

**Flood Control Project Maintenance
Levee Inspections**

Fall 2014 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

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	2.53		2.53	4.70%	0.09	0.01		
Trim / Thin Trees	0.02	0.01	0.06	0.11%				
Encroachments	0.07		0.07	0.13%	5.59			
Animal Control	0.03		0.03	0.06%				
Underseepage Relief Wells		0.01	0.04	0.07%				
<i>Supplemental</i>								
USACE Erosion Survey	0.10		0.10	0.19%				
DWR UCIP Field Study					0.41	0.06		
<i>LMA Totals:</i>	2.75	0.02	2.83	5.25% *	6.09	0.07	0.00	0.00

Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.83		0.83	2.50%	0.09	0.01		
Trim / Thin Trees	0.02	0.01	0.06	0.18%				
Encroachments	0.06		0.06	0.18%	5.59			
Animal Control	0.03		0.03	0.09%				
<i>Supplemental</i>								
USACE Erosion Survey	0.10		0.10	0.30%				
DWR UCIP Field Study					0.41	0.06		
<i>Unit Totals:</i>	1.04	0.01	1.08	3.26% *	6.09	0.07	0.00	0.00

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	1.70		1.70	8.20%				
Encroachments	0.01		0.01	0.05%				
Underseepage Relief Wells		0.01	0.04	0.19%				
<i>Unit Totals:</i>	1.71	0.01	1.75	8.45% *	0.00	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2014 Levee Inspection Results

Reclamation District No. 1500 Sutter Basin

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

** 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 2014 Levee Inspection Results

Reclamation District No. 1500 Sutter Basin

Waterway		Bank	Unit Miles	
Unit No. 01 Sacramento River		Left	33.15	
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	04/22/2014 - 04/23/2014		10/23/2014 - 10/23/2014	
DWR Inspector	John Williamson		Clay Thomas	
Accompanied By	Jack Bailey RD 1500		Jack Bailey RD 1500	

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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_RD1500_01_s_2013_9				
Action/Comments					
Inspector Comments: RD 1500 has their Levee Manual.					

No Photos

LM Start		Rating **	A	Issue No.	55
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_RD1500_01_s_2013_55				
Action/Comments					
Inspector Comments: RD 1500 maintains a stockpile of flood response material.					

No Photos

LM Start		Rating **	A	Issue No.	61
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_RD1500_01_s_2013_61				
Action/Comments					
Inspector Comments: RD 1500 is current with it's flood response plans and training.					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	0.00	Rating **	A	Issue No.	39
LM End	33.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		°	°	
			°	°	
DWR ID	DWR_RD1500_01_s_2012_39				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA_2014_RD1500_189_39_20141030_00153.jpg



Levee mile 26.84, vegetation on the land side levee slope. Fall 2014.

LM Start	0.04	Rating **	C	Issue No.	35
LM End	0.04	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.761055 °	38.761055 °	
			-121.675322 °	-121.675322 °	
DWR ID	DWR_RD1500_01_s_2012_35				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	0.07	Rating **	C	Issue No.	5
LM End	0.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.761071 °	38.761071 °	
			-121.675957 °	-121.675957 °	
DWR ID	DWR_RD1500_01_s_2012_5				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	0.10	Rating **	C	Issue No.	212
LM End	0.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.761090 °	38.761090 °
				-121.676346 °	-121.676346 °
DWR ID	DWR_RD1500_01_s_2012_212				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: There are burrow holes on the landside too. There are depressions on crown and appears to be part of the burrows.					

No Photos

LM Start	0.28	Rating **	C	Issue No.	1335
LM End	0.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.762869 °	38.762869 °
				-121.678750 °	-121.678750 °
DWR ID	DWR_RD1500_01_s_2014_1335				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	0.28	Rating **	C	Issue No.	1332
LM End	0.28	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.762868 °	38.762868 °
				-121.678744 °	-121.678744 °
DWR ID	DWR_RD1500_01_s_2014_1332				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	0.28	Rating **	C	Issue No.	67
LM End	0.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.762810 °	38.762810 °
				-121.678702 °	-121.678702 °
DWR ID	DWR_RD1500_01_s_2012_67				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	0.30	Rating **	C	Issue No.	68
LM End	0.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.763128 °	38.763128 °
				-121.678950 °	-121.678950 °
DWR ID	DWR_RD1500_01_s_2012_68				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	0.32	Rating **	M	Issue No.	53
LM End	0.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.763219 °	38.763219 °
				-121.679036 °	-121.679036 °
DWR ID	DWR_RD1500_01_f_2012_53				
Action/Comments					
Stairway					

Photo 1 of 1 : FA_2014_RD1500_189_53_20141014_00049.jpg



Steps carved into the levee slope at a pipe crossing. Photo fall 2012.

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	0.32	Rating **	M	Issue No.	13
LM End	0.32	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.763210 °	38.763210 °
				-121.679017 °	-121.679017 °
DWR ID	DWR_RD1500_01_f_2014_13				
Action/Comments					
Inspector Comments: FS_ID:28183 EP_NO: 1566A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - soil erosion around headwall on waterside.pump was removed.overhead powerline. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through levee, 5.0 feet below crown. Pump and switch panel on waterside berm. Service pole on waterward shoulder. Siphon breaker on landward slope. A 3-foot by 4-foot concrete distribution box at landward toe (App. No. 1566A White) O&M Manual Sac 128, March 1960. FS Date: 1/9/2014					

No Photos

LM Start	0.49	Rating **	M	Issue No.	1336
LM End	0.49	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.764497 °	38.764497 °
				-121.681925 °	-121.681925 °
DWR ID	DWR_RD1500_01_s_2014_1336				
Action/Comments					
Prunings					

Photo 1 of 1 : FA_2014_RD1500_189_1336_20141014_00094.jpg



Large stumps piled up at the toe of the levee. Spring 2014

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	0.53	Rating **	M	Issue No.	1337
LM End	1.36	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.764503 °	38.770175 °	
			-121.682482 °	-121.690209 °	
DWR ID	DWR_RD1500_01_s_2014_1337				
Action/Comments					
Keep the crown roadway free of vegetation.					

Photo 1 of 1 : FA_2014_RD1500_189_1337_20141014_00095.jpg



Control unwanted vegetation on the levee crown. Spring 2014

LM Start	0.57	Rating **	A/W	Issue No.	72
LM End	0.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.764462 °	38.764638 °	
			-121.683167 °	-121.687690 °	
DWR ID	DWR_RD1500_01_s_2012_72				
Action/Comments					
Environmental Requirements.					

Photo 1 of 2 : FA_2014_RD1500_189_72_20141014_00059.jpg



A view of the revegetation site.

LM Start	0.57	Rating **	A/W	Issue No.	72 (cont)
LM End	0.83	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2014_RD1500_189_72_20141014_00060.jpg



A revegetation site waterside toe, photo taken spring 2012.

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	0.64	Rating **	A/W	Issue No.	76
LM End	1.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.764305 °	38.766827 °
				-121.684396 °	-121.690884 °
DWR ID	DWR_RD1500_01_s_2013_76				
Action/Comments					
Repair slope instability. Inspector Comments: Seepage berm was damaged last fall in prep for the agricultural field and needs to be restored by the land owner. A field investigation report was made. The seepage berm is scheduled to be repaired before next flood season.					

Photo 1 of 2 : FA_2014_RD1500_189_76_20141014_00063.jpg



Damage to the seepage berm during the flood season needs to be repaired, Spring 2013

LM Start	0.64	Rating **	A/W	Issue No.	76 (cont)
LM End	1.06	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_RD1500_189_76_20141014_00064.jpg



The damage to the seepage berm has been repaired and needs to be monitored. Spring 2014

LM Start	1.31	Rating **	M	Issue No.	19
LM End	1.31	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.769698 °	38.769698 °
				-121.691023 °	-121.691023 °
DWR ID	DWR_RD1500_01_f_2014_19				
Action/Comments					
Inspector Comments: FS_ID:28905 EP_NO: 10080 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: - an electrical conduit for the pump1-3/4-inch galvanized iron waterline with tap exposed on landward slope 3.4 feet					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	1.31	Rating **	M	Issue No.	27
LM End	1.31	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.769697 °	38.769697 °
				-121.691024 °	-121.691024 °
DWR ID	DWR_RD1500_01_f_2014_27				
Action/Comments					
Inspector Comments: FS_ID:28903 EP_NO: 10080 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump removed from concrete pad and kept inside pump house (may be for storage purpose) on waterside. A 8-inch steel pipe inside 14-inch pipe. FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through levee, 5.2 feet below crown. Pump on river bank. Butterfly valve on waterward side. Concrete stairway on waterward slope. 1-3/4-inch galvanized iron waterline with tap exposed on landward slope 3.4 feet below crown. 4 foot by 5.1 foot concrete distribution box at landward toe. 1-1/4-inch conduit through levee, 2.0 feet below crown. (ABO No. 10080 - Yturralde) FS Date: 1/9/2014					

No Photos

LM Start	1.32	Rating **	M	Issue No.	1
LM End	1.32	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.770390 °	38.777282 °
				-121.690553 °	-121.685841 °
DWR ID	DWR_RD1500_01_f_2014_1				
Action/Comments					
Inspector Comments: 2006 - New erosion upstream, new bank failures near levee but still fairly wide berm in most places. 2008 - Large berm, questionable as to if it should remain in the inventory. 2010 - Minor new erosion, old cobble starting to fail. 2011 - Cobble continues to unravel and additional slumping. 2014 - Minor new erosion at bank mid point. 2013: Minor new erosion. [2013 Site ID: SAC_86-3_L]					

Photo 1 of 1 : FA_2014_RD1500_189_1_20141014_00001.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	1.34	Rating **	M	Issue No.	4
LM End	1.34	Issue Type +	En	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.770003 °	38.770003 °	
			-121.690607 °	-121.690607 °	
DWR ID	DWR_RD1500_01_s_2012_4				
Action/Comments					
Landscaping Inspector Comments: Retaining wall built into the levee.					

Photo 1 of 1 : FA_2014_RD1500_189_4_20141014_00004.jpg



Landscape with retaining wall that is in the USACE as-builts Fall 2013

LM Start	1.64	Rating **	M	Issue No.	40
LM End	1.64	Issue Type +	En	Location *	N/A
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.772862 °	38.772862 °	
			-121.686453 °	-121.686453 °	
DWR ID	DWR_RD1500_01_f_2014_40				
Action/Comments					
Inspector Comments: FS_ID:28204 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pump removed erosion around pump station. overhead electrical line. FIELD_STRUCT_DESC: 10-inch diameter steel irrigation pipeline through levee, 10.0 feet below crown. Pump and gate valve on bank. Service pole and switch panel on waterward shoulder. Pipe crosses irrigation ditch and discharges into steel distribution box on the field. FS Date: 1/9/2014					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	1.97	Rating **	M	Issue No.	41
LM End	1.97	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.777433 °	38.777433 °
				-121.685348 °	-121.685348 °
DWR ID	DWR_RD1500_01_f_2014_41				
Action/Comments					
Inspector Comments: FS_ID:28263 EP_NO: 16146 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pump removed overhead powerline pile structure abandoned levee slope erosion due to leaky siphon breaker on landside. FIELD_STRUCT_DESC: 12-inch diameter steel pipe through levee, 12.0 feet below crown. Pump mounted on river bank, butterfly valve on waterward side. Power pole with one anchor on waterside slope. Pump discharges into 5 foot by 5 foot concrete distribution box (damaged) across the irrigation ditch on the landside. (Cat. I Furlan) (App. No. 16146) O&M Manual Sac 128, March 1960. FS Date: 1/9/2014					

No Photos

LM Start	2.23	Rating **	C	Issue No.	1338
LM End	5.73	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.780892 °	38.803250 °
				-121.686905 °	-121.721698 °
DWR ID	DWR_RD1500_01_s_2014_1338				
Action/Comments					
Keep the crown roadway free of vegetation.					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	2.34	Rating **	M	Issue No.	2
LM End	2.34	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.781962 °	38.784936 °
				-121.688033 °	-121.690033 °
DWR ID	DWR_RD1500_01_f_2014_2				
Action/Comments					
Inspector Comments: 2010 - The upstream end of the repair site at 87.0. Repair did not extend far enough upstream. 2011 - New erosion pockets. 2012 - Minor new erosion at toe. 2013: Minor new erosion. [2013 Site ID: SAC_87-1_L]					

Photo 1 of 1 : FA_2014_RD1500_189_2_20141014_00002.jpg



USACE 2013 Photo #1

LM Start	2.40	Rating **	M	Issue No.	43
LM End	2.40	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.783184 °	38.783184 °
				-121.688136 °	-121.688136 °
DWR ID	DWR_RD1500_01_f_2014_43				
Action/Comments					
Inspector Comments: FS_ID:28264 EP_NO: 10029 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pump removed butlet plugged looks abandoned. Found abandoned pipe parts on levee slope and berm. overhead powerline FIELD_STRUCT_DESC: Abandoned 12-inch steel irrigation pipe through levee, 11.0-feet below crown. Two metal cutoff walls installed. Pump on bank during irrigation season. Gate valve at waterward toe. Discharges into 2.5x2.5 foot concrete distribution box on landward side of irrigation ditch. (ABO No. 10029 - Anderson). O&M Manual Sac 128, March 1960. FS Date: 1/9/2014					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	2.57	Rating **	M	Issue No.	963
LM End	3.83	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.785351 °	38.797174 °	
			-121.689075 °	-121.693045 °	
DWR ID	DWR_RD1500_01_s_2012_963				
Action/Comments					
Ditch					

Photo 1 of 1 : FA_2014_RD1500_189_963_20141014_00081.jpg



Agricultural ditch, photo was taken in spring 2010.

LM Start	3.98	Rating **	M	Issue No.	1339
LM End	3.98	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.797605 °	38.797605 °	
			-121.695750 °	-121.695750 °	
DWR ID	DWR_RD1500_01_s_2014_1339				
Action/Comments					
Building					

Photo 1 of 1 : FA_2014_RD1500_189_1339_20141014_00097.jpg



A trailer and small shack is on the waterside berm. This was up stream a couple of years ago. Spring 2014

LM Start	3.98	Rating **	M	Issue No.	7
LM End	3.98	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.797607 °	38.797607 °	
			-121.695862 °	-121.695862 °	
DWR ID	DWR_RD1500_01_s_2012_7				
Action/Comments					
Building					

Photo 1 of 2 : FA_2014_RD1500_189_7_20141014_00006.jpg



A small building is encroaching into the landside levee toe.

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	3.98	Rating **	M	Issue No.	7 (cont)
LM End	3.98	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.797607 °	38.797607 °	
			-121.695862 °	-121.695862 °	
DWR ID	DWR_RD1500_01_s_2012_7				
Action/Comments					
Building					

Photo 2 of 2 : FA_2014_RD1500_189_7_20141014_00007.jpg



Chicken coupes have been added along the toe of the levee. Spring 2014

LM Start	4.01	Rating **	M	Issue No.	8
LM End	4.01	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.797827 °	38.797827 °	
			-121.695985 °	-121.695985 °	
DWR ID	DWR_RD1500_01_s_2012_8				
Action/Comments					
Landscaping					

Photo 1 of 1 : FA_2014_RD1500_189_8_20141014_00008.jpg



The landscape is planted into the encroachment zone within 15' of the toe.

LM Start	4.04	Rating **	M	Issue No.	54
LM End	4.16	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.798572 °	38.800080 °	
			-121.696392 °	-121.696653 °	
DWR ID	DWR_RD1500_01_s_2012_54				
Action/Comments					
Ditch					

Photo 1 of 1 : FA_2014_RD1500_189_54_20141014_00050.jpg



An agricultural ditch runs along the toe of the levee, photo taken spring 2012.

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	4.04	Rating **	M	Issue No.	44
LM End	4.04	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.798436 °	38.798436 °
				-121.696280 °	-121.696280 °
DWR ID	DWR_RD1500_01_f_2014_44				
Action/Comments					
Inspector Comments: FS_ID:28272 EP_NO: 3638 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - No protection for pressure breaker. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through levee, 2.4 feet below crown. Slant pump on berm. Pressure breaker on landward slope. Service pole at landward toe. Discharges into 36-inch diameter concrete standpipe on landside. (App. No. 3638 - J. Waters) FS Date: 1/9/2014					

No Photos

LM Start	4.19	Rating **	M	Issue No.	11
LM End	4.19	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.800548 °	38.800548 °
				-121.696751 °	-121.696751 °
DWR ID	DWR_RD1500_01_s_2012_11				
Action/Comments					
Building					

Photo 1 of 1 : FA_2014_RD1500_189_11_20141014_00010.jpg



The equipment shed encroaches into the toe of the levee.

LM Start	4.64	Rating **	M	Issue No.	12
LM End	4.64	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.803585 °	38.803585 °
				-121.702910 °	-121.702910 °
DWR ID	DWR_RD1500_01_s_2012_12				
Action/Comments					
Landscaping					

Photo 1 of 1 : FA_2014_RD1500_189_12_20141014_00011.jpg



The landscape is planted within the encroachment area of 15'.

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	4.71	Rating **	M	Issue No.	49
LM End	4.71	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.803025 °	38.803025 °	
			-121.704091 °	-121.704091 °	
DWR ID	DWR_RD1500_01_f_2014_49				
Action/Comments					
Inspector Comments: FS_ID:28912 EP_NO: 5031 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: New butterfly valve in CMP riser on waterside slope. New pipe and pump needs cleaning and clearing of siphon breaker in CMP on landside. An abandoned 5x5 foot concrete distribution box on landside. Abandoned pipe found on both sides of the levee. FIELD_STRUCT_DESC: 12-inch diameter steel irrigation pipe through levee at slight angle, 4.2 feet below crown. A 2-inch diameter conduit through levee, 2.0 feet below crown. Slant pump on steel platform on berm. (App. No. 5031-Knox.) Discharges into irrigation ditch and an abandoned 5x5 foot concrete distribution box on landside. Pipe originally installed in 1950 under App. No.1466 By Estate of Caroline L. Knox reinstalled by USCE, in 1958; O&M Manual Sac 128, March 1960. FS Date: 1/9/2014					

No Photos

LM Start	5.20	Rating **	A/W	Issue No.	1340
LM End	5.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.802164 °	38.802164 °	
			-121.712560 °	-121.712560 °	
DWR ID	DWR_RD1500_01_s_2014_1340				
Action/Comments					
Trees / Woody Vegetation					

Photo 1 of 1 : FA_2014_RD1500_189_1340_20141014_00098.jpg



Monitor tree that may pose a future threat to the integrity of the levee. Spring 2014

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	5.23	Rating **	M	Issue No.	57
LM End	5.23	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.802322 °	38.802322 °
				-121.712908 °	-121.712908 °
DWR ID	DWR_RD1500_01_f_2014_57				
Action/Comments					
Inspector Comments: FS_ID:28913 EP_NO: 10056 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Depression on landside levee slope around siphon breaker due to leakage. Siphon breaker needs protection. FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through levee, 4.0 feet below crown. 1 1/2-inch conduit through levee, 20 ft below crown. Slant pump in CM pump house on waterside. Wooden steps on waterside slope. Siphon breaker on landside slope. A 5 ft x 5 ft Concrete distribution box at landward toe. (ABO No. 10056 - Leiser) O&M Manual Sac 128, March 1960. FS Date: 1/9/2014					

No Photos

LM Start	5.30	Rating **	M	Issue No.	1341
LM End	5.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.802827 °	38.802827 °
				-121.714043 °	-121.714043 °
DWR ID	DWR_RD1500_01_s_2014_1341				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2014_RD1500_189_1341_20141014_00099.jpg



Trees need to be trimmed up to at least 5' they are blocking the visibility. Spring 2014

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	5.30	Rating **	M	Issue No.	1342
LM End	5.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.802826 °	38.802826 °	
			-121.714044 °	-121.714044 °	
DWR ID	DWR_RD1500_01_s_2014_1342				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD1500_189_1342_20141014_00100.jpg



A rodent hole on the landside levee slope. Spring 2014

LM Start	5.38	Rating **	M	Issue No.	14
LM End	5.38	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.803240 °	38.803240 °	
			-121.715402 °	-121.715402 °	
DWR ID	DWR_RD1500_01_s_2012_14				
Action/Comments					
Landscaping					

Photo 1 of 1 : FA_2014_RD1500_189_14_20141014_00012.jpg



The landscape completely blocks the landside slope and toe.

LM Start	5.67	Rating **	M	Issue No.	52
LM End	5.75	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.803005 °	38.803238 °	
			-121.720380 °	-121.721847 °	
DWR ID	DWR_RD1500_01_s_2012_52				
Action/Comments					
Building Inspector Comments: Sting Rayz Beach Boardwalk Marina on the waterside berm.					

Photo 1 of 2 : FA_2014_RD1500_189_52_20141014_00047.jpg



String Rayz RV park, Fall 2013

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	5.67	Rating **	M	Issue No.	52 (cont)
LM End	5.75	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.803005 °	38.803238 °	
			-121.720380 °	-121.721847 °	
DWR ID	DWR_RD1500_01_s_2012_52				
Action/Comments					
Building Inspector Comments: Sting Rayz Beach Boardwalk Marina on the waterside berm.					

Photo 2 of 2 : FA_2014_RD1500_189_52_20141014_00048.jpg



String Rayzs, Fall 2013

LM Start	6.53	Rating **	M	Issue No.	58
LM End	6.53	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.814501 °	38.814501 °	
			-121.723040 °	-121.723040 °	
DWR ID	DWR_RD1500_01_f_2014_58				
Action/Comments					
Inspector Comments: FS_ID:28286 EP_NO: 10074 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not found- 36-inch concrete standpipe on landside. 2-inch conduit through the levee. Pipe description does not match with field observaion. It needs review and more info from LMA capped pipe, air vent, and butterfly valve found on landside toe. But, it is not clear whether these belongs to this crossing. FIELD_STRUCT_DESC: 18-inch steel irrigation pipe and electric conduit through levee, 13.0 feet below crown. Slide gate in 42-inch Corrugated metal riser on berm. Slant pump on steel pump platform on berm. Installed by USCE, 1959. (ABO No. 10074 - TI&T Co.) O&M Manual Sac 128, March 1960. FS Date: 1/9/2014					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	7.18	Rating **	M	Issue No.	216
LM End	7.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.823781 °	38.823781 °	
			-121.722752 °	-121.722752 °	
DWR ID	DWR_RD1500_01_s_2012_216				
Action/Comments					
Prunings					

Photo 1 of 2 : FA_2014_RD1500_189_216_20141014_00076.jpg



The landowner has piled prunings along the levee toe.

LM Start	7.18	Rating **	M	Issue No.	216 (cont)
LM End	7.18	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_RD1500_189_216_20141014_00077.jpg



The pruning pile has reduced in size by burning it. A new pile is started. Spring 2014

LM Start	7.21	Rating **	M	Issue No.	217
LM End	7.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.824119 °	38.824119 °	
			-121.722776 °	-121.722776 °	
DWR ID	DWR_RD1500_01_s_2012_217				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2014_RD1500_189_217_20141014_00078.jpg



Trees need to be trimmed to the height of 5 feet to see the slope.

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	7.22	Rating **	M	Issue No.	59
LM End	7.22	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.824208 °	38.824208 °
				-121.722793 °	-121.722793 °
DWR ID	DWR_RD1500_01_f_2014_59				
Action/Comments					
Inspector Comments: FS_ID:28923 EP_NO: 10048 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: An abandoned pipe. Highly deteriorated pipe on river bankNeeds proper abandonmentNot found- Siphon breaker at landward levee toe. FIELD_STRUCT_DESC: Abandoned 10-inch diameter irrigation pipe through levee, 4.5 feet below crown. A 1-inch conduit through levee, 4.5 feet below crown. A pump in metal shed on bank. Gate valve on waterside end. Service pole and 24-inch Concrete standpipe at landside toe. Installed by USCE, 1958 (ABO. No. 10048-King) O&M Manual Sac 128, March 1960. FS Date: 1/9/2014					

No Photos

LM Start	7.26	Rating **	A/W	Issue No.	1343
LM End	7.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.824900 °	38.824900 °
				-121.722851 °	-121.722851 °
DWR ID	DWR_RD1500_01_s_2014_1343				
Action/Comments					
Trees / Woody Vegetation					

Photo 1 of 1 : FA_2014_RD1500_189_1343_20141014_00101.jpg



Monitor tree that may pose a future threat to the integrity of the levee. Spring 2014

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	7.57	Rating **	M	Issue No.	16
LM End	7.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.828975 °	38.828975 °	
			-121.724265 °	-121.724265 °	
DWR ID	DWR_RD1500_01_s_2012_16				
Action/Comments					
Equipment					

Photo 1 of 1 : FA_2014_RD1500_189_16_20141014_00014.jpg



Equipment along landside toe. Photo was taken in spring 2010.

LM Start	7.66	Rating **	M	Issue No.	17
LM End	7.66	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.830260 °	38.830260 °	
			-121.725357 °	-121.725357 °	
DWR ID	DWR_RD1500_01_s_2012_17				
Action/Comments					
Landscaping					

Photo 1 of 2 : FA_2014_RD1500_189_17_20141014_00015.jpg



Landscape shrubs, photo taken in spring 2010.

LM Start	7.66	Rating **	M	Issue No.	17 (cont)
LM End	7.66	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2014_RD1500_189_17_20141014_00016.jpg



A current view of the landscape on the levee slope. Spring 2014

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	7.78	Rating **	U	Issue No.	62
LM End	7.78	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.831638 °	38.831638 °	
			-121.726580 °	-121.726580 °	
DWR ID	DWR_RD1500_01_f_2014_62				
Action/Comments					
Inspector Comments: FS_ID:28924 EP_NO: 8147 Repair Type: Urgent Crossing Status: Found UCIP Comments: Not found- slide gate in 48-inch corrugated metal riser at waterside to Repair works under way. Contact LMA for repair					

No Photos

LM Start	8.04	Rating **	M	Issue No.	63
LM End	8.04	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.834260 °	38.834260 °	
			-121.729566 °	-121.729566 °	
DWR ID	DWR_RD1500_01_f_2014_63				
Action/Comments					
Inspector Comments: FS_ID:28323 EP_NO: 13882 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Power pole on landside. 2-inch conduit through the levee. Service box on waterside. Concrete pad on waterside. Not found- Concrete distribution box on landward side; not found- gate valve on waterside. Need proper abandonment. Pipe visible on river bank, waterside levee slope and landside field. FIELD_STRUCT_DESC: Abandoned 6-inch diameter steel irrigation pipe and electric conduit through levee, 4.9 feet below crown. 1-1/2 conduit through levee, 4.0 feet below crown. Service pole at landward levee toe. (ABO. No. 10062-Moroni, App. No. 13882) FS Date: 1/10/2014					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	8.30	Rating **	M	Issue No.	3
LM End	8.30	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.838464 °	38.840347 °
				-121.730205 °	-121.726857 °
DWR ID	DWR_RD1500_01_f_2014_3				
Action/Comments					
Inspector Comments: 1997 - Damage to cobble revetment on top left bank and toe damage. 2004 - Site is pretty minor. 2010 - Cobbles continue to deteriorate. 2011 - Minor new erosion at the toe. 2013: Might be able to shorten due to deposition. [2013 Site ID: SAC_92-8_L]					

Photo 1 of 1 : FA_2014_RD1500_189_3_20141014_00003.jpg



USACE 2013 Photo #1

LM Start	8.42	Rating **	M	Issue No.	64
LM End	8.42	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.839446 °	38.839446 °
				-121.728901 °	-121.728901 °
DWR ID	DWR_RD1500_01_f_2014_64				
Action/Comments					
Inspector Comments: FS_ID:28324 EP_NO: 10064 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Looks abandoned as service pole not found. May need proper abandonment. FIELD_STRUCT_DESC: 2 foot by 2 foot concrete box culvert through levee, 13.0 feet below crown. Pump on 6 foot diameter concrete pump well on berm. Slide gate in 42-inch CM riser on waterward slope. 4.5 foot by 6 foot concrete distribution box at landward toe. (ABO No. 10064 - Nix) FS Date: 1/10/2014					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	8.99	Rating **	A/W	Issue No.	1344
LM End	8.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.845076 °	38.845076 °	
			-121.728301 °	-121.728301 °	
DWR ID	DWR_RD1500_01_s_2014_1344				
Action/Comments					
Trees / Woody Vegetation					

Photo 1 of 1 : FA_2014_RD1500_189_1344_20141014_00102.jpg



The walnut tree at the toe has fallen. The roots are exposed and the branches are holding it up. Spring 2014

LM Start	9.03	Rating **	M	Issue No.	66
LM End	9.03	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.845578 °	38.845578 °	
			-121.728406 °	-121.728406 °	
DWR ID	DWR_RD1500_01_f_2014_66				
Action/Comments					
Inspector Comments: FS_ID:28363 EP_NO: 8503 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Looks abandoned. No pump found on WS. New well near landside. May need proper abandonment. Exposed pipe on waterside. Found steel plate closed pipe on landside. FIELD_STRUCT_DESC: Abandoned 12-inch steel irrigation pipe through levee, 3.8 feet below crown. Pump on concrete pad with headwall. Siphon breaker in 24-inch CM riser on waterward slope. 1-1/4-inch conduit through levee, 3.0 feet below crown. Service pole with switch panel at landward toe. Concrete distribution box on landward toe. (App. No. 8503 - Munson) O&M Manual Sac 128, March 1960. FS Date: 1/10/2014					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	9.20	Rating **	M	Issue No.	70
LM End	9.20	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.847841 °	38.847841 °
				-121.727172 °	-121.727172 °
DWR ID	DWR_RD1500_01_f_2014_70				
Action/Comments					
Inspector Comments: FS_ID:28364 EP_NO: 5598 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not found- Wood headwall 18 ft from landward toe. Not found- Flap gate on landward side. No outlet structure found. Only a capped pipe found, but not sure whether it is connected to the crossing. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through levee, 4.8 feet below crown. Electrical conduit through levee, 4.8 feet below crown. Slant pump on steel structure. Siphon breaker in landward shoulder. Service pole on landside toe. Discharges into field. Installed 1967. (App. No. 5598 & 8505 - James) FS Date: 1/10/2014					

No Photos

LM Start	9.47	Rating **	A/W	Issue No.	74
LM End	9.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.850267 °	38.853222 °
				-121.723275 °	-121.724062 °
DWR ID	DWR_RD1500_01_s_2012_74				
Action/Comments					
Environmental Requirements.					

Photo 1 of 2 : FA_2014_RD1500_189_74_20141014_00061.jpg



A revegetation site on the waterside bank with sprinklers installed.

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	9.47	Rating **	A/W	Issue No.	74 (cont)
LM End	9.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.850267 °	38.853222 °	
			-121.723275 °	-121.724062 °	
DWR ID	DWR_RD1500_01_s_2012_74				
Action/Comments					
Environmental Requirements.					

Photo 2 of 2 : FA_2014_RD1500_189_74_20141014_00062.jpg



Another revegetation site photo taken spring 2012.

LM Start	9.74	Rating **	M	Issue No.	71
LM End	9.74	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.853364 °	38.853364 °	
			-121.724617 °	-121.724617 °	
DWR ID	DWR_RD1500_01_f_2014_71				
Action/Comments					
Inspector Comments: FS_ID:28365 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Looks abandoned. Pump has been removed. No outlet pipe found. Not found- Wooden service panel and 3x5 foot concrete distribution box at landward shoulder. May need proper abandonment. FIELD_STRUCT_DESC: 14-inch diameter steel irrigation pipe through levee, 4.2 feet below crown. Pump and gate valve on concrete pump platform on bank. Siphon breaker on waterward shoulder. Service panel and pole on waterside shoulder. O&M Manual Sac 128, March 1960. FS Date: 1/10/2014					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	10.21	Rating **	M	Issue No.	73
LM End	10.21	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.857853 °	38.857853 °
				-121.728222 °	-121.728222 °
DWR ID	DWR_RD1500_01_f_2014_73				
Action/Comments					
Inspector Comments: FS_ID:28366 EP_NO: 10068 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Surface erosion along pipe alignment on landside 30-inch concrete pipe in CMP riser on waterside 30-inch x 24-inch concrete culvert on landside. FIELD_STRUCT_DESC: A 2 foot by 2.5 foot concrete box culvert through levee, 13.0 feet below crown. A pump on river bank, power pole and switch panel on waterside berm. Concrete surge box with slide gate on waterside berm. Concrete distribution box at landward toe. (ABO. No. 10068-Reel) O&M Manual Sac 128, March 1960. FS Date: 1/10/2014					

No Photos

LM Start	10.69	Rating **	M	Issue No.	1345
LM End	10.69	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.861168 °	38.861168 °
				-121.735150 °	-121.735150 °
DWR ID	DWR_RD1500_01_s_2014_1345				
Action/Comments					
Building					

Photo 1 of 1 : FA_2014_RD1500_189_1345_20141014_00103.jpg



A temporary building (fishing shack) is on the waterside berm. Spring 2014

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	10.79	Rating **	M	Issue No.	75
LM End	10.79	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.861550 °	38.861550 °
				-121.737006 °	-121.737006 °
DWR ID	DWR_RD1500_01_f_2014_75				
Action/Comments					
Inspector Comments: FS_ID:28925 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump removed obstructed siphon breaker in CMP riser on landside. FIELD_STRUCT_DESC: A 12-inch diameter steel irrigation pipe through levee, 4.3 feet below crown. A 1-1/2 conduit through levee. 2.0 feet below crown. Pump on river bank, siphon breaker on landside shoulder. A 8x6 ft. concrete distribution box and service pole at landside toe. O&M Manual Sac 128, March 1960. FS Date: 1/10/2014					

No Photos

LM Start	11.34	Rating **	U	Issue No.	79
LM End	11.34	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.865649 °	38.865649 °
				-121.745279 °	-121.745279 °
DWR ID	DWR_RD1500_01_f_2014_79				
Action/Comments					
Inspector Comments: FS_ID:28384 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Pump removed 10-inch pipe joined to 14-inch pipe wet, some vegetations, and subsidence along pipe alignment on landside. This needs detailed investigation. FIELD_STRUCT_DESC: 14-inch diameter steel irrigation pipe through levee. 4.7 feet below crown. Pump and gate valve on concrete platform on bank. Switch control house and service pole on shoulder. Siphon breaker on landside slope. Concrete distribution box on landward side. O&M Manual Sac 128, March 1960. FS Date: 1/10/2014					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	11.43	Rating **	M	Issue No.	20
LM End	11.43	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.866762 °	38.866762 °	
			-121.746125 °	-121.746125 °	
DWR ID	DWR_RD1500_01_s_2012_20				
Action/Comments					
Landscaping					

Photo 1 of 1 : FA_2014_RD1500_189_20_20141014_00018.jpg



The homeowner has landscaped the levee slope.

LM Start	11.56	Rating **	U	Issue No.	80
LM End	11.56	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.868544 °	38.868544 °	
			-121.746471 °	-121.746471 °	
DWR ID	DWR_RD1500_01_f_2014_80				
Action/Comments					
Inspector Comments: FS_ID:28385 EP_NO: 10041 Repair Type: Urgent Crossing Status: Found UCIP Comments: Depressions on both sides of the levee slope. It needs more investigation. Pump removed. FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through levee, 4.0 feet below crown. Pump and gate valve on concrete pump platform on bank. Corrugated metal switch house on waterside. Service pole on waterside shoulder. 8 foot by 6 foot I.D. concrete distribution box on landside. Overhead power line. Pole at landward toe. (ABO No. 10041 - Duffy) O&M Manual Sac 128, March 1960. FS Date: 1/10/2014					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	11.81	Rating **	M	Issue No.	6
LM End	11.81	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.871853 °	38.870581 °
				-121.749330 °	-121.752059 °
DWR ID	DWR_RD1500_01_f_2014_6				
Action/Comments					
Inspector Comments: 1997 - No toe on the large upstream rubble (mix of broken concrete, bricks, rock, and steal) - should be replaced. Oversized bank. 2001 - New slump at the downstream end. 2003 - Some minor bank retreat at the downstream end. 2004 - Some new retreat at the downstream end. 2006 - Some new erosion, mainly on the steep slope and scarps. (Pumping station is not part of the erosion site.) 2010 - Minor new erosion. 2011 - Minor new erosion at the toe. 2013: No observed changes. [2013 Site ID: SAC_95-8_L]					

No Photos

LM Start	11.93	Rating **	M	Issue No.	219
LM End	11.93	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.872220 °	38.872220 °
				-121.749785 °	-121.749785 °
DWR ID	DWR_RD1500_01_s_2012_219				
Action/Comments					
Debris					

Photo 1 of 2 : FA_2014_RD1500_189_219_20141014_00079.jpg



Concret debris stockpiled on the waterside. Fall 2013

LM Start	11.93	Rating **	M	Issue No.	219 (cont)
LM End	11.93	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2014_RD1500_189_219_20141014_00080.jpg



Concrete debris is along the berm area. Spring 2014

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	12.02	Rating **	M	Issue No.	56
LM End	12.02	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.871540 °	38.871540 °	
			-121.751203 °	-121.751203 °	
DWR ID	DWR_RD1500_01_f_2013_56				
Action/Comments					
Debris					

Photo 1 of 1 : FA_2014_RD1500_189_56_20141014_00051.jpg



Another pile of concrete debris on the waterside. Fall 2013

LM Start	12.04	Rating **	M	Issue No.	1346
LM End	12.04	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.871375 °	38.871375 °	
			-121.751541 °	-121.751541 °	
DWR ID	DWR_RD1500_01_s_2014_1346				
Action/Comments					
Debris					

Photo 1 of 1 : FA_2014_RD1500_189_1346_20141014_00104.jpg



A concrete debris pile is on the berm area. Spring 2014

LM Start	12.14	Rating **	M	Issue No.	10
LM End	12.14	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	USACE Erosion Survey		38.870474 °	38.869139 °	
			-121.752237 °	-121.757108 °	
DWR ID	DWR_RD1500_01_f_2014_10				
Action/Comments					
Inspector Comments: 2000 - Vertical Modesto Formation bank with mass failure. 2003 - Upstream end has some new bank retreat. 2004 - Upstream end is worse. 2006 - Some new erosion, mainly on the steep slope and scarps. (Pumping station is not part of the erosion site.) 2010 - Some new erosion and deposition at upstream end, definite encroachments. 2011 - Minor new erosion at the toe. 2013: No observed changes. [2013 Site ID: SAC_96-2_L]					

Photo 1 of 1 : FA_2014_RD1500_189_10_20141014_00009.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	12.31	Rating **	A/W	Issue No.	50
LM End	12.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.869700 °	38.869700 °	
			-121.755945 °	-121.755945 °	
DWR ID	DWR_RD1500_01_s_2012_50				
Action/Comments					
Note and monitor erosion site. Inspector Comments: wide berm					

Photo 1 of 1 : FA_2014_RD1500_189_50_20141014_00044.jpg



An erosion site along the embankment, photo taken spring 2012.

LM Start	12.55	Rating **	M	Issue No.	24
LM End	12.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.868717 °	38.868717 °	
			-121.760133 °	-121.760133 °	
DWR ID	DWR_RD1500_01_s_2012_24				
Action/Comments					
Equipment					

Photo 1 of 2 : FA_2014_RD1500_189_24_20141014_00022.jpg



There is equipment parked along the toe of the levee.

LM Start	12.55	Rating **	M	Issue No.	24 (cont)
LM End	12.55	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_RD1500_189_24_20141014_00023.jpg



A current view of the equipment parked along the levee toe Spring 2014

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	12.68	Rating **	M	Issue No.	81
LM End	12.68	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.867254 °	38.867254 °	
			-121.761212 °	-121.761212 °	
DWR ID	DWR_RD1500_01_f_2014_81				
Action/Comments					
Inspector Comments: FS_ID:28463 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Needs proper abandonment. FIELD_STRUCT_DESC: Abandoned 18-inch Corrugated Metal					

No Photos

LM Start	12.93	Rating **	A/W	Issue No.	25
LM End	12.93	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.865127 °	38.865127 °	
			-121.765157 °	-121.765157 °	
DWR ID	DWR_RD1500_01_s_2012_25				
Action/Comments					
Equipment					

Photo 1 of 1 : FA_2014_RD1500_189_25_20141014_00024.jpg



On top of the crown is farm equipment and irrigation pipe.

LM Start	13.15	Rating **	M	Issue No.	26
LM End	13.15	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.863438 °	38.863438 °	
			-121.768212 °	-121.768212 °	
DWR ID	DWR_RD1500_01_s_2012_26				
Action/Comments					
Building					

Photo 1 of 1 : FA_2014_RD1500_189_26_20141014_00025.jpg



The buildings backside was built into the toe of the levee.

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	13.18	Rating **	M	Issue No.	992
LM End	13.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.863081 °	38.863081 °	
			-121.768781 °	-121.768781 °	
DWR ID	DWR_RD1500_01_s_2012_992				
Action/Comments					
Equipment Inspector Comments: tires					

Photo 1 of 1 : FA_2014_RD1500_189_992_20141014_00091.jpg



Next to the building there are tires and axles stored at the toe.

LM Start	13.98	Rating **	M	Issue No.	15
LM End	13.98	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	USACE Erosion Survey		38.857239 °	38.861899 °	
			-121.783771 °	-121.784057 °	
DWR ID	DWR_RD1500_01_f_2014_15				
Action/Comments					
Inspector Comments: 1997 - Intermittent toe failure of the hand placed riprap; failure of toe materials. 2013: No observed changes. [2013 Site ID: SAC_99-0_L]					

Photo 1 of 1 : FA_2014_RD1500_189_15_20141014_00013.jpg



USACE 2013 Photo #1

LM Start	14.13	Rating **	A/W	Issue No.	28
LM End	14.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.857792 °	38.857792 °	
			-121.783265 °	-121.783265 °	
DWR ID	DWR_RD1500_01_s_2012_28				
Action/Comments					
Equipment					

Photo 1 of 1 : FA_2014_RD1500_189_28_20141014_00026.jpg



View of equipment. Photo was taken in spring 2010.

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	14.32	Rating **	M	Issue No.	89
LM End	14.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.860452 °	38.860452 °	
			-121.783294 °	-121.783294 °	
DWR ID	DWR_RD1500_01_s_2013_89				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD1500_189_89_20141014_00072.jpg



Rodent hole in the levee slope above the retaining wall, Spring 2013

LM Start	14.35	Rating **	M	Issue No.	30
LM End	14.35	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.860848 °	38.860848 °	
			-121.783307 °	-121.783307 °	
DWR ID	DWR_RD1500_01_s_2012_30				
Action/Comments					
Building Inspector Comments: Concrete stemwall into levee embankment.					

Photo 1 of 1 : FA_2014_RD1500_189_30_20141014_00028.jpg



Building and wall into levee. Photo was taken in spring 2010.

LM Start	14.39	Rating **	M	Issue No.	31
LM End	14.39	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.861513 °	38.861513 °	
			-121.783588 °	-121.783588 °	
DWR ID	DWR_RD1500_01_s_2012_31				
Action/Comments					
Landscaping					

Photo 1 of 1 : FA_2014_RD1500_189_31_20141014_00029.jpg



Landscape shrubs on shoulder. Photo was taken in spring 2010.

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	14.42	Rating **	U	Issue No.	77
LM End	14.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.861793 °	38.861793 °	
			-121.783703 °	-121.783703 °	
DWR ID	DWR_RD1500_01_s_2012_77				
Action/Comments					
Trim and thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 2 : FA_2014_RD1500_189_77_20141014_00065.jpg



The trees on the landside slope blocks the view of the slope, photo taken spring 2012.

LM Start	14.42	Rating **	U	Issue No.	77 (cont)
LM End	14.42	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_RD1500_189_77_20141014_00066.jpg



The trees on the levee slope completely bocks visibility. Spring 2014

LM Start	14.86	Rating **	M	Issue No.	969
LM End	15.93	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.865473 °	38.871752 °	
			-121.789413 °	-121.804257 °	
DWR ID	DWR_RD1500_01_s_2012_969				
Action/Comments					
Ditch					

Photo 1 of 1 : FA_2014_RD1500_189_969_20141014_00082.jpg



Agricultural ditch, photo taken in spring 2010.

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	15.27	Rating **	M	Issue No.	21
LM End	15.27	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.866827 °	38.866827 °	
			-121.794020 °	-121.794020 °	
DWR ID	DWR_RD1500_01_s_2012_21				
Action/Comments					
Debris Inspector Comments: A pile of rip rap and concrete needs to be removed.					

Photo 1 of 1 : FA_2014_RD1500_189_21_20141014_00019.jpg



Rip rap and concrete debris, photo taken in spring 2010.

LM Start	15.27	Rating **	M	Issue No.	82
LM End	15.27	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.866841 °	38.866841 °	
			-121.794047 °	-121.794047 °	
DWR ID	DWR_RD1500_01_f_2014_82				
Action/Comments					
Inspector Comments: FS_ID:28486 EP_NO: 10037 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Water treatment plant on landside working during field visit. Not found- Flap Gate in 6.5 foot by 7.0 foot O.D. concrete distribution box at landward toe. FIELD_STRUCT_DESC: 22-inch concrete encased steel irrigation pipe through levee, 17.5 feet below crown. 1.5 -inch conduit through levee, 6.0 feet below crown. Slant pump on river bank. Gate valve in CMP riser on waterside. A 6.5 foot by 7.0 foot O.D. concrete distribution box at landward toe. (ABO. No. 10037 - Clauss) O&M Manual Sac 128, March 1960. FS Date: 1/10/2014					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	15.42	Rating **	M	Issue No.	110
LM End	15.42	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.868244 °	38.868244 °	
			-121.796220 °	-121.796220 °	
DWR ID	DWR_RD1500_01_f_2014_110				
Action/Comments					
Debris					

Photo 1 of 1 : FA_2014_RD1500_189_110_20141030_00154.jpg



Broken concrete and a pipe.

LM Start	15.94	Rating **	A/W	Issue No.	32
LM End	15.94	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.871960 °	38.871960 °	
			-121.804440 °	-121.804440 °	
DWR ID	DWR_RD1500_01_s_2012_32				
Action/Comments					
Equipment					

Photo 1 of 1 : FA_2014_RD1500_189_32_20141014_00030.jpg



Farm equipment has been parked on the waterside berm.

LM Start	16.37	Rating **	M	Issue No.	78
LM End	16.37	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.874623 °	38.874623 °	
			-121.811272 °	-121.811272 °	
DWR ID	DWR_RD1500_01_s_2012_78				
Action/Comments					
Equipment					

Photo 1 of 2 : FA_2014_RD1500_189_78_20141014_00067.jpg



The equipment is parked along the toe of the levee, photo taken spring 2012.

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	16.37	Rating **	M	Issue No.	78 (cont)
LM End	16.37	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.874623 °	38.874623 °	
			-121.811272 °	-121.811272 °	
DWR ID	DWR_RD1500_01_s_2012_78				
Action/Comments					
Equipment					

Photo 2 of 2 : FA_2014_RD1500_189_78_20141014_00068.jpg



A current view of equipment at the toe of the levee. Spring 2014

LM Start	16.48	Rating **	U	Issue No.	33
LM End	16.48	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.875873 °	38.875873 °	
			-121.812410 °	-121.812410 °	
DWR ID	DWR_RD1500_01_s_2012_33				
Action/Comments					
Landscaping Inspector Comments: oleanders and other shrubs					

Photo 1 of 1 : FA_2014_RD1500_189_33_20141014_00031.jpg



Landscape shrubs, photo taken in spring 2010.

LM Start	16.54	Rating **	C	Issue No.	1348
LM End	19.11	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.876629 °	38.900677 °	
			-121.813050 °	-121.792113 °	
DWR ID	DWR_RD1500_01_s_2014_1348				
Action/Comments					
Keep the crown roadway free of vegetation.					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	16.54	Rating **	M	Issue No.	1347
LM End	16.54	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.876629 °	38.876629 °	
			-121.813046 °	-121.813046 °	
DWR ID	DWR_RD1500_01_s_2014_1347				
Action/Comments					
Debris					

Photo 1 of 1 : FA_2014_RD1500_189_1347_20141014_00105.jpg



Pipe and debris is placed along the levee toe. Spring 2014

LM Start	16.54	Rating **	C	Issue No.	1352
LM End	16.54	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.876629 °	38.876629 °	
			-121.813050 °	-121.813050 °	
DWR ID	DWR_RD1500_01_s_2014_1352				
Action/Comments					
Agricultural tilling					

No Photos

LM Start	16.86	Rating **	M	Issue No.	972
LM End	17.45	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.881092 °	38.887335 °	
			-121.813713 °	-121.808187 °	
DWR ID	DWR_RD1500_01_s_2012_972				
Action/Comments					
Ditch					

Photo 1 of 2 : FA_2014_RD1500_189_972_20141014_00083.jpg



Agricultural ditch, photo taken in spring 2010.

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	16.86	Rating **	M	Issue No.	972 (cont)
LM End	17.45	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.881092 °	38.887335 °	
			-121.813713 °	-121.808187 °	
DWR ID	DWR_RD1500_01_s_2012_972				
Action/Comments					
Ditch					

Photo 2 of 2 : FA_2014_RD1500_189_972_20141014_00084.jpg



Agricultural ditch runs along the toe of the levee. Spring 2014

LM Start	17.16	Rating **	M	Issue No.	83
LM End	17.16	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.885098 °	38.885098 °	
			-121.812884 °	-121.812884 °	
DWR ID	DWR_RD1500_01_f_2014_83				
Action/Comments					
Inspector Comments: FS_ID:28489 EP_NO: 8510 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe not visible on river bank cleaning and clearing require around slide gates. May be abandoned. FIELD_STRUCT_DESC: 24-inch CM irrigation pipe through levee, 15.0 feet below crown. Slide gate in 36-inch CM riser on waterward slope. Slide gate on concrete "U" headwall an irrigation ditch at landward toe. (App No. 8510, 11/1972 - Clauss) O&M Manual Sac 128, March 1960. FS Date: 1/14/2014					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	17.46	Rating **	M	Issue No.	85
LM End	17.46	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.887377 °	38.887377 °	
			-121.808219 °	-121.808219 °	
DWR ID	DWR_RD1500_01_f_2014_85				
Action/Comments					
Inspector Comments: FS_ID:28490 EP_NO: 1739 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Most of the pipe exposed on levee slope. Pipe leakage repaired recently. Siphon breaker requires protection. FIELD_STRUCT_DESC: 20-inch welded steel irrigation pipe through levee, 5.5 feet below crown. Slant pump mounted on steel structure on waterside. Siphon breaker on landward slope. Discharges into concrete distribution box at landward toe. (App. No. 1739 - Clauss) (RM 102.50) O&M Manual Sac 128, March 1960 FS Date: 1/14/2014					

No Photos

LM Start	18.50	Rating **	A/W	Issue No.	51
LM End	18.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.900873 °	38.900873 °	
			-121.802680 °	-121.802680 °	
DWR ID	DWR_RD1500_01_s_2012_51				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 2 : FA_2014_RD1500_189_51_20141014_00045.jpg



This is an upstream view of the same erosion.

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	18.50	Rating **	A/W	Issue No.	51 (cont)
LM End	18.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.900873 °	38.900873 °	
			-121.802680 °	-121.802680 °	
DWR ID	DWR_RD1500_01_s_2012_51				
Action/Comments					
Note and monitor erosion site.					

Photo 2 of 2 : FA_2014_RD1500_189_51_20141014_00046.jpg



This is an inside curve in the river and erosion has occurred.

LM Start	18.51	Rating **	M	Issue No.	22
LM End	18.51	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	USACE Erosion Survey		38.901337 °	38.902721 °	
			-121.801175 °	-121.790677 °	
DWR ID	DWR_RD1500_01_f_2014_22				
Action/Comments					
Inspector Comments: 1997 - Pocket failures of cobble revetment toe; scallops of rock loss along the bank; irregular bankline developing. 2001 - Small scallops in the toe of the berm. 2005 - Still multiple erosion pockets in the toe. 2006 - Two new small slumps. 2011 - Old cobble continue to fail causing minor slumping. 2012 - Portions of site appears to be stabilizing. 2013: No observed changes. [2013 Site ID: SAC_104-0_L]					

Photo 1 of 1 : FA_2014_RD1500_189_22_20141014_00020.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	18.56	Rating **	M	Issue No.	87
LM End	18.56	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.900885 °	38.900885 °	
			-121.800999 °	-121.800999 °	
DWR ID	DWR_RD1500_01_f_2014_87				
Action/Comments					
Inspector Comments: FS_ID:28505 EP_NO: 2425 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Concrete pad on both sides of the levee shoulder. Oil leaks from pump set. FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through levee, 3.0 feet below crown. Slant pump in Corrugated metal pump house on steel structure on bank. Meter pole on slope. Siphon breaker on landward shoulder. Discharges into 36-inch concrete standpipe at landward toe. (App. No. 2425 - Hiatt). O&M Manual Sac 128, March 1960. FS Date: 1/14/2014					

No Photos

LM Start	19.19	Rating **	M	Issue No.	36
LM End	19.19	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.901570 °	38.901570 °	
			-121.791235 °	-121.791235 °	
DWR ID	DWR_RD1500_01_s_2012_36				
Action/Comments					
Building Inspector Comments: Concrete retaining wall toe of landside levee. Permit #10065					

Photo 1 of 1 : FA_2014_RD1500_189_36_20141014_00035.jpg



Building and wall into levee with landscape, photo taken in spring 2010.

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	19.22	Rating **	M	Issue No.	37
LM End	19.22	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.901942 °	38.901942 °	
			-121.790937 °	-121.790937 °	
DWR ID	DWR_RD1500_01_s_2012_37				
Action/Comments					
Landscaping Inspector Comments: Concrete retaining wall along toe of landside levee. Permit #10065					

Photo 1 of 1 : FA_2014_RD1500_189_37_20141014_00036.jpg



The groundcover is on the levee slope above the concrete retaining wall. The groundcover is irrigated.

LM Start	19.24	Rating **	M	Issue No.	23
LM End	19.24	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	USACE Erosion Survey		38.904041 °	38.906697 °	
			-121.790298 °	-121.792796 °	
DWR ID	DWR_RD1500_01_f_2014_23				
Action/Comments					
Inspector Comments: 1997 - Cobbles eroded off the clay materials; not much evidence of erosion on the toe; cobble loss on the toe. 2011 - Some minor new erosion. 2013: No observed changes. [2013 Site ID: SAC_104-5_L]					

Photo 1 of 1 : FA_2014_RD1500_189_23_20141014_00021.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	19.44	Rating **	M	Issue No.	88
LM End	19.44	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.905029 °	38.905029 °	
			-121.790076 °	-121.790076 °	
DWR ID	DWR_RD1500_01_f_2014_88				
Action/Comments					
Inspector Comments: FS_ID:28506 EP_NO: 550 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Surface erosion on landside slope. Oil leaks from the pump. FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through levee, 4.8 feet below crown. Slant pump and gate valve in CM pump house on steel structure on berm. Water meter installed on pipe on the waterward slope. Concrete distribution box on landward side. (App. No. 550 - Hiatt) O&M Manual Sac 128, March 1960. New permit no. 17648GM- Van Ruiten Bros- June 24, 2003. FS Date: 1/14/2014					

No Photos

LM Start	19.69	Rating **	M	Issue No.	90
LM End	19.69	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.907033 °	38.907033 °	
			-121.792943 °	-121.792943 °	
DWR ID	DWR_RD1500_01_f_2014_90				
Action/Comments					
Inspector Comments: FS_ID:28524 EP_NO: 15681 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Obstructed siphon breakers on landside. Two 3-inch conduit through the levee. Service box on pump platform. Pumping plant was working during the field visit. FIELD_STRUCT_DESC: 1 of 2: Two slant pumps supported by steel piling on the riverbank. 16 and 18-inches steel pipelines, asphalt coated inside and out and wrapped with asphalt saturated felt through the levee section to a concrete discharge box located landward of the landward levee toe. Pipes 1.5 feet below the crown. Siphon breakers in steel pipe risers on levee slope. (App. No. 15681) FS Date: 1/14/2014					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	19.69	Rating **	M	Issue No.	91
LM End	19.69	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.907028 °	38.907028 °	
			-121.792959 °	-121.792959 °	
DWR ID	DWR_RD1500_01_f_2014_91				
Action/Comments					
Inspector Comments: FS_ID:28927 EP_NO: 15681 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Obstructed siphon breakers on landside two 3-inch conduit through the levee service box on pump platform. Pumping plant was working during the field visit. FIELD_STRUCT_DESC: 2 of 2: Two slant pumps supported by steel piling on the riverbank. 18 and 16-inches steel pipelines, asphalt coated inside and out and wrapped with asphalt saturated felt through the levee section to a concrete discharge box located landward of the landward levee toe. Pipes 1.5 feet below the crown. Siphon breakers in steel pipe risers on levee slope. (App. No. 15681) FS Date: 1/14/2014					

No Photos

LM Start	20.86	Rating **	M	Issue No.	975
LM End	21.40	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.910177 °	38.913267 °	
			-121.810352 °	-121.803142 °	
DWR ID	DWR_RD1500_01_s_2012_975				
Action/Comments					
Ditch					

Photo 1 of 1 : FA_2014_RD1500_189_975_20141014_00085.jpg



Agricultural ditch, photo taken in spring 2010.

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	21.50	Rating **	M	Issue No.	92
LM End	21.50	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.914659 °	38.914659 °
				-121.803609 °	-121.803609 °
DWR ID	DWR_RD1500_01_f_2014_92				
Action/Comments					
Inspector Comments: FS_ID:28527 EP_NO: 11959A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Siphon breaker (obstructed) in CMP on landside slope power pole on landside toe. FIELD_STRUCT_DESC: 10-inch steel pipe through levee, 3.0 feet below crown with slant pump on steel platform. Siphon breaker (obstructed) in CMP on landside slope. A 6 foot by 6 foot concrete distribution box on landward side. (App. No. 11959A - Van Ruiten) O&M Manual Sac 128, March 1960. FS Date: 1/14/2014					

No Photos

LM Start	21.83	Rating **	M	Issue No.	93
LM End	21.83	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.916180 °	38.916180 °
				-121.808904 °	-121.808904 °
DWR ID	DWR_RD1500_01_f_2014_93				
Action/Comments					
Inspector Comments: FS_ID:28528 EP_NO: 10063 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Water leaks near pump. Obstructed siphon breaker in CMP on landside plant was working during field visit. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through levee 6.3 feet below crown. 1-1/2-inch conduit through levee, 6.5 feet below crown. Slant pump and gate valve on berm. Siphon breaker in 24-inch corrugated metal riser on landward slope. CMP standpipe on landside toe. Power pole and one anchor at landward toe. (ABO. No. 10063, 11/1974 - Nelson) O&M Manual Sac 128, March 1960. FS Date: 1/14/2014					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	22.16	Rating **	M	Issue No.	94
LM End	22.16	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.916606 °	38.916606 °	
			-121.814881 °	-121.814881 °	
DWR ID	DWR_RD1500_01_f_2014_94				
Action/Comments					
Inspector Comments: FS_ID:28543 EP_NO: 10851 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Obstructed siphon breaker plant was working during field visit. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through levee, 5.8 feet below crown. 1.5-inch conduit through levee, 4 feet below crown. Pump and gate valve on bank. Switch panel on berm. Siphon breaker in 24-inch CM riser on landward slope. Discharges into 36-inch CM standpipe on landward side. Service pole at landward toe. Pumping Plant No. 3. (App. No. 10851, 2895 - George Van Ruiten). FS Date: 1/14/2014					

No Photos

LM Start	22.99	Rating **	M	Issue No.	95
LM End	22.99	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.919717 °	38.919717 °	
			-121.829113 °	-121.829113 °	
DWR ID	DWR_RD1500_01_f_2014_95				
Action/Comments					
Inspector Comments: FS_ID:28583 EP_NO: 10851 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Exposed conduit on both slopes of the levee plant was working during field visit. Water was leaking from pipe joint near pump. Obstructed siphon breaker in CMP. FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through levee, 6.2 feet below crown. Pump and gate valve on steel platform. Switch panel on berm. Siphon breaker in 24-inch CM riser on landward shoulder. Discharges into 36-inch CM standpipe at landward toe. 2-inch conduit through levee, 5.0 feet below crown. Service pole at landward toe. Pumping plant No. 2. (App. No. 10851, 2895 - Van Ruiten) FS Date: 1/14/2014					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	23.69	Rating **	M	Issue No.	1349
LM End	23.94	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.927290 °	38.930442 °
				-121.836912 °	-121.834905 °
DWR ID	DWR_RD1500_01_s_2014_1349				
Action/Comments					
Ditch					

Photo 1 of 1 : FA_2014_RD1500_189_1349_20141014_00107.jpg



Agricultural ditch runs along the toe of the levee. Spring 2014

LM Start	23.93	Rating **	M	Issue No.	96
LM End	23.93	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.930242 °	38.930242 °
				-121.834956 °	-121.834956 °
DWR ID	DWR_RD1500_01_f_2014_96				
Action/Comments					
Inspector Comments: FS_ID:28586 EP_NO: 2895 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Most of the pipe exposed on levee slope & leaky pump. Obstructed siphon breaker not found- Concrete headwall at landward toe. FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through levee, 6.5 feet below crown. 1-1/2 inch conduit through levee, 4.0 feet below crown. Slant pump and control panel on steel structure on berm. Siphon breaker in 24-inch corrugated metal riser on landward shoulder. 36-inch CM standpipe at landward toe. Service pole at landward toe. Pumping- Plant No. 1. (App. No. 2895 - Van Ruiten) O&M Manual Sac 128, March 1960. FS Date: 1/14/2014					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	24.04	Rating **	M	Issue No.	42
LM End	24.04	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.931838 °	38.931838 °	
			-121.834437 °	-121.834437 °	
DWR ID	DWR_RD1500_01_s_2012_42				
Action/Comments					
Building Inspector Comments: Some equipment at landside toe.					

Photo 1 of 1 : FA_2014_RD1500_189_42_20141014_00039.jpg



Pole barn and some equipment, photo taken in spring 2010.

LM Start	24.44	Rating **	M	Issue No.	979
LM End	24.60	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.936282 °	38.938430 °	
			-121.830192 °	-121.829359 °	
DWR ID	DWR_RD1500_01_s_2012_979				
Action/Comments					
Ditch					

Photo 1 of 2 : FA_2014_RD1500_189_979_20141014_00086.jpg



Agricultural ditch, photo taken in spring 2010.

LM Start	24.44	Rating **	M	Issue No.	979 (cont)
LM End	24.60	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2014_RD1500_189_979_20141014_00087.jpg



Agricultural ditch runs along the toe of the levee. Spring 2014

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	24.60	Rating **	M	Issue No.	98
LM End	24.60	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.938431 °	38.938431 °	
			-121.829350 °	-121.829350 °	
DWR ID	DWR_RD1500_01_f_2014_98				
Action/Comments					
Inspector Comments: FS_ID:28603 EP_NO: 10057 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Plant was working during field visit. Leaky pipe near pump.					

No Photos

LM Start	25.17	Rating **	M	Issue No.	69
LM End	25.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.944340 °	38.944340 °	
			-121.835790 °	-121.835790 °	
DWR ID	DWR_RD1500_01_f_2013_69				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 2 : FA_2014_RD1500_189_69_20141014_00057.jpg



Multiple rodent burrows on landside slope. Fall 2013

LM Start	25.17	Rating **	M	Issue No.	69 (cont)
LM End	25.17	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_RD1500_189_69_20141014_00058.jpg



A rodent burrow on the landside Fall 2013

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	26.68	Rating **	C	Issue No.	97
LM End	26.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.962921 °	38.962921 °	
			-121.832469 °	-121.832469 °	
DWR ID	DWR_RD1500_01_f_2012_97				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: unable to tell grasses too tall					

No Photos

LM Start	26.84	Rating **	C	Issue No.	1350
LM End	29.93	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.964870 °	38.989449 °	
			-121.833676 °	-121.800660 °	
DWR ID	DWR_RD1500_01_s_2014_1350				
Action/Comments					
Keep the crown roadway free of vegetation.					

No Photos

LM Start	26.84	Rating **	C	Issue No.	982
LM End	27.07	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.964850 °	38.968083 °	
			-121.833595 °	-121.833593 °	
DWR ID	DWR_RD1500_01_s_2012_982				
Action/Comments					
Ditch					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	26.84	Rating **	M	Issue No.	99
LM End	26.84	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.964915 °	38.964915 °	
			-121.833675 °	-121.833675 °	
DWR ID	DWR_RD1500_01_f_2014_99				
Action/Comments					
Inspector Comments: FS_ID:28629 EP_NO: 10057 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: May need proper abandonment. FIELD_STRUCT_DESC: Abandoned 24-inch pipe through levee, 7.1 feet below the crown, slant pump on WS. O&M Manual Sac 128, March 1960. (ABO No. 10057) FS Date: 1/15/2014					

No Photos

LM Start	26.84	Rating **	M	Issue No.	100
LM End	26.84	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.964931 °	38.964931 °	
			-121.833682 °	-121.833682 °	
DWR ID	DWR_RD1500_01_f_2014_100				
Action/Comments					
Inspector Comments: FS_ID:28628 EP_NO: 10057 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: May need proper abandonment. FIELD_STRUCT_DESC: Abandoned 30-inch pipe through levee, 7.1 feet below the crown, pump on WS. O&M Manual Sac 128, March 1960. (ABO No. 10057) FS Date: 1/15/2014					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	27.06	Rating **	M	Issue No.	101
LM End	27.06	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.968093 °	38.968093 °	
			-121.833708 °	-121.833708 °	
DWR ID	DWR_RD1500_01_f_2014_101				
Action/Comments					
Inspector Comments: FS_ID:28631 EP_NO: 10052 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Obstructed siphon breaker. Leaky pump. FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through levee, 7.1 feet below crown. 2-inch conduit through levee, 5.5 feet below crown. Wood walkway to slant pump and gate valve on wooden pump platform mounted on steel pile structure on berm. Siphon breaker in 24-inch CM riser on landward slope. Meter pole at landward toe. (ABO No. 10052 - Lamb) (RM 112.29) O&M Manual Sac 128, March 1960. FS Date: 1/15/2014					

No Photos

LM Start	27.63	Rating **	M	Issue No.	983
LM End	27.78	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.972440 °	38.972848 °	
			-121.825892 °	-121.823098 °	
DWR ID	DWR_RD1500_01_s_2012_983				
Action/Comments					
Ditch					

Photo 1 of 2 : FA_2014_RD1500_189_983_20141014_00089.jpg



Agricultural ditch, photo taken in spring 2010.

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	27.63	Rating **	M	Issue No.	983 (cont)
LM End	27.78	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.972440 °	38.972848 °	
			-121.825892 °	-121.823098 °	
DWR ID	DWR_RD1500_01_s_2012_983				
Action/Comments					
Ditch					

Photo 2 of 2 : FA_2014_RD1500_189_983_20141014_00090.jpg



The agricultural ditch runs along the toe of the levee. Spring 2014

LM Start	28.57	Rating **	M	Issue No.	38
LM End	29.60	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.983081 °	38.988512 °	
			-121.819924 °	-121.806463 °	
DWR ID	DWR_RD1500_01_s_2012_38				
Action/Comments					
Ditch					

Photo 1 of 2 : FA_2014_RD1500_189_38_20141014_00037.jpg



The agricultural ditch runs along the toe of the levee, photo taken spring 2012.

LM Start	28.57	Rating **	M	Issue No.	38 (cont)
LM End	29.60	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2014_RD1500_189_38_20141014_00038.jpg



A current view of the agricultural ditch along the toe. Spring 2014

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	29.31	Rating **	A/W	Issue No.	84
LM End	29.54	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.988078 °	38.988595 °	
			-121.811692 °	-121.807532 °	
DWR ID	DWR_RD1500_01_s_2012_84				
Action/Comments					
Environmental Requirements.					

Photo 1 of 2 : FA_2014_RD1500_189_84_20141014_00069.jpg



A photo of the revegetation site.

LM Start	29.31	Rating **	A/W	Issue No.	84 (cont)
LM End	29.54	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2014_RD1500_189_84_20141014_00070.jpg



Another revegetation site on the waterside berm, photo taken spring 2012.

LM Start	30.28	Rating **	U	Issue No.	102
LM End	30.28	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.993006 °	38.993006 °	
			-121.796025 °	-121.796025 °	
DWR ID	DWR_RD1500_01_f_2014_102				
Action/Comments					
Inspector Comments: FS_ID:28707 EP_NO: 10054 Repair Type: Urgent Crossing Status: Found UCIP Comments: Levee slope erosion due to leakage from siphon break Water leaking from pipe near distribution box on landside					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	30.29	Rating **	U	Issue No.	103
LM End	30.29	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.993006 °	38.993006 °
				-121.796025 °	-121.796025 °
DWR ID	DWR_RD1500_01_f_2014_103				
Action/Comments					
Inspector Comments: FS_ID:28164 EP_NO: 10054 Repair Type: Urgent Crossing Status: Found UCIP Comments: Levee slope erosion due to leakage from siphon breaker. Water leaking from pipe near distribution box on landside levee to overhead powerline. FIELD_STRUCT_DESC: 2 of 2: 16-inch steel irrigation pipe through levee, 5.0 feet below crown. Siphon breaker in 24-inch CM riser on landward shoulder. 20-inch steel irrigation pipe through levee, 5.0 feet below crown. Siphon breaker in 24-inch CM riser on landward shoulder. Slant pumps in CM pump house mounted on steel pile structure on the berm 4 foot by 7 foot concrete inspection box for Hersey-Sparling water meter on berm in front of pump house. Flap gates in 9.7 foot by 10.6 foot O.D. concrete distribution box at landward toe. (ABO No. 10054 - Larner) O&M Manual Sac 128, March 1960. FS Date: 1/15/2014					

No Photos

LM Start	30.45	Rating **	U	Issue No.	104
LM End	30.45	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.994988 °	38.994988 °
				-121.794484 °	-121.794484 °
DWR ID	DWR_RD1500_01_f_2014_104				
Action/Comments					
Inspector Comments: FS_ID:28163 EP_NO: 6169 Repair Type: Urgent Crossing Status: Found UCIP Comments: Leaky pump and excessive vegetation observed along pipe alignment on waterside slope of the levee. It needs more investigations. May have new permit for slant pump. FIELD_STRUCT_DESC: 30-inch reinforced concrete encased steel irrigation pipe through levee, 15.5 feet below crown. Slant pump and switch panel on steel pile structure at edge of berm. Slide gate in 2.5 foot by 3.5 foot I.D. concrete box on berm. 6 foot by 8 foot concrete distribution box at landward toe. 2-inch conduit through levee, 2.5 feet below crown. (App. No. 6169 - Butler) Pipe through levee was initially installed in 1952. O&M Manual Sac 128, March 1960. FS Date: 1/15/2014					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	30.60	Rating **	M	Issue No.	45
LM End	30.60	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.996980 °	38.996980 °	
			-121.794723 °	-121.794723 °	
DWR ID	DWR_RD1500_01_s_2012_45				
Action/Comments					
Landscaping					

Photo 1 of 1 : FA_2014_RD1500_189_45_20141014_00040.jpg



The groundcover in the landscape makes it hard to see the levee slope.

LM Start	30.91	Rating **	M	Issue No.	29
LM End	30.91	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	USACE Erosion Survey		38.999745 °	39.001413 °	
			-121.800898 °	-121.802889 °	
DWR ID	DWR_RD1500_01_f_2014_29				
Action/Comments					
Inspector Comments: 2000 - Eroding, vertical berm slope over a vertical cohesive toe; slow erosion but getting close to the toe. 2002 - Erosion is getting close to the levee, still eroding with some new small slumps. 2004 - Some minor new erosion. 2006 - Some new erosion, cleaned off older scars and slump faces. 2008 - New, small, partial rotational failure. 2011 - Some new minor erosion. 2013: No observed changes. [2013 Site ID: SAC_116-0_L]					

Photo 1 of 1 : FA_2014_RD1500_189_29_20141014_00027.jpg



USACE 2013 Photo #1

LM Start	31.26	Rating **	M	Issue No.	105
LM End	31.26	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.002960 °	39.002960 °	
			-121.803736 °	-121.803736 °	
DWR ID	DWR_RD1500_01_f_2014_105				
Action/Comments					
Inspector Comments: FS_ID:28144 EP_NO: 15916 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Surface erosion due to leaky pressure breaker on landside slope. FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through levee. Siphon breaker in 24-inch CM riser on landward slope. Discharges into 6 foot by 8 foot I.D. concrete distribution box at landward toe. (App. No. 15916 - Butler) 18-inch replaced original 12-inch pipe (10034 - Butler) FS Date: 1/15/2014					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	31.38	Rating **	M	Issue No.	34
LM End	31.38	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.003301 °	39.006072 °
				-121.805024 °	-121.815926 °
DWR ID	DWR_RD1500_01_f_2014_34				
Action/Comments					
Inspector Comments: 2003 - New sedimentation and some new small toe scallops at the upstream end; downstream end has some new erosion. 2004 - Some new erosion at the toe and upper bank and some small new rotational failures (mainly minor, except at the downstream end). 2007 - Some new slumps. 2009 - Some new scallops and site was extended upstream. 2010 - New deposition along upstream end of site, however there is also new erosion throughout the site. Site seems to be worsening, and eroding fast. Large habitat for bank swallows. 2011 - Some new minor erosion. 2012 - Minor new erosion. 2013: No observed changes. [2013 Site ID: SAC_116-5_L]					

Photo 1 of 1 : FA_2014_RD1500_189_34_20141014_00032.jpg



USACE 2013 Photo #1

LM Start	31.63	Rating **	C	Issue No.	1351
LM End	33.05	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.005662 °	39.016397 °
				-121.809345 °	-121.822857 °
DWR ID	DWR_RD1500_01_s_2014_1351				
Action/Comments					
Keep the crown roadway free of vegetation.					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	31.94	Rating **	A/W	Issue No.	86
LM End	31.94	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Underseepage Relief Wells		39.006722 °	39.006722 °	
			-121.814752 °	-121.814752 °	
DWR ID	DWR_RD1500_01_s_2012_86				
Action/Comments					

Photo 1 of 1 : FA_2014_RD1500_189_86_20141014_00071.jpg



The control unit for pizometers installed in 2012, photo taken spring 2012.

LM Start	32.02	Rating **	M	Issue No.	106
LM End	32.02	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.006484 °	39.006484 °	
			-121.816168 °	-121.816168 °	
DWR ID	DWR_RD1500_01_f_2014_106				
Action/Comments					
Inspector Comments: FS_ID:28143 EP_NO: 9657 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Looks abandoned. May need proper abandonment. FIELD_STRUCT_DESC: Abandoned 20-inch diameter steel pipe through levee, 15.0 feet below crown. Pump on elevated structure. Slide gate in riser, concrete surge box on waterward slope. Switch panel on berm. (App. Nos. 13536 & 13941 - Niechen 10/82) Discharges into 36-inch I.D. concrete standpipe on landward side. (App. No. 9657 ABO No. 10030 - Bell) O&M Manual Sac 128, March 1960. FS Date: 1/15/2014					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	32.83	Rating **	M	Issue No.	60
LM End	33.00	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.013720 °	39.015640 °	
			-121.825038 °	-121.823397 °	
DWR ID	DWR_RD1500_01_s_2012_60				
Action/Comments					
Ditch					

Photo 1 of 1 : FA_2014_RD1500_189_60_20141014_00052.jpg



Older, unused agricultural ditch. Tree stump needs to be removed.

LM Start	32.97	Rating **	M	Issue No.	107
LM End	32.97	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.015277 °	39.015277 °	
			-121.823735 °	-121.823735 °	
DWR ID	DWR_RD1500_01_f_2014_107				
Action/Comments					
Inspector Comments: FS_ID:28943 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe leaks near pump through a hole in the pipe. Needs repair in electric conduit through the levee. Concrete distribution box on landside levee toe. Slide gate in CMP on waterside slope. FIELD_STRUCT_DESC: 30-inch pipe and electric conduit through levee, 14.3 feet below the crown, Pump and headwall on waterside. Slide gate in CMP on waterside slope. Electric control box on waterside. Concrete distribution box on landside levee toe. O&M Manual Sac 128, March 1960. FS Date: 1/15/2014					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	33.39	Rating **	M	Issue No.	46
LM End	33.39	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.020550 °	39.020550 °	
			-121.820315 °	-121.820315 °	
DWR ID	DWR_RD1500_01_s_2012_46				
Action/Comments					
Building					

Photo 1 of 1 : FA_2014_RD1500_189_46_20141014_00041.jpg



The building is within the easement of the levee toe.

LM Start	33.41	Rating **	A	Issue No.	48
LM End	33.41	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.020875 °	39.020875 °	
			-121.820273 °	-121.820273 °	
DWR ID	DWR_RD1500_01_s_2012_48				
Action/Comments					
Building Inspector Comments: Pumping Plant Intake structure					

Photo 1 of 1 : FA_2014_RD1500_189_48_20141014_00043.jpg



The buildings are on the waterside of the crown. Control buildings for the pumping plant.

LM Start	33.41	Rating **	A	Issue No.	47
LM End	33.41	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.020875 °	39.020875 °	
			-121.820272 °	-121.820272 °	
DWR ID	DWR_RD1500_01_s_2012_47				
Action/Comments					
Building					

Photo 1 of 1 : FA_2014_RD1500_189_47_20141014_00042.jpg



The building is the pumping plant for Sutter Municipal.

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/23/2014 10/23/2014	Clay Thomas

LM Start	33.56	Rating **	M	Issue No.	108
LM End	33.56	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.022938 °	39.022938 °
				-121.820717 °	-121.820717 °
DWR ID	DWR_RD1500_01_f_2014_108				
Action/Comments					
Inspector Comments: FS_ID:28953 EP_NO: 5617 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not found- slide gate in 54 inch corrugated metal riser on waterside berriTwo 16-inch steel pipes (looks new). Leaky pipe near pump plant was working during field visNeeds more info from LMA. There may be a new permit. FIELD_STRUCT_DESC: 1 of 2. Two 16-inch steel irrigation pipes and conduit through levee, 19.0 feet below crown. Two slant pumps on elevated pump platform on waterside. Gate valves and concrete headwall at landward berm. Meter pole at toe. Discharges into landside ditch. 1-3/4 conduit through levee. (App. No. 5617- Oji Bros.) O&M Manual Sac 128, March 1960. FS Date: 1/15/2014					

No Photos

LM Start	33.56	Rating **	M	Issue No.	109
LM End	33.56	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.022956 °	39.022956 °
				-121.820716 °	-121.820716 °
DWR ID	DWR_RD1500_01_f_2014_109				
Action/Comments					
Inspector Comments: FS_ID:28952 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not found- slide gate in 54 inch corrugated metal riser on waterside berriTwo 16-inch steel pipes (looks new). Leaky pipe near pump plant was working during field visNeeds more info from LMA. There may be a new permit. FIELD_STRUCT_DESC: 2 of 2. Two 16-inch steel irrigation pipe through the levee. Two slant pumps on steel platform and under the shed. Two air vents on waterside levee shoulder. Two pipes with gate valves discharge water into irrigation ditch. Service pole on landside toe. Previously only a 30-inch steel pipe through the levee and slide gate in CMP riser on waterside. FS Date: 1/15/2014					

No Photos

* Location LS : Land Side N/A : Not Applicable 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**

Unit Cover Sheet

Fall 2014 Levee Inspection Results

Reclamation District No. 1500 Sutter Basin

Waterway		Bank	Unit Miles	
Unit No. 02 Sutter Bypass		Right	20.72	
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	04/22/2014 - 04/22/2014		10/23/2014 - 10/23/2014	
DWR Inspector	John Williamson		Clay Thomas	
Accompanied By				

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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/23/2014 10/23/2014	Clay Thomas

LM Start	0.00	Rating **	A	Issue No.	2
LM End	20.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation			°	°
DWR ID	DWR_RD1500_02_f_2014_2				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA_2014_RD1500_190_2_20141030_00020.jpg



Levee mile 16.71, vegetation on the water side slope. Fall 2014

LM Start	0.00	Rating **	A	Issue No.	3
LM End	20.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation			°	°
DWR ID	DWR_RD1500_02_f_2014_3				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA_2014_RD1500_190_3_20141030_00021.jpg



Levee mile 16.71, vegetation on the land side slope. Fall 2014.

LM Start	0.00	Rating **	M	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.761121	°	38.761121
			-121.674592	°	-121.674592
DWR ID	DWR_RD1500_02_s_2012_12				
Action/Comments					
Equipment					

Photo 1 of 2 : FA_2014_RD1500_190_12_20141014_00008.jpg



Farm equipment is parked on the levee slope. Photo fall 2012.

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/23/2014 10/23/2014	Clay Thomas

LM Start	0.00	Rating **	M	Issue No.	12 (cont)
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.761121 °	38.761121 °	
			-121.674592 °	-121.674592 °	
DWR ID	DWR_RD1500_02_s_2012_12				
Action/Comments					
Equipment					

Photo 2 of 2 : FA_2014_RD1500_190_12_20141014_00009.jpg



Farm equipment is on the levee crown. Spring 2014

LM Start	0.16	Rating **	M	Issue No.	302
LM End	1.86	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.762750 °	38.782985 °	
			-121.672501 °	-121.655599 °	
DWR ID	DWR_RD1500_02_s_2014_302				
Action/Comments					
Keep the crown roadway free of vegetation.					

Photo 1 of 1 : FA_2014_RD1500_190_302_20141014_00016.jpg



Maintain unwanted vegetation on the levee crown Spring 2014

LM Start	0.24	Rating **	C	Issue No.	303
LM End	0.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.763484 °	38.763484 °	
			-121.671540 °	-121.671540 °	
DWR ID	DWR_RD1500_02_s_2014_303				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/23/2014 10/23/2014	Clay Thomas

LM Start	2.02	Rating **	C	Issue No.	304
LM End	6.67	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.785361 °	38.850023 °	
			-121.654617 °	-121.653874 °	
DWR ID	DWR_RD1500_02_s_2014_304				
Action/Comments					
Keep the crown roadway free of vegetation.					

No Photos

LM Start	3.34	Rating **	C	Issue No.	1
LM End	3.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.803810 °	38.803810 °	
			-121.657095 °	-121.657095 °	
DWR ID	DWR_RD1500_02_f_2013_1				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Unable to see; the grass are too tall.					

No Photos

LM Start	3.42	Rating **	C	Issue No.	6
LM End	3.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.804993 °	38.804993 °	
			-121.657523 °	-121.657523 °	
DWR ID	DWR_RD1500_02_f_2013_6				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Unable to see; the grass are too tall.					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/23/2014 10/23/2014	Clay Thomas

LM Start	3.98	Rating **	C	Issue No.	8
LM End	3.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.812725 °	38.812725 °	
			-121.660802 °	-121.660802 °	
DWR ID	DWR_RD1500_02_f_2013_8				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Unable to see; the grass are too tall.					

No Photos

LM Start	4.16	Rating **	C	Issue No.	19
LM End	4.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.815070 °	38.815070 °	
			-121.661787 °	-121.661787 °	
DWR ID	DWR_RD1500_02_f_2013_19				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Unable to see; the grass are too tall.					

No Photos

LM Start	6.23	Rating **	C	Issue No.	20
LM End	6.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.843900 °	38.843900 °	
			-121.656275 °	-121.656275 °	
DWR ID	DWR_RD1500_02_f_2013_20				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Unable to see; the grass are too tall.					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/23/2014 10/23/2014	Clay Thomas

LM Start	7.18	Rating **	C	Issue No.	305
LM End	10.57	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.857051 °	38.902850 °	
			-121.651108 °	-121.638295 °	
DWR ID	DWR_RD1500_02_s_2014_305				
Action/Comments					
Keep the crown roadway free of vegetation.					

No Photos

LM Start	14.22	Rating **	A/W	Issue No.	4
LM End	14.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Underseepage Relief Wells		38.947582 °	38.947582 °	
			-121.669740 °	-121.669740 °	
DWR ID	DWR_RD1500_02_s_2012_4				
Action/Comments					

Photo 1 of 1 : FA_2014_RD1500_190_4_20141014_00002.jpg



The relief well at boil 12, photo taken spring 2012.

LM Start	14.40	Rating **	U	Issue No.	10
LM End	14.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Underseepage Relief Wells		38.949640 °	38.949640 °	
			-121.671947 °	-121.671947 °	
DWR ID	DWR_RD1500_02_s_2012_10				
Action/Comments					
Inspector Comments: Fall 2013, work has been done on the seepage well. Unsure if it operates properly. Spring 2014 unable to find may have been removed.					

Photo 1 of 2 : FA_2014_RD1500_190_10_20141014_00005.jpg



The pieces of the puzzle have been placed back. Unsure if repaired. Fall 2013

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	Issue Type 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/23/2014 10/23/2014	Clay Thomas

LM Start	14.40	Rating **	U	Issue No.	10 (cont)
LM End	14.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Underseepage Relief Wells		38.949640 °	38.949640 °	
			-121.671947 °	-121.671947 °	
DWR ID	DWR_RD1500_02_s_2012_10				
Action/Comments					
Inspector Comments: Fall 2013, work has been done on the seepage well. Unsure if it operates properly. Spring 2014 unable to find may have been removed.					

Photo 2 of 2 : FA_2014_RD1500_190_10_20141014_00006.jpg



The seepage well and pad needs to be repaired, Spring 2013

LM Start	14.56	Rating **	A/W	Issue No.	11
LM End	14.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Underseepage Relief Wells		38.951398 °	38.951398 °	
			-121.673827 °	-121.673827 °	
DWR ID	DWR_RD1500_02_s_2012_11				
Action/Comments					

Photo 1 of 1 : FA_2014_RD1500_190_11_20141014_00007.jpg



A relief well at boil 16, photo taken spring 2012.

LM Start	18.24	Rating **	A/W	Issue No.	13
LM End	18.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Underseepage Relief Wells		38.987092 °	38.987092 °	
			-121.725097 °	-121.725097 °	
DWR ID	DWR_RD1500_02_s_2012_13				
Action/Comments					

Photo 1 of 2 : FA_2014_RD1500_190_13_20141014_00010.jpg



Two of five drains on the landside berm. Photo fall 2012.

* Location LS : Land Side N/A : Not Applicable 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 2014

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/23/2014 10/23/2014	Clay Thomas

LM Start	18.24	Rating **	A/W	Issue No.	13 (cont)
LM End	18.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Underseepage Relief Wells		38.987092 °	38.987092 °	
			-121.725097 °	-121.725097 °	
DWR ID	DWR_RD1500_02_s_2012_13				
Action/Comments					

Photo 2 of 2 : FA_2014_RD1500_190_13_20141014_00011.jpg



Toe drainage systems along the toe berm four total, photo taken spring 2012.

LM Start	18.48	Rating **	A/W	Issue No.	15
LM End	18.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Underseepage Relief Wells		38.989813 °	38.989813 °	
			-121.727763 °	-121.727763 °	
DWR ID	DWR_RD1500_02_s_2012_15				
Action/Comments					

Photo 1 of 2 : FA_2014_RD1500_190_15_20141014_00012.jpg



Another toe drainage system close by, photo taken spring 2012.

LM Start	18.48	Rating **	A/W	Issue No.	15 (cont)
LM End	18.48	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_RD1500_190_15_20141014_00013.jpg



A toe drainage system at the toe berm, photo taken spring 2012.

* Location LS : Land Side N/A : Not Applicable 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
--	--	---	---