

**Flood Control Project Maintenance
Levee Inspections**

Fall 2014 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD2031	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.						
Reclamation District No. 2031 Elliot	M *	13.05							
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation	0.27		0.27	2.07%	0.21	0.02			
Trim / Thin Trees	0.62		0.62	4.75%					
Encroachments	0.01		0.01	0.08%	0.70	0.39			
Animal Control	0.03	0.01	0.07	0.54%					
Erosion / Bank Caving	0.03		0.03	0.23%				0.02	
Crown Surface / Depressions / Rutting	0.07		0.07	0.54%					
Seepage / Sandboils								0.01	
<i>Interior Drainage & Piping Systems</i>									
Flap Gates						0.01			
<i>Supplemental</i>									
DWR Erosion Survey	0.04		0.04	0.31%					
DWR UCIP Field Study					0.22				
<i>LMA Totals:</i>	1.07	0.01	1.11	8.50% *	1.13	0.42	0.00	0.03	

Unit No. 01 Stanislaus River LB	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.						
RD2031	M *	7.07							
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	0.26		0.26	3.68%	0.21				
Encroachments	0.01		0.01	0.14%	0.42	0.38			
Animal Control	0.03	0.01	0.07	0.99%					
Erosion / Bank Caving	0.03		0.03	0.42%					
Crown Surface / Depressions / Rutting	0.07		0.07	0.99%					
<i>Interior Drainage & Piping Systems</i>									
Flap Gates						0.01			
<i>Supplemental</i>									
DWR Erosion Survey	0.04		0.04	0.57%					
DWR UCIP Field Study					0.14				
<i>Unit Totals:</i>	0.44	0.01	0.48	6.79% *	0.77	0.39	0.00	0.00	

Unit No. 02 San Joaquin River RB	Overall Unit Rating	Total Unit Miles							
RD2031	M	5.98							
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	0.01		0.01	0.17%		0.02			
Trim / Thin Trees	0.62		0.62	10.37%					
Encroachments					0.28	0.01			
Erosion / Bank Caving								0.02	
Seepage / Sandboils								0.01	
<i>Supplemental</i>									
DWR UCIP Field Study					0.08				
<i>Unit Totals:</i>	0.63	0.00	0.63	10.54%	0.36	0.03	0.00	0.03	

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

Reclamation District No. 2031 Elliot

	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. 2031 Elliot

Waterway		Bank	Unit Miles	
Unit No. 01 Stanislaus River		Left	7.07	
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	05/08/2014 - 05/08/2014		11/04/2014 - 11/04/2014	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Bob Buckmaster		Bob Buckmaster RD2031 Elliott	

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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_RD2031_01_s_2013_5				
Action/Comments					
Inspector Comments: LMA has a flood response plan.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_RD2031_01_s_2013_6				
Action/Comments					
Inspector Comments: Supplies available on-site.					

No Photos

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_RD2031_01_s_2013_12				
Action/Comments					
Inspector Comments: O&M Manual available at the office.					

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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	0.00	Rating **	M	Issue No.	963
LM End	0.06	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.710001 °	37.709951 °	
			-121.155391 °	-121.156539 °	
DWR ID	DWR_RD2031_01_s_2012_963				
Action/Comments					
Fence Inspector Comments: Wooden and steel livestock fence and debris limit access to slope.					

Photo 1 of 1 : FA_2014_RD2031_307_963_20141001_00039.jpg



Fall 2009 photo looking upstream at beginning of unit 1. Water side to the left.

LM Start	0.04	Rating **	U	Issue No.	122
LM End	0.04	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.710016 °	37.710016 °	
			-121.155803 °	-121.155803 °	
DWR ID	DWR_RD2031_01_s_2014_122				
Action/Comments					
Debris					

Photo 1 of 1 : FA_2014_RD2031_307_122_20141001_00034.jpg



View of the pipe of debris on the waterside levee slope.

LM Start	0.06	Rating **	M	Issue No.	50
LM End	0.06	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.709950 °	37.709950 °	
			-121.156540 °	-121.156540 °	
DWR ID	DWR_RD2031_01_f_2013_50				
Action/Comments					
Fence Inspector Comments: Unpermitted gates at waterside levee hinge.					

Photo 1 of 1 : FA_2014_RD2031_307_50_20141001_00032.jpg



View of the gate at the waterside levee hinge.

* 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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	0.15	Rating **	A/W	Issue No.	30
LM End	0.15	Issue Type +	Ob	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.708780 °	37.708780 °	
			-121.156830 °	-121.156830 °	
DWR ID	DWR_RD2031_01_s_2012_30				
Action/Comments					
Pipe					

Photo 1 of 1 : FA_2014_RD2031_307_30_20141001_00020.jpg



View of the pipe in landward slope of levee facing downstream.

LM Start	0.34	Rating **	U	Issue No.	7
LM End	0.52	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.706148 °	37.704030 °	
			-121.157975 °	-121.159653 °	
DWR ID	DWR_RD2031_01_s_2012_7				
Action/Comments					
Fence Inspector Comments: Fence appears to be completed without CVFPB approval.					

Photo 1 of 3 : FA_2014_RD2031_307_7_20141001_00007.jpg



05/10/2011 Fence on waterside prevents access to waterside slope.

LM Start	0.34	Rating **	U	Issue No.	7 (cont)
LM End	0.52	Issue Type +	En	Location *	WS

Photo 2 of 3 : FA_2014_RD2031_307_7_20141001_00008.jpg



View of fence obstructing access to waterside slope. Facing upstream.

* 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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	0.34	Rating **	U	Issue No.	7 (cont)
LM End	0.52	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.706148 °	37.704030 °	
			-121.157975 °	-121.159653 °	
DWR ID	DWR_RD2031_01_s_2012_7				
Action/Comments					
Fence Inspector Comments: Fence appears to be completed without CVFPB approval.					

Photo 3 of 3 : FA_2014_RD2031_307_7_20141001_00009.jpg



View of fence on waterside slope facing downstream.

LM Start	0.45	Rating **	U	Issue No.	14
LM End	0.52	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.704927 °	37.703788 °	
			-121.158860 °	-121.159923 °	
DWR ID	DWR_RD2031_01_f_2012_14				
Action/Comments					
Fence Inspector Comments: It appears the fence was completed without CVFPB approval.					

Photo 1 of 2 : FA_2014_RD2031_307_14_20141001_00014.jpg



View of fence on landside levee shoulder obstructing access to landside slope. Facing upstream.

LM Start	0.45	Rating **	U	Issue No.	14 (cont)
LM End	0.52	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2014_RD2031_307_14_20141001_00015.jpg



View of fence on landside levee shoulder facing downstream.

* 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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	0.46	Rating **	U	Issue No.	32
LM End	0.46	Issue Type +	En	Location *	WS
Category	Interior Drainage & Piping Systems		GPS Latitude/Longitude		
			Start	End	
Item	Flap Gates		37.704772 °	37.704772 °	
			-121.158990 °	-121.158990 °	
DWR ID	DWR_RD2031_01_s_2013_32				
Action/Comments					
Inspector Comments: Canal outlet has no flap gate on waterward side.					

Photo 1 of 1 : FA_2014_RD2031_307_32_20141104_00057.jpg



View of canal outlet on waterward slope facing downstream.

LM Start	0.47	Rating **	M	Issue No.	1
LM End	0.50	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.704740 °	37.704740 °	
			-121.159140 °	-121.159140 °	
DWR ID					
Action/Comments					
Inspector Comments: 07/31/2014: No significant change observed. 09/10/2013: No significant change observed. 07/18/2012: No significant change observed. 08/18/2011: No significant change observed on site. Debris that blocks the irrigation outlet is visible. 10/19/2010: No significant change observed on site. Sloughing of the bank is occurring adjacent to an irrigation outlet structure. There is moderate to heavy vegetation along the bank that is well established. Broken chunks and slabs of concrete are used as rip rap and line the outside of the irrigation outlet structure. However, much of the rip rap along the slope is sloughing and could possibly lead to future slope instability. 08/05/2010: Recommended as a local maintenance issue, per CLRO. 08/20/2009: No major change observed since last visit; 1 inch fissure cracks developing on the slope; rip rap is showing signs of sloughing; recommend as local maintenance issue; site was previously rated "U". 2008: No change from previous year; irrigation outlet located on site; rip rap placed on river bank. 09/06/2007: Near agricultural diversion; only 3' landside height differential. [2014 Site ID:RD2031U01RM0.48]					

Photo 1 of 1 : SJR2014_RD2031U01RM0.48_1.jpg



Looking down at the site. The irrigation outlet is operating. Debris is visible at the outlet.

* 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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	0.47	Rating **	M	Issue No.	125
LM End	0.47	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.704537 °	37.704537 °	
			-121.159041 °	-121.159041 °	
DWR ID	DWR_RD2031_01_s_2014_125				
Action/Comments					
Pipe Inspector Comments: PVC Standpipe at landside levee toe.					

Photo 1 of 1 : FA_2014_RD2031_307_125_20141001_00035.jpg



View of the PVC standpipe at the landside levee toe.

LM Start	0.52	Rating **	M	Issue No.	2
LM End	0.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.704050 °	37.704050 °	
			-121.159578 °	-121.159578 °	
DWR ID	DWR_RD2031_01_s_2012_2				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 2 : FA_2014_RD2031_307_2_20141001_00002.jpg



View of vegetation on waterside slope. Facing upstream.

LM Start	0.52	Rating **	M	Issue No.	2 (cont)
LM End	0.52	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2014_RD2031_307_2_20141001_00003.jpg



10/26/2011 Updated photo of waterside vegetation.

* 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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	0.55	Rating **	U	Issue No.	969
LM End	0.65	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.703626 °	37.702648 °	
			-121.159714 °	-121.160700 °	
DWR ID	DWR_RD2031_01_s_2012_969				
Action/Comments					
Building Inspector Comments: Corrals and house on levee slope and crown. Demolition in progress.					

Photo 1 of 1 : FA_2014_RD2031_307_969_20141001_00040.jpg



View of the new coral at the landside levee slope and toe.

LM Start	0.57	Rating **	M	Issue No.	126
LM End	0.57	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.703394 °	37.703394 °	
			-121.159713 °	-121.159713 °	
DWR ID	DWR_RD2031_01_s_2014_126				
Action/Comments					
Material Inspector Comments: Levee built up with material from adjacent field. Unpermitted. The landowner has contacted CVFPB and started the permitting process.					

Photo 1 of 1 : FA_2014_RD2031_307_126_20141001_00036.jpg



View of the material placed on the waterside levee slope to build up the levee and increase the levee crown.

LM Start	0.57	Rating **	A/W	Issue No.	16
LM End	0.57	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.703120 °	37.703120 °	
			-121.159798 °	-121.159798 °	
DWR ID	DWR_RD2031_01_f_2012_16				
Action/Comments					
Pipe Inspector Comments: It appears that the pipe is in good condition and slide gate is operational.					

Photo 1 of 2 : FA_2014_RD2031_307_16_20141001_00016.jpg



View of the pipe gate valve location.

* 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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	0.57	Rating **	A/W	Issue No.	16 (cont)
LM End	0.57	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.703120 °	37.703120 °	
			-121.159798 °	-121.159798 °	
DWR ID	DWR_RD2031_01_f_2012_16				
Action/Comments					
Pipe Inspector Comments: It appears that the pipe is in good condition and slide gate is operational.					

Photo 2 of 2 : FA_2014_RD2031_307_16_20141001_00017.jpg



View of slide gate and access ladder. Gate appears to be in good condition.

LM Start	0.59	Rating **	M	Issue No.	58
LM End	0.64	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.703186 °	37.702786 °	
			-121.160211 °	-121.160628 °	
DWR ID	DWR_RD2031_01_f_2014_58				
Action/Comments					
Fence Inspector Comments: Unpermitted fence on landside levee hinge.					

Photo 1 of 1 : FA_2014_RD2031_307_58_20141104_00058.jpg



View of the unpermitted fence on the landside levee hinge.

LM Start	0.64	Rating **	M	Issue No.	4
LM End	0.71	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.702814 °	37.701875 °	
			-121.160562 °	-121.161670 °	
DWR ID	DWR_RD2031_01_s_2012_4				
Action/Comments					
Fence					

Photo 1 of 1 : FA_2014_RD2031_307_4_20141001_00006.jpg



View of the fence at 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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	0.65	Rating **	M	Issue No.	35
LM End	0.65	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.702643 °	37.702643 °	
			-121.160867 °	-121.160867 °	
DWR ID	DWR_RD2031_01_s_2012_35				
Action/Comments					
Debris Inspector Comments: Tractor wheels on slope of landside levee.					

Photo 1 of 1 : FA_2014_RD2031_307_35_20141001_00023.jpg



View of tractor wheels on landward slope. 05/02/2012

LM Start	0.71	Rating **	U	Issue No.	127
LM End	0.71	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.702051 °	37.702051 °	
			-121.161502 °	-121.161502 °	
DWR ID	DWR_RD2031_01_s_2014_127				
Action/Comments					
Material Inspector Comments: Remove concrete stockpile from the levee toe easement.					

Photo 1 of 1 : FA_2014_RD2031_307_127_20141001_00037.jpg



View of the concrete debris stockpiled at the landside levee toe.

LM Start	0.72	Rating **	M	Issue No.	972
LM End	0.77	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.701906 °	37.701370 °	
			-121.161661 °	-121.161986 °	
DWR ID	DWR_RD2031_01_s_2012_972				
Action/Comments					
Ditch					

Photo 1 of 1 : FA_2014_RD2031_307_972_20141001_00041.jpg



View of the ditch on landside levee toe, facing downstream.

* 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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	0.78	Rating **	M	Issue No.	36
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.701177 °	37.701177 °	
			-121.162055 °	-121.162055 °	
DWR ID	DWR_RD2031_01_f_2012_36				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD2031_307_36_20141001_00024.jpg



View of rodent burrows on landside slope.

LM Start	0.81	Rating **	M	Issue No.	21
LM End	0.81	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.700853 °	37.700853 °	
			-121.162349 °	-121.162349 °	
DWR ID	DWR_RD2031_01_f_2014_21				
Action/Comments					
Inspector Comments: FS_ID:20049 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned as WS slope is covered with soil. If abandoned, it should be done so properly. FIELD_STRUCT_DESC: 24-inch steel pipe through levee 2.0-feet below the crown. Concrete headwall on both sides of levee crown. FS Date: 9/11/2013					

No Photos

LM Start	0.81	Rating **	M	Issue No.	20
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.700799 °	37.700799 °	
			-121.162418 °	-121.162418 °	
DWR ID	DWR_RD2031_01_s_2013_20				
Action/Comments					
Pipe Inspector Comments: PVC pipe present and obstructing drain pipe.					

Photo 1 of 2 : FA_2014_RD2031_307_20_20141001_00018.jpg



10/26/2011 Updated photo of PVC pipe pieces obstructing drain pipe, issue remains from Spring 2011 inspection.

* 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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	0.81	Rating **	M	Issue No.	20 (cont)
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.700799 °	37.700799 °	
			-121.162418 °	-121.162418 °	
DWR ID	DWR_RD2031_01_s_2013_20				
Action/Comments					
Pipe Inspector Comments: PVC pipe present and obstructing drain pipe.					

Photo 2 of 2 : FA_2014_RD2031_307_20_20141001_00019.jpg



05/10/2011 PVC pipe pieces are obstructing opening to drain pipe.

LM Start	0.93	Rating **	M	Issue No.	51
LM End	0.93	Issue Type +	En	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.699727 °	37.699727 °	
			-121.163919 °	-121.163919 °	
DWR ID	DWR_RD2031_01_f_2013_51				
Action/Comments					
Fence Inspector Comments: Unpermitted gate across levee crown.					

Photo 1 of 1 : FA_2014_RD2031_307_51_20141001_00033.jpg



View of the gate across levee crown.

LM Start	1.01	Rating **	M	Issue No.	59
LM End	1.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.699327 °	37.699327 °	
			-121.165364 °	-121.165364 °	
DWR ID	DWR_RD2031_01_f_2014_59				
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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	1.15	Rating **	M	Issue No.	128
LM End	1.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.698873 °	37.698873 °	
			-121.167785 °	-121.167785 °	
DWR ID	DWR_RD2031_01_s_2014_128				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD2031_307_128_20141001_00038.jpg



View of the rodent hole on the waterside levee slope.

LM Start	1.28	Rating **	M	Issue No.	22
LM End	1.28	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.699480 °	37.699480 °	
			-121.169850 °	-121.169850 °	
DWR ID	DWR_RD2031_01_f_2014_22				
Action/Comments					
Inspector Comments: FS_ID:20085 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe corroded through at distribution box. Appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 1 of 2: 12-inch steel pipe through the levee 3.3-feet below the crown. Pump missing from pile structure on the riverbank. Concrete distribution box on the landward side. Installed by USACE, 1966. Also included in 1968 O&M manual. FS Date: 9/11/2013					

No Photos

LM Start	1.56	Rating **	A/W	Issue No.	129
LM End	1.56	Issue Type +	En	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.698913 °	37.698913 °	
			-121.174155 °	-121.174155 °	
DWR ID	DWR_RD2031_01_s_2014_129				
Action/Comments					
Pipe Inspector Comments: Gravity drain irrigation pipe.					

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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	1.58	Rating **	M	Issue No.	3
LM End	1.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.698776 °	37.698776 °	
			-121.174327 °	-121.174327 °	
DWR ID	DWR_RD2031_01_s_2012_3				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Erosion is active around the irrigation standpipe.					

Photo 1 of 2 : FA_2014_RD2031_307_3_20141001_00004.jpg



View of the erosion site on landside slope, facing upstream.

LM Start	1.58	Rating **	M	Issue No.	3 (cont)
LM End	1.58	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_RD2031_307_3_20141001_00005.jpg



10/26/2011 Active erosion into the levee prism around irrigation standpipe.

LM Start	1.60	Rating **	M	Issue No.	8
LM End	1.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.698610 °	37.698610 °	
			-121.174598 °	-121.174598 °	
DWR ID	DWR_RD2031_01_s_2012_8				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Active erosion is occurring around irrigation inlet.					

Photo 1 of 1 : FA_2014_RD2031_307_8_20141001_00010.jpg



10/26/2011 Active erosion shown around irrigation inlet.

* 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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	1.63	Rating **	U	Issue No.	52
LM End	1.63	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.698334 °	37.698334 °	
			-121.175176 °	-121.175176 °	
DWR ID	DWR_RD2031_01_f_2013_52				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD2031_307_52_20141104_00059.jpg



View of the multiple large rodent hole in the waterside levee slope.

LM Start	1.65	Rating **	M	Issue No.	9
LM End	1.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.698208 °	37.698208 °	
			-121.175400 °	-121.175400 °	
DWR ID	DWR_RD2031_01_s_2012_9				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Active erosion around irrigation inlet in levee prism.					

Photo 1 of 1 : FA_2014_RD2031_307_9_20141001_00011.jpg



10/26/2011 Active erosion into levee prism around irrigation inlet.

LM Start	1.75	Rating **	C	Issue No.	53
LM End	1.75	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.697513 °	37.697513 °	
			-121.176916 °	-121.176916 °	
DWR ID	DWR_RD2031_01_f_2013_53				
Action/Comments					
Prunings					

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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	1.77	Rating **	C	Issue No.	54
LM End	1.77	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.697236 °	37.697236 °
				-121.177247 °	-121.177247 °
DWR ID	DWR_RD2031_01_f_2013_54				
Action/Comments					
Prunings					

No Photos

LM Start	1.80	Rating **	M	Issue No.	23
LM End	1.80	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.696943 °	37.696943 °
				-121.177470 °	-121.177470 °
DWR ID	DWR_RD2031_01_f_2014_23				
Action/Comments					
Inspector Comments: FS_ID:20092 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Silt buildup at inlet and outlet. FIELD_STRUCT_DESC: 2 of 2: 24-inch corrugated metal pipe through the levee 9.5-feet below the crown. Concrete "U"-shaped headwalls on both ends. Flap gate on the waterward end. Installed by USACE, 1966. Also included in the 1968 O&M manual. FS Date: 9/11/2013					

No Photos

LM Start	1.88	Rating **	M	Issue No.	25
LM End	1.88	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.695737 °	37.695737 °
				-121.177533 °	-121.177533 °
DWR ID	DWR_RD2031_01_f_2014_25				
Action/Comments					
Inspector Comments: FS_ID:20109 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: If abandoned it should be done so properly if not, the pipe should be cleared of soil blockage. FIELD_STRUCT_DESC: *Abandoned* 24-inch pipe through levee 6.8 feet below crown. Concrete headwalls on both ends. Flap gate on the waterward end. Installed by USACE, 1966. FS Date: 9/11/2013					

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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	1.88	Rating **	U	Issue No.	37
LM End	1.88	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.695867 °	37.695867 °	
			-121.177638 °	-121.177638 °	
DWR ID	DWR_RD2031_01_s_2012_37				
Action/Comments					
Crops Inspector Comments: Several bales of hay at toe of levee. LMA notified the landowner and still no compliance.					

Photo 1 of 1 : FA_2014_RD2031_307_37_20141001_00025.jpg



View of the hay bails at the landside levee toe.

LM Start	1.93	Rating **	C	Issue No.	13
LM End	2.39	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.695078 °	37.688766 °	
			-121.177504 °	-121.179538 °	
DWR ID	DWR_RD2031_01_s_2013_13				
Action/Comments					
Agricultural tilling					

No Photos

LM Start	2.02	Rating **	M	Issue No.	38
LM End	2.09	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		37.693720 °	37.692782 °	
			-121.177527 °	-121.177642 °	
DWR ID	DWR_RD2031_01_s_2012_38				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	2.17	Rating **	M	Issue No.	39
LM End	2.17	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.691687 °	37.691687 °	
			-121.178285 °	-121.178285 °	
DWR ID	DWR_RD2031_01_f_2012_39				
Action/Comments					
Crops Inspector Comments: Hay bale on waterside levee slope.					

Photo 1 of 1 : FA_2014_RD2031_307_39_20141001_00026.jpg



View of hay bales at toe of levee on waterward side, facing downstream.
05/02/2012

LM Start	2.41	Rating **	A/W	Issue No.	42
LM End	2.41	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.688623 °	37.688623 °	
			-121.179767 °	-121.179767 °	
DWR ID	DWR_RD2031_01_f_2012_42				
Action/Comments					
Pipe Inspector Comments: Flap gate is closed and appears to be operational.					

Photo 1 of 3 : FA_2014_RD2031_307_42_20141001_00027.jpg



View of the closed slide gate.

LM Start	2.41	Rating **	A/W	Issue No.	42 (cont)
LM End	2.41	Issue Type +	En	Location *	LS

Photo 2 of 3 : FA_2014_RD2031_307_42_20141001_00028.jpg



View of closed flap gate on waterside.

* 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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	2.41	Rating **	A/W	Issue No.	42 (cont)
LM End	2.41	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.688623 °	37.688623 °
				-121.179767 °	-121.179767 °
DWR ID	DWR_RD2031_01_f_2012_42				
Action/Comments					
Pipe Inspector Comments: Flap gate is closed and appears to be operational.					

Photo 3 of 3 : FA_2014_RD2031_307_42_20141001_00029.jpg



View of the slide gate lever and well.

LM Start	2.44	Rating **	C	Issue No.	43
LM End	2.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.688388 °	37.688388 °
				-121.180135 °	-121.180135 °
DWR ID	DWR_RD2031_01_f_2012_43				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Large rodent holes were noted on the landside slope.					

No Photos

LM Start	2.47	Rating **	M	Issue No.	29
LM End	2.47	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.687949 °	37.687949 °
				-121.180305 °	-121.180305 °
DWR ID	DWR_RD2031_01_f_2014_29				
Action/Comments					
Inspector Comments: FS_ID:22834 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Flapgate partially blocked by soil on WS toe. Good candidate for video inspection. FIELD_STRUCT_DESC: 24-inch CMP stormdrain pipe through the levee at unknown depth. Flapgate on WS toe. Pipe may originate at concrete distribution box on LS toe. FS Date: 9/11/2013					

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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	2.65	Rating **	M	Issue No.	45
LM End	2.65	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.687146 °	37.687146 °	
			-121.183152 °	-121.183152 °	
DWR ID	DWR_RD2031_01_f_2012_45				
Action/Comments					
Crops Inspector Comments: Hay bale on waterside levee slope.					

Photo 1 of 1 : FA_2014_RD2031_307_45_20141001_00031.jpg



View of hay bales at toe of levee on waterward side, facing downstream.

LM Start	3.12	Rating **	M	Issue No.	33
LM End	3.12	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.688297 °	37.688297 °	
			-121.190865 °	-121.190865 °	
DWR ID	DWR_RD2031_01_f_2014_33				
Action/Comments					
Inspector Comments: FS_ID:20449 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears to be abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through levee 14.0 feet below crown. Slide gate in 36-inch corrugated metal pipe riser on the waterward slope. Originally included in the 1968 O&M manual. FS Date: 9/11/2013					

No Photos

LM Start	3.20	Rating **	M	Issue No.	55
LM End	3.32	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.689368 °	37.690829 °	
			-121.191680 °	-121.192511 °	
DWR ID	DWR_RD2031_01_f_2013_55				
Action/Comments					
Agricultural tilling Inspector Comments: Landside levee toe has about 12 inch vertical cut.					

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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	3.29	Rating **	A/W	Issue No.	17
LM End	3.29	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.690556 °	37.690556 °	
			-121.192451 °	-121.192451 °	
DWR ID	DWR_RD2031_01_s_2012_17				
Action/Comments					
Pipe Inspector Comments: Irrigation intake					

No Photos

LM Start	3.55	Rating **	A/W	Issue No.	24
LM End	3.55	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.690864 °	37.690864 °	
			-121.195990 °	-121.195990 °	
DWR ID	DWR_RD2031_01_s_2012_24				
Action/Comments					
Pipe Inspector Comments: Drain to channel					

No Photos

LM Start	3.64	Rating **	A/W	Issue No.	28
LM End	3.64	Issue Type +	Ob	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.690280 °	37.690280 °	
			-121.197447 °	-121.197447 °	
DWR ID	DWR_RD2031_01_s_2012_28				
Action/Comments					
Pipe Inspector Comments: Irrigation intake.					

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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	3.70	Rating **	M	Issue No.	40
LM End	3.70	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.689900 °	37.689900 °
				-121.198319 °	-121.198319 °
DWR ID	DWR_RD2031_01_f_2014_40				
Action/Comments					
Inspector Comments: FS_ID:23064 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Good candidate for video inspection. FIELD_STRUCT_DESC: 24-inch CMP drainpipe through levee 5.5 feet below crown. Flapgate visible at WS toe. Originally included in the 1968 O&M manual. FS Date: 9/12/2013					

No Photos

LM Start	3.72	Rating **	M	Issue No.	44
LM End	3.72	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.689742 °	37.689742 °
				-121.198778 °	-121.198778 °
DWR ID	DWR_RD2031_01_f_2014_44				
Action/Comments					
Inspector Comments: FS_ID:22843 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this possible crossing. FIELD_STRUCT_DESC: 4-inch steel irrigation line through the levee at unknown depth. Pipe visible between larger irrigation pipes below slant pump on WS slope. FS Date: 9/12/2013					

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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	3.72	Rating **	M	Issue No.	48
LM End	3.72	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.689739 °	37.689739 °
				-121.198790 °	-121.198790 °
DWR ID	DWR_RD2031_01_f_2014_48				
Action/Comments					
Inspector Comments: FS_ID:20667 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Siphon breaker missing from LS shoulder. Fish screen and pipe end covered in debris that may cause damage to pipe. FIELD_STRUCT_DESC: 1 of 2: 20-inch steel irrigation pipe through levee 3.9 feet below crown. Slant pump in pump house mounted on piles on the berm. Siphon breaker in corrugated metal pipe riser on the landward shoulder. Service pole on the landward slope. 5'X5' concrete distribution box on LS toe with flapgate. Originally included in the 1968 O&M manual. FS Date: 9/12/2013					

No Photos

LM Start	3.73	Rating **	M	Issue No.	49
LM End	3.73	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.689757 °	37.689757 °
				-121.198804 °	-121.198804 °
DWR ID	DWR_RD2031_01_f_2014_49				
Action/Comments					
Inspector Comments: FS_ID:22845 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this possible crossing. FIELD_STRUCT_DESC: 2.5-inch galvanized iron irrigation line through the levee at unknown depth. Submersible pump at WS slope. FS Date: 9/12/2013					

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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	4.03	Rating **	A/W	Issue No.	31
LM End	4.03	Issue Type +	Ob	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.690937 °	37.690937 °	
			-121.203319 °	-121.203319 °	
DWR ID	DWR_RD2031_01_s_2012_31				
Action/Comments					
Pipe Inspector Comments: Drainage outlet					

No Photos

LM Start	4.42	Rating **	A/W	Issue No.	46
LM End	4.42	Issue Type +	En	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.686820 °	37.686820 °	
			-121.207718 °	-121.207718 °	
DWR ID	DWR_RD2031_01_f_2012_46				
Action/Comments					
Pipe Inspector Comments: PG&E Gas pipeline					

No Photos

LM Start	4.44	Rating **	M	Issue No.	56
LM End	4.44	Issue Type +	En	Location *	CR
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.686500 °	37.686500 °	
			-121.207900 °	-121.207900 °	
DWR ID	DWR_RD2031_01_f_2014_56				
Action/Comments					
Inspector Comments: FS_ID:22846 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this possible crossing. FIELD_STRUCT_DESC: 4-inch galvanized iron irrigation line visible on WS shoulder. May go through the levee at unknown depth. Vent on WS shoulder. FS Date: 9/12/2013					

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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	4.54	Rating **	M	Issue No.	41
LM End	4.54	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.685268 °	37.685268 °	
			-121.208380 °	-121.208380 °	
DWR ID	DWR_RD2031_01_s_2012_41				
Action/Comments					
Landscaping					

No Photos

LM Start	4.60	Rating **	M	Issue No.	982
LM End	4.80	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.684474 °	37.682167 °	
			-121.208447 °	-121.209098 °	
DWR ID	DWR_RD2031_01_s_2012_982				
Action/Comments					
Landscaping Inspector Comments: Poplars and other landscaping at levee toe.					

No Photos

LM Start	5.02	Rating **	M	Issue No.	57
LM End	5.02	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.680103 °	37.680103 °	
			-121.212016 °	-121.212016 °	
DWR ID	DWR_RD2031_01_f_2014_57				
Action/Comments					
Inspector Comments: FS_ID:20688 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: CMP riser on WS slope is missing lid and may be a hazard. FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through levee 11-feet below crown. Slide gate in 48-inch CMP riser on the waterward slope. 5'X5' Concrete distribution box 10 feet from the waterward toe. Underground irrigation system on the landside with concrete standpipes visible in field. Originally included in the 1968 O&M manual. FS Date: 9/12/2013					

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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	5.10	Rating **	A/W	Issue No.	47
LM End	5.10	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.679365 °	37.679365 °	
			-121.213108 °	-121.213108 °	
DWR ID	DWR_RD2031_01_s_2013_47				
Action/Comments					
Pipe					

No Photos

LM Start	5.94	Rating **	A/W	Issue No.	26
LM End	5.94	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.670330 °	37.670330 °	
			-121.219236 °	-121.219236 °	
DWR ID	DWR_RD2031_01_s_2012_26				
Action/Comments					
Pipe Inspector Comments: MID installation					

No Photos

LM Start	6.21	Rating **	M	Issue No.	19
LM End	6.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.668988 °	37.668302 °	
			-121.223514 °	-121.227842 °	
DWR ID	DWR_RD2031_01_s_2014_19				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

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. 2031 Elliot

Waterway		Bank	Unit Miles	
Unit No. 02 San Joaquin River		Right	5.98	
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	05/08/2014 - 05/08/2014		11/04/2014 - 11/04/2014	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By			Bob Buckmaster RD2031 Elliott	

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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	0.22	Rating **	A/W	Issue No.	3
LM End	0.22	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.658843 °	37.658843 °	
			-121.234271 °	-121.234271 °	
DWR ID	DWR_RD2031_02_s_2012_3				
Action/Comments					
Pipe					

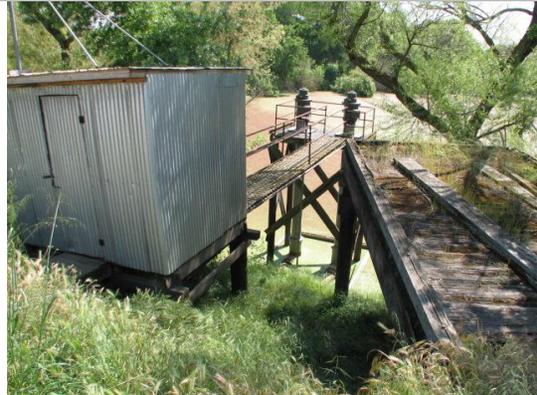
Photo 1 of 2 : FA_2014_RD2031_308_3_20141001_00002.jpg



10/26/2011 Flap gates on landside.

LM Start	0.22	Rating **	A/W	Issue No.	3 (cont)
LM End	0.22	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2014_RD2031_308_3_20141001_00003.jpg



Drainage discharge pumps and housing on steep waterside slope.

LM Start	0.24	Rating **	M	Issue No.	2
LM End	0.24	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.658595 °	37.658595 °	
			-121.234410 °	-121.234410 °	
DWR ID	DWR_RD2031_02_f_2014_2				
Action/Comments					
Inspector Comments: FS_ID:20708 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Inlet filled with soil, and CMP riser on WS slope needs lid as it may be a hazard.					

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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	1.28	Rating **	M	Issue No.	8
LM End	1.28	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.649918 °	37.649918 °	
			-121.221913 °	-121.221913 °	
DWR ID	DWR_RD2031_02_s_2013_8				
Action/Comments					
Building					

Photo 1 of 1 : FA_2014_RD2031_308_8_20141001_00005.jpg



View of the structure at the waterside levee toe.

LM Start	1.36	Rating **	U	Issue No.	4
LM End	1.36	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.648898 °	37.648898 °	
			-121.221621 °	-121.221621 °	
DWR ID	DWR_RD2031_02_s_2012_4				
Action/Comments					
Building					

Photo 1 of 1 : FA_2014_RD2031_308_4_20141001_00004.jpg



Small structure on levee slope.

LM Start	1.42	Rating **	M	Issue No.	15
LM End	1.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.648080 °	37.648080 °	
			-121.221031 °	-121.221031 °	
DWR ID	DWR_RD2031_02_s_2013_15				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2014_RD2031_308_15_20141001_00010.jpg



View of the tree limb obstructing visibility and access to the landside levee slope.

* 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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	1.45	Rating **	U	Issue No.	965
LM End	1.47	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.647708 °	37.647462 °	
			-121.220873 °	-121.220857 °	
DWR ID	DWR_RD2031_02_s_2012_965				
Action/Comments					
Landscaping Inspector Comments: Wild rose bush on landside slope.					

Photo 1 of 1 : FA_2014_RD2031_308_965_20141001_00014.jpg



Wild rose on levee slope.

LM Start	2.02	Rating **	M	Issue No.	25
LM End	2.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.640874 °	37.640874 °	
			-121.223870 °	-121.223870 °	
DWR ID	DWR_RD2031_02_f_2014_25				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2014_RD2031_308_25_20141104_00026.jpg



View of the overgrown tree obstructing visibility and access of the landside levee slope.

LM Start	2.15	Rating **	M	Issue No.	21
LM End	2.15	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.640632 °	37.640632 °	
			-121.221539 °	-121.221539 °	
DWR ID	DWR_RD2031_02_f_2014_21				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA_2014_RD2031_308_21_20141104_00025.jpg



View of overgrown vegetation on the levee crown.

* 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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	2.28	Rating **	U	Issue No.	26
LM End	2.30	Issue Type +	Ob	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.640371 °	37.640340 °	
			-121.219254 °	-121.218974 °	
DWR ID	DWR_RD2031_02_f_2014_26				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : FA_2014_RD2031_308_26_20141104_00027.jpg



View of the caving bank on the waterside facing upstream.

LM Start	2.75	Rating **	M	Issue No.	11
LM End	2.75	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.637760 °	37.637760 °	
			-121.211743 °	-121.211743 °	
DWR ID	DWR_RD2031_02_f_2014_11				
Action/Comments					
Inspector Comments: FS_ID:20713 EP_NO: 11758 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe rusted through and failing at WS toe. Good indicator of internal condition of pipe. Good candidate for video inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drain pipe through levee 17.0 feet below crown. 20-inch steel pipe and 1.25-inch galvanized conduit sleeved through pipe. Annular space has been pressure grouted. 24-inch pipe originally included in the 1968 O&M manual. Slide gate in 48-inch CMP riser on LS slope. 36-inch concrete standpipe at LS toe with pump on 48-inch steel standpipe. 20-inch and 1.5-inch pipes installed under Permit No. 11758, 1976. FS Date: 9/17/2013					

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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	3.00	Rating **	M	Issue No.	966
LM End	3.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.637626 °	37.638301 °
				-121.207191 °	-121.196465 °
DWR ID	DWR_RD2031_02_s_2012_966				
Action/Comments					
Trim trees to at least five feet above ground level. Inspector Comments: Obstructive trees and vegetation along highway are on the landside slope of the levee.					

No Photos

LM Start	3.24	Rating **	M	Issue No.	13
LM End	3.24	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.638185 °	37.638185 °
				-121.202906 °	-121.202906 °
DWR ID	DWR_RD2031_02_f_2014_13				
Action/Comments					
Inspector Comments: FS_ID:20719 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Annular space between 20-inch and 24-inch pipe not grouted. FIELD_STRUCT_DESC: 24-inch steel pipe through levee 8.0 feet below crown. Pump on pile structure in river. 20-inch steel pipe sleeved through 24-inch. 4'X11' concrete distribution box on LS toe. 2-inch electrical conduit at same location. Originally included in the 1968 O&M manual. FS Date: 9/17/2013					

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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	3.24	Rating **	M	Issue No.	14
LM End	3.24	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.638186 °	37.638186 °
				-121.202895 °	-121.202895 °
DWR ID	DWR_RD2031_02_f_2014_14				
Action/Comments					
Inspector Comments: FS_ID:20718 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 16-inch steel pipe through levee 7.5 feet below crown. Pump on pile structure in river. 4'X11' concrete distribution box on LS slope. 6'X6' concrete distribution box off LS toe. Originally included in the 1968 O&M manual. FS Date: 9/17/2013					

No Photos

LM Start	3.88	Rating **	M	Issue No.	16
LM End	3.88	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.637924 °	37.637924 °
				-121.191600 °	-121.191600 °
DWR ID	DWR_RD2031_02_f_2014_16				
Action/Comments					
Inspector Comments: FS_ID:20726 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Minor debris blocking closure of flapgate on WS toe. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through levee 11.0 feet below crown. Concrete "U" headwall on each end. Flap gate on the waterward end. Originally included in the 1968 O&M manual. FS Date: 9/17/2013					

No Photos

LM Start	4.24	Rating **	C	Issue No.	9
LM End	4.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.632761 °	37.632157 °
				-121.190684 °	-121.190242 °
DWR ID	DWR_RD2031_02_s_2012_9				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Heavily rodent infested area. Some burrows appear to penetrate the levee from the waterside to the landside.					

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	4.25	Rating **	C	Issue No.	23
LM End	4.25	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.632520 °	37.632520 °
				-121.190605 °	-121.190605 °
DWR ID	DWR_RD2031_02_s_ 2013_23				
Action/Comments					
Prunings Inspector Comments: Prunings and other debris in the floodway.					

No Photos

LM Start	4.33	Rating **	A/W	Issue No.	1
LM End	4.37	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.631716 °	37.631716 °
				-121.189370 °	-121.189370 °
DWR ID					
Action/Comments					
Inspector Comments: 7/17/2014: The erosion has slightly expanded toward levee toe at two pocket locations. 09/10/2013: The site has been visited. The erosion has expanded toward levee crest at two pocket locations. 07/18/2012: No significant change observed on the site. 08/18/2011: No significant change observed on the site. Dead trees and animal activities are visible. The closest point of the erosion site to the levee toe is about 100 ft. 10/19/2010: There is active scouring occurring on the bank due to the nature of the flow and the lack of armor protection. There is also a fallen log immediately downstream of where the erosion has occurred and is protruding outward, possibly creating an eddy and scouring the bank. With the remaining 100-foot wide berm, the levee prism is not yet affected. However, the bank will continue to degrade, and eventually intrude into the levee prism if no protection is put in place. Erosion site is recommended for annual assessment and monitoring during flood events. [2014 Site ID:RD2031U02RM78.7]					

Photo 1 of 1 : SJR2014_RD2031U02RM78.7_1.jpg



Looking downstream. The erosion has progressed toward 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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	4.58	Rating **	A/W	Issue No.	22
LM End	4.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.630855 °	37.630855 °	
			-121.185442 °	-121.185442 °	
DWR ID	DWR_RD2031_02_f_2012_22				
Action/Comments					
Pipe Inspector Comments: 36" discharge pipe through the levee with flap gate closed.					

Photo 1 of 1 : FA_2014_RD2031_308_22_20141001_00012.jpg



View of the closed flap gate on waterside.

LM Start	4.75	Rating **	M	Issue No.	17
LM End	4.75	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.630815 °	37.630815 °	
			-121.182416 °	-121.182416 °	
DWR ID	DWR_RD2031_02_f_2014_17				
Action/Comments					
Inspector Comments: FS_ID:22872 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 16-inch PVC irrigation pipe through the levee 6-feet below the crown. Headwall on LS toe. FS Date: 9/17/2013					

No Photos

LM Start	5.08	Rating **	C	Issue No.	12
LM End	5.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.630843 °	37.630843 °	
			-121.176329 °	-121.176329 °	
DWR ID	DWR_RD2031_02_s_2014_12				
Action/Comments					
Repair slope instability.					

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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	5.42	Rating **	M	Issue No.	24
LM End	5.69	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.630808 °	37.630795 °	
			-121.170164 °	-121.165395 °	
DWR ID	DWR_RD2031_02_s_2013_24				
Action/Comments					
Ditch					

No Photos

LM Start	5.52	Rating **	A	Issue No.	18
LM End	5.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Seepage / Sandboils		37.630802 °	37.630802 °	
			-121.168439 °	-121.168439 °	
DWR ID	DWR_RD2031_02_s_2014_18				
Action/Comments					

Photo 1 of 1 : FA_2014_RD2031_308_18_20141001_00011.jpg



View of the seepage at the landside levee toe.

LM Start	5.64	Rating **	U	Issue No.	10
LM End	5.64	Issue Type +	Ob	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Seepage / Sandboils		37.630773 °	37.630773 °	
			-121.166342 °	-121.166342 °	
DWR ID	DWR_RD2031_02_f_2013_10				
Action/Comments					

Photo 1 of 1 : FA_2014_RD2031_308_10_20141001_00008.jpg



View of the seepage area at 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. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	11/04/2014 11/04/2014	Maksim Khashchuk

LM Start	5.69	Rating **	M	Issue No.	19
LM End	5.69	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.630779 °	37.630779 °	
			-121.165402 °	-121.165402 °	
DWR ID	DWR_RD2031_02_f_2014_19				
Action/Comments					
Inspector Comments: FS_ID:22873 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 24-inch PVC irrigation pipeline through levee 5.0-foot below crown. Slide gate at waterward shoulder. 6-inch steel riser on WS shoulder. FS Date: 9/17/2013					

No Photos

LM Start	5.99	Rating **	M	Issue No.	20
LM End	5.99	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.630760 °	37.630760 °	
			-121.159951 °	-121.159951 °	
DWR ID	DWR_RD2031_02_f_2014_20				
Action/Comments					
Inspector Comments: FS_ID:20745 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Gasline may not have enough cover. FIELD_STRUCT_DESC: 8-inch gas line through the levee 1.0-foot below the crown. Originally included in the 1968 O&M manual. Sign on LS toe, pipe visible at canal. FS Date: 9/17/2013					

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
--	---	---