End	2.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.705152 °	38.705152 °	
			-121.622190 °	-121.622190 °	
DWR ID	DWR_RD1600_01_f_2013_143				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : johngw_s_20140414_583.jpg



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

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	2.83	Rating **	M	Issue No.	615
LM End	2.83	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.709350 °	38.709350 °
				-121.616912 °	-121.616912 °
DWR ID	DWR_RD1600_01_s_2014_615				
Action/Comments					
Inspector Comments: FS_ID:15108 EP_NO: N/A Repair Type: Crossing Status: 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					

Photo 1 of 1 : UCIP_1212.jpg



Debris buildup at metal platform waterline.

LM Start	2.83	Rating **	M	Issue No.	135
LM End	2.83	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.709381 °	38.709381 °
				-121.616869 °	-121.616869 °
DWR ID	DWR_RD1600_01_s_2014_135				
Action/Comments					
Debris					

Photo 1 of 1 : johngw_s_20140421_819.jpg



Concrete debris is on the waterside berm. Spring 2014

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River		Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	2.89	Rating **	C	Issue No.	139
LM End	2.89	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.709898 °	38.709898 °	
			-121.616180 °	-121.616180 °	
DWR ID	DWR_RD1600_01_f_2013_139				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

LM Start	2.94	Rating **	M	Issue No.	616
LM End	2.94	Issue Type +	En	Location *	CR
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.710497 °	38.710497 °	
			-121.615381 °	-121.615381 °	
DWR ID	DWR_RD1600_01_s_2014_616				
Action/Comments					
Inspector Comments: FS_ID:15110 EP_NO: N/A Repair Type: Crossing Status: 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					

Photo 1 of 1 : UCIP_1215.jpg



Pipe visible on LS slope.

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River		Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	2.98	Rating **	M	Issue No.	136
LM End	3.59	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.710795 °	38.717722 °	
			-121.614986 °	-121.608012 °	
DWR ID	DWR_RD1600_01_s_2014_136				
Action/Comments					
Keep the crown roadway free of vegetation.					

Photo 1 of 1 : johngw_s_20140421_820.jpg



The vegetation on the crown needs to be controlled. Spring 2014

LM Start	3.06	Rating **	A/W	Issue No.	37
LM End	3.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.711597 °	38.711597 °	
			-121.613890 °	-121.613890 °	
DWR ID	DWR_RD1600_01_s_2012_37				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : johngw_s_20140414_565.jpg



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

LM Start	3.06	Rating **	M	Issue No.	140
LM End	3.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.711655 °	38.711655 °	
			-121.613871 °	-121.613871 °	
DWR ID	DWR_RD1600_01_f_2013_140				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : johngw_s_20140414_579.jpg



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

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River		Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	3.55	Rating **	M	Issue No.	8
LM End	3.55	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.717770 °	38.721351 °
				-121.607423 °	-121.606414 °
DWR ID					
Action/Comments					
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. 2013: Minor new erosion. [2013 Site ID: SAC_74-4_R]					

Photo 1 of 1 : USACE2013A_SAC_74-4_R_3.jpg



USACE 2013 Photo #1

LM Start	3.58	Rating **	M	Issue No.	627
LM End	3.58	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.717717 °	38.717717 °
				-121.608015 °	-121.608015 °
DWR ID	DWR_RD1600_01_s_2014_627				
Action/Comments					
Debris					

Photo 1 of 1 : johngw_s_20140421_821.jpg



Metal pipe and wood debris is on the waterside berm. Spring 2014

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River		Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	3.62	Rating **	M	Issue No.	628
LM End	3.62	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.718080 °	38.718080 °	
			-121.607815 °	-121.607815 °	
DWR ID	DWR_RD1600_01_s_2014_628				
Action/Comments					
Debris					

Photo 1 of 1 : johngw_s_20140421_822.jpg



Concrete debris is on the waterside berm. Spring 2014

LM Start	3.70	Rating **	U	Issue No.	629
LM End	3.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.719229 °	38.719229 °	
			-121.607312 °	-121.607312 °	
DWR ID	DWR_RD1600_01_s_2014_629				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : johngw_s_20140421_823.jpg



A stump visibly decomposing and may cause a risk to the levee. Spring 2014

LM Start	3.79	Rating **	M	Issue No.	2
LM End	3.79	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.720417 °	38.720417 °	
			-121.606962 °	-121.606962 °	
DWR ID	DWR_RD1600_01_s_2013_2				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Trees have fallen over and created bank erosion.					

Photo 1 of 1 : johngw_s_20140414_520.jpg



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

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	4.02	Rating **	C	Issue No.	9
LM End	4.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.723792 °	38.723792 °
				-121.606622 °	-121.606622 °
DWR ID	DWR_RD1600_01_s_2013_9				
Action/Comments					
Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Tree has fallen on levee slope.					

No Photos

LM Start	4.21	Rating **	M	Issue No.	10
LM End	4.21	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.728684 °	38.736110 °
				-121.605844 °	-121.604153 °
DWR ID					
Action/Comments					
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 - Site has become overgrown with vegetation, making it hard to observe. 2013: No observed changes. [2013 Site ID: SAC_75-3_R]					

Photo 1 of 1 : USACE2013A_SAC_75-3_R_11.jpg



USACE 2013 Photo #1

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River		Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	4.32	Rating **	M	Issue No.	630
LM End	4.94	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.728028 °	38.736834 °	
			-121.606577 °	-121.604393 °	
DWR ID	DWR_RD1600_01_s_2014_630				
Action/Comments					
Keep the crown roadway free of vegetation.					

Photo 1 of 1 : johngw_s_20140421_824.jpg



The vegetation needs to be controlled on the crown. Spring 2014

LM Start	4.53	Rating **	M	Issue No.	617
LM End	4.53	Issue Type +	En	Location *	CR
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.731143 °	38.731143 °	
			-121.605825 °	-121.605825 °	
DWR ID	DWR_RD1600_01_s_2014_617				
Action/Comments					
Inspector Comments: FS_ID:15125 EP_NO: N/A Repair Type: Crossing Status: 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					

Photo 1 of 1 : UCIP_1217.jpg



Slant pump on metal pier on WS berm.

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River		Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	4.80	Rating **	M	Issue No.	141
LM End	4.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.734840 °	38.734840 °	
			-121.605026 °	-121.605026 °	
DWR ID	DWR_RD1600_01_f_2013_141				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : johngw_s_20140414_580.jpg



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

LM Start	4.85	Rating **	N	Issue No.	14
LM End	4.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.735608 °	38.735608 °	
			-121.604794 °	-121.604794 °	
DWR ID	DWR_RD1600_01_s_2013_14				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : johngw_s_20140414_544.jpg



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

LM Start	4.89	Rating **	U	Issue No.	25
LM End	4.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.736250 °	38.736250 °	
			-121.604605 °	-121.604605 °	
DWR ID	DWR_RD1600_01_f_2012_25				
Action/Comments					
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.					

Photo 1 of 2 : johngw_s_20140414_555.jpg



The concrete collection box across the road. Fall 2012

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	4.89	Rating **	U	Issue No.	25 (cont)
LM End	4.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.736250 °	38.736250 °
				-121.604605 °	-121.604605 °
DWR ID	DWR_RD1600_01_f_2012_25				
Action/Comments					
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.					

Photo 2 of 2 : johngw_s_20140414_556.jpg



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

LM Start	4.90	Rating **	M	Issue No.	618
LM End	4.90	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.736299 °	38.736299 °
				-121.604582 °	-121.604582 °
DWR ID	DWR_RD1600_01_s_2014_618				
Action/Comments					
Inspector Comments: FS_ID:15130 EP_NO: N/A Repair Type: Crossing Status: 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					

Photo 1 of 1 : UCIP_1224.jpg



6'X14' concrete distribution box off LS toe.

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River		Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	5.43	Rating **	A/W	Issue No.	13
LM End	5.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.743632 °	38.743632 °	
			-121.601173 °	-121.601173 °	
DWR ID	DWR_RD1600_01_s_2012_13				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : johngw_s_20140414_543.jpg



A thick stand of elderberries on the landside. Fall 2012

LM Start	5.48	Rating **	M	Issue No.	19
LM End	5.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.744118 °	38.748210 °	
			-121.601104 °	-121.598025 °	
DWR ID	DWR_RD1600_01_s_2012_19				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Levee district had us add this because of the loss of the berm over years of water flows. Erosion is at the waters edge. Walnut trees are close to edge now.					

No Photos

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River		Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	6.22	Rating **	M	Issue No.	619
LM End	6.22	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.753820 °	38.753820 °
				-121.595012 °	-121.595012 °
DWR ID	DWR_RD1600_01_s_2014_619				
Action/Comments					
Inspector Comments: FS_ID:15207 EP_NO: N/A Repair Type: Crossing Status: UCIP Comments: Pipe is abandoned and open on both ends. It should be abandoned properly. FIELD_STRUCT_DESC: 18-inch pipe through levee 4.5 feet below crown. Walkway from berm to pump on pile structure in stream. Overhead power line crosses levee, service pole on the waterward slope. 6'X6' Concrete distribution box at the toe of the landward slope. Originally included in the 1955 O+M manual at RM 77. FS Date: 6/20/2013					

Photo 1 of 1 : UCIP_1246.jpg



6'X6' concrete distribution box on LS toe.

LM Start	6.23	Rating **	M	Issue No.	11
LM End	6.23	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.755246 °	38.756186 °
				-121.594206 °	-121.594024 °
DWR ID					
Action/Comments					
Inspector Comments: 2011 - Large vertical eroded face from a rotational failure just below pump. 2013: No observed changes. [2013 Site ID: SAC_77-0_R]					

Photo 1 of 1 : USACE2013A_SAC_77-0_R_1.jpg



USACE 2013 Photo #1

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	6.64	Rating **	M	Issue No.	631
LM End	6.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.759685 °	38.759685 °	
			-121.594109 °	-121.594109 °	
DWR ID	DWR_RD1600_01_s_2014_631				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : johngw_s_20140421_825.jpg



The tall brush and vegetation blocks visibility. Spring 2014

LM Start	6.98	Rating **	M	Issue No.	12
LM End	6.98	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	USACE Erosion Survey		38.764801 °	38.765219 °	
			-121.594926 °	-121.595049 °	
DWR ID					
Action/Comments					
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. 2013: No observed changes. [2013 Site ID: SAC_77-7_R]					

Photo 1 of 1 : USACE2013A_SAC_77-7_R_3.jpg



USACE 2013 Photo #1

LM Start	7.01	Rating **	M	Issue No.	30
LM End	7.01	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.764943 °	38.764943 °	
			-121.595504 °	-121.595504 °	
DWR ID	DWR_RD1600_01_s_2013_30				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : johngw_s_20140414_560.jpg



Erosion is into the berm area and needs to be monitored. Spring 2013

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	7.02	Rating **	M	Issue No.	27
LM End	7.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.764974 °	38.764974 °
				-121.595533 °	-121.595533 °
DWR ID	DWR_RD1600_01_s_2012_27				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : johngw_s_20140414_557.jpg



The erosion appears to be moving closer to the shoulder.

LM Start	7.13	Rating **	M	Issue No.	20
LM End	7.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.766505 °	38.766505 °
				-121.596214 °	-121.596214 °
DWR ID	DWR_RD1600_01_s_2012_20				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 2 : johngw_s_20140414_547.jpg



The erosion is eroding away at the berm area.

LM Start	7.13	Rating **	M	Issue No.	20 (cont)
LM End	7.13	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : johngw_s_20140414_548.jpg



This another view of the site.

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River		Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	7.27	Rating **	M	Issue No.	21
LM End	7.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.768409 °	38.768409 °
				-121.597213 °	-121.597213 °
DWR ID	DWR_RD1600_01_s_2012_21				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 2 : johngw_s_20140414_549.jpg



The bank is eroding away and has become very steep.

LM Start	7.27	Rating **	M	Issue No.	21 (cont)
LM End	7.27	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : johngw_s_20140414_550.jpg



The erosion is eroding away the berm area.

LM Start	7.60	Rating **	M	Issue No.	620
LM End	7.60	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.772560 °	38.772560 °
				-121.600153 °	-121.600153 °
DWR ID	DWR_RD1600_01_s_2014_620				
Action/Comments					
Inspector Comments: FS_ID:15264					

Photo 1 of 1 : UCIP_1250.jpg



Pipe on LS shoulder.

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River		Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	8.07	Rating **	M	Issue No.	621
LM End	8.07	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.777799 °	38.777799 °	
			-121.605763 °	-121.605763 °	
DWR ID	DWR_RD1600_01_s_2014_621				
Action/Comments					
Inspector Comments: FS_ID:16310 EP_NO: 7339 Repair Type: Crossing Status: 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					

Photo 1 of 1 : UCIP_1452.jpg



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

LM Start	8.14	Rating **	M	Issue No.	633
LM End	10.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.778327 °	38.765489 °	
			-121.606661 °	-121.634944 °	
DWR ID	DWR_RD1600_01_s_2014_633				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : johngw_s_20140421_826.jpg



Tall grasses partially blocks visibility. Spring 2014

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway			Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River			Right	10.51	04/18/2014 04/18/2014	John Williamson

LM Start	8.14	Rating **	M	Issue No.	632
LM End	10.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.778327 °	38.765488 °	
			-121.606661 °	-121.634943 °	
DWR ID	DWR_RD1600_01_s_2014_632				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : johngw_s_20140421_827.jpg



Tall grasses partially blocks visibility. Spring 2014

LM Start	8.93	Rating **	M	Issue No.	634
LM End	8.93	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.782002 °	38.782002 °	
			-121.620403 °	-121.620403 °	
DWR ID	DWR_RD1600_01_s_2014_634				
Action/Comments					
Pipe					

Photo 1 of 1 : johngw_s_20140421_828.jpg



Irrigation pipe is being stored on the landside. Spring 2014

LM Start	9.41	Rating **	C	Issue No.	142
LM End	9.52	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.779285 °	38.777562 °	
			-121.626792 °	-121.627669 °	
DWR ID	DWR_RD1600_01_f_2013_142				
Action/Comments					
Pipe					

No Photos

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

** Rating	
A : Acceptable	N : Not Inspected/Rated
M : Minimally Acceptable	C : Corrected
U : Unacceptable	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 - Spring 2014

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.51	04/18/2014 04/18/2014	John Williamson

<p>* Location LS : Land Side WS : Water Side CR : Crown</p>	<p>** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain</p>	<p>+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement</p>
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**Flood Control Project Maintenance
Levee Inspections
Unit Cover Sheet
Spring 2014 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)				
Date of Inspection	04/18/2014 - 04/18/2014			
DWR Inspector	John Williamson			
Accompanied By	Kent Lang 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 - Spring 2014

Reclamation District No. 1600 Mull

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass		Left	4.22	04/18/2014 04/18/2014	John Williamson

LM Start	0.00	Rating **	A	Issue No.	152
LM End	0.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.736018 °	38.724343 °	
			-121.633660 °	-121.633418 °	
DWR ID	DWR_RD1600_02_s_2014_152				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : johngw_s_20140421_829.jpg



The vegetation complies with standards. Spring 2014

LM Start	0.00	Rating **	A	Issue No.	151
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.736017 °	38.724343 °	
			-121.633661 °	-121.633418 °	
DWR ID	DWR_RD1600_02_s_2014_151				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : johngw_s_20140421_830.jpg



The vegetation c omplies with standards. Spring 2014

LM Start	0.68	Rating **	A/W	Issue No.	11
LM End	0.77	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		38.726252 °	38.724869 °	
			-121.633424 °	-121.633411 °	
DWR ID	DWR_RD1600_02_s_2012_11				
Action/Comments					
Add appropriate gravel or road base. Grade and compact.					

Photo 1 of 1 : johngw_s_20140414_693.jpg



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

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway			Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass			Left	4.22	04/18/2014 04/18/2014	John Williamson

LM Start	0.81	Rating **	M	Issue No.	5
LM End	2.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.724344 °	38.694531 °	
			-121.633418 °	-121.644119 °	
DWR ID	DWR_RD1600_02_s_2014_5				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : johngw_s_20140421_831.jpg



Tall grasses partially blocks visibility. Spring 2014

LM Start	0.81	Rating **	M	Issue No.	8
LM End	2.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.724344 °	38.694529 °	
			-121.633418 °	-121.644117 °	
DWR ID	DWR_RD1600_02_s_2014_8				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : johngw_s_20140421_832.jpg



Tall grasses partially blocks visibility. Spring 2014

LM Start	0.85	Rating **	M	Issue No.	31
LM End	4.08	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		38.723730 °	38.678393 °	
			-121.633372 °	-121.643858 °	
DWR ID	DWR_RD1600_02_s_2012_31				
Action/Comments					
Add appropriate gravel or road base. Grade and compact.					

Photo 1 of 2 : johngw_s_20140414_698.jpg



The crown roadway needs to be free of weeds. Photo taken spring 2012.

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.22	04/18/2014 04/18/2014	John Williamson

LM Start	0.85	Rating **	M	Issue No.	31 (cont)
LM End	4.08	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.723730 °	38.678393 °
				-121.633372 °	-121.643858 °
DWR ID	DWR_RD1600_02_s_2012_31				
Action/Comments					
Add appropriate gravel or road base. Grade and compact.					

Photo 2 of 2 : johngw_s_20140414_699.jpg



The crown of the levee needs to be weed free. Fall 2012

LM Start	0.89	Rating **	M	Issue No.	153
LM End	2.95	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.723194 °	38.694529 °
				-121.633441 °	-121.644116 °
DWR ID	DWR_RD1600_02_s_2014_153				
Action/Comments					
Keep the crown roadway free of vegetation.					

Photo 1 of 1 : johngw_s_20140421_833.jpg



The vegetation on the crown needs to be controlled. Spring 2014

LM Start	1.13	Rating **	M	Issue No.	2
LM End	1.13	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.719719 °	38.719719 °
				-121.633925 °	-121.633925 °
DWR ID	DWR_RD1600_02_s_2013_2				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

Photo 1 of 1 : johngw_s_20140414_687.jpg



Ruts in the levee crown Spring 2013

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

** Rating	
A : Acceptable	N : Not Inspected/Rated
M : Minimally Acceptable	C : Corrected
U : Unacceptable	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 - Spring 2014

Reclamation District No. 1600 Mull

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass		Left	4.22	04/18/2014 04/18/2014	John Williamson

LM Start	1.51	Rating **	M	Issue No.	6
LM End	1.51	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		38.714343 °	38.714343 °	
			-121.635628 °	-121.635628 °	
DWR ID	DWR_RD1600_02_s_2013_6				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

Photo 1 of 2 : johngw_s_20140414_689.jpg



Ruts in the levee crown. Spring 2013

LM Start	1.51	Rating **	M	Issue No.	6 (cont)
LM End	1.51	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : johngw_s_20140421_834.jpg



Ruts in the all weather road need to be repaired. Spring 2014

LM Start	1.65	Rating **	M	Issue No.	32
LM End	1.65	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		38.712382 °	38.712382 °	
			-121.636417 °	-121.636417 °	
DWR ID	DWR_RD1600_02_s_2012_32				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

Photo 1 of 3 : johngw_s_20140414_700.jpg



The crown has ruts deeper then six inches. Fall 2012

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass		Left	4.22	04/18/2014 04/18/2014	John Williamson

LM Start	1.65	Rating **	M	Issue No.	32 (cont)
LM End	1.65	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		38.712382 °	38.712382 °	
			-121.636417 °	-121.636417 °	
DWR ID	DWR_RD1600_02_s_2012_32				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

Photo 2 of 3 : johngw_s_20140414_701.jpg



Tire ruts are deeper than 6 inches on the crown. Fall 2013

LM Start	1.65	Rating **	M	Issue No.	32 (cont)
LM End	1.65	Issue Type +	Ma	Location *	CR

Photo 3 of 3 : johngw_s_20140421_835.jpg



Ruts in the all weather road needs to be repaired. Spring 2014

LM Start	1.74	Rating **	M	Issue No.	14
LM End	2.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.710763 °	38.707116 °	
			-121.637147 °	-121.638722 °	
DWR ID	DWR_RD1600_02_s_2012_14				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 2 : johngw_s_20140414_694.jpg



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

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass		Left	4.22	04/18/2014 04/18/2014	John Williamson

LM Start	1.74	Rating **	M	Issue No.	14 (cont)
LM End	2.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.710763 °	38.707116 °	
			-121.637147 °	-121.638722 °	
DWR ID	DWR_RD1600_02_s_2012_14				
Action/Comments					
Note and monitor erosion site.					

Photo 2 of 2 : johngw_s_20140414_695.jpg



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

LM Start	2.02	Rating **	M	Issue No.	7
LM End	2.02	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		38.707403 °	38.707403 °	
			-121.638568 °	-121.638568 °	
DWR ID	DWR_RD1600_02_s_2013_7				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

Photo 1 of 3 : johngw_s_20140414_690.jpg



Ruts in the levee crown. Spring 2013

LM Start	2.02	Rating **	M	Issue No.	7 (cont)
LM End	2.02	Issue Type +	Ma	Location *	CR

Photo 2 of 3 : johngw_s_20140414_691.jpg



Tire ruts are deeper than 6 inches on the crown. Fall 2013

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.22	04/18/2014 04/18/2014	John Williamson

LM Start	2.02	Rating **	M	Issue No.	7 (cont)
LM End	2.02	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.707403 °	38.707403 °
				-121.638568 °	-121.638568 °
DWR ID	DWR_RD1600_02_s_2013_7				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

Photo 3 of 3 : johngw_s_20140421_836.jpg



Ruts in the all weather road needs to be repaired. Spring 2014

LM Start	2.12	Rating **	M	Issue No.	15
LM End	2.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.705614 °	38.704052 °
				-121.639357 °	-121.640016 °
DWR ID	DWR_RD1600_02_s_2012_15				
Action/Comments					
Note and monitor erosion site. Inspector Comments: This is wave wash damage caused by last high water.					

Photo 1 of 2 : johngw_s_20140414_696.jpg



This is wave wash damage along the toe of the levee looking downstream.

LM Start	2.12	Rating **	M	Issue No.	15 (cont)
LM End	2.23	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : johngw_s_20140414_697.jpg



Looking upstream a deeper cut of 2'-3' damage.

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

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.22	04/18/2014 04/18/2014	John Williamson

LM Start	3.69	Rating **	M	Issue No.	150
LM End	3.69	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.683971 °	38.683971 °
				-121.644522 °	-121.644522 °
DWR ID	DWR_RD1600_02_s_2014_150				
Action/Comments					
Inspector Comments: FS_ID:16308					

Photo 1 of 1 : UCIP_1450.jpg



Carsonite gasoline marker visible approximately 1,000-feet east of levee crown.

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