

**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

RD2101		Overall LMA Rating	Total LMA Miles						
Reclamation District No. 2101 Blewett		U	3.46						
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	0.29%					
Trim / Thin Trees	0.01		0.01	0.29%					
Encroachments					1.33				
Animal Control	0.25	0.03	0.37	10.71%					
Erosion / Bank Caving	0.01		0.01	0.29%					
<i>Supplemental</i>									
DWR Erosion Survey		0.10	0.40	11.57%					
DWR UCIP Field Study					0.05	0.02			
<i>LMA Totals:</i>	0.28	0.13	0.80	23.15%	1.38	0.02	0.00	0.00	
Unit No. 01 San Joaquin River LB		Overall Unit Rating	Total Unit Miles						
RD2101		U	3.16						
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>									
Trim / Thin Trees	0.01		0.01	0.32%					
Encroachments					1.33				
Animal Control	0.24	0.03	0.36	11.40%					
Erosion / Bank Caving	0.01		0.01	0.32%					
<i>Supplemental</i>									
DWR Erosion Survey		0.10	0.40	12.67%					
DWR UCIP Field Study					0.05	0.02			
<i>Unit Totals:</i>	0.26	0.13	0.78	24.71%	1.38	0.02	0.00	0.00	
Unit No. 02 San Joaquin River (Spur Levee) RB		Overall Unit Rating	Total Unit Miles						
RD2101		A	0.30						
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	3.35%					
Animal Control	0.01		0.01	3.35%					
<i>Unit Totals:</i>	0.02	0.00	0.02	6.70%	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. 2101 Blewett

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

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

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

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2014 Levee Inspection Results

Reclamation District No. 2101 Blewett

Waterway		Bank	Unit Miles
Unit No. 01 San Joaquin River		Left	3.16
	Spring (March - May)	Summer (June - August)	(September - November) Fall Winter (December - February)
Unit Maintenance Rating (Fall Only)			U
Date of Inspection	05/20/2014 - 05/20/2014		10/28/2014 - 10/28/2014
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk
Accompanied By	Jim Coddington RD2101		Jim Coddington RD2101

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. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	2
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Operations & Maintenance Manuals			o	o
				o	o
DWR ID	DWR_RD2101_01_s_2013_2				
Action/Comments					
Inspector Comments: The LMA has the O&M Manual available electronically.					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Emergency Supplies & Equipment			o	o
				o	o
DWR ID	DWR_RD2101_01_s_2013_4				
Action/Comments					
Inspector Comments: LMA has emergency supplies on site at the warehouse.					

No Photos

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			o	o
				o	o
DWR ID	DWR_RD2101_01_s_2013_5				
Action/Comments					
Inspector Comments: LMA is current on flood fight 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start	0.04	Rating **	M	Issue No.	12
LM End	0.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.657648 °	37.657648 °	
			-121.253812 °	-121.253812 °	
DWR ID	DWR_RD2101_01_s_2012_12				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD2101_326_12_20141001_00005.jpg



View of rodent holes on waterward slope, facing upstream.

LM Start	0.05	Rating **	U	Issue No.	6
LM End	0.05	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.657801 °	37.657801 °	
			-121.253745 °	-121.253745 °	
DWR ID	DWR_RD2101_01_f_2014_6				
Action/Comments					
Inspector Comments: FS_ID:26403 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Slide gate missing from WS toe. Pipe has heavy sediment buildup. FIELD_STRUCT_DESC: 18-inch corrugated metal pipe through levee 3-feet below crown. Concrete headwall on both ends. Slide gate at headwall on the waterward end. Originally included in the 1968 O&M manual. FS Date: 9/17/2013					

No Photos

LM Start	0.07	Rating **	M	Issue No.	16
LM End	0.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.657811 °	37.657811 °	
			-121.253269 °	-121.253269 °	
DWR ID	DWR_RD2101_01_s_2013_16				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Continue rodent extermination and backfilling the rodent burrows.					

Photo 1 of 1 : FA_2014_RD2101_326_16_20141029_00031.jpg



View of rodent burrows on 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	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start	0.16	Rating **	M	Issue No.	19
LM End	0.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.656827 °	37.656827 °	
			-121.252150 °	-121.252150 °	
DWR ID	DWR_RD2101_01_s_2012_19				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	0.19	Rating **	A/W	Issue No.	7
LM End	0.19	Issue Type +	En	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.657128 °	37.657128 °	
			-121.251692 °	-121.251692 °	
DWR ID	DWR_RD2101_01_s_2012_7				
Action/Comments					
Pipe					

Photo 1 of 1 : FA_2014_RD2101_326_7_20141001_00003.jpg



Drainage discharge under levee crown.

LM Start	0.32	Rating **	M	Issue No.	9
LM End	0.32	Issue Type +	En	Location *	CR
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.658142 °	37.658142 °	
			-121.250047 °	-121.250047 °	
DWR ID	DWR_RD2101_01_f_2014_9				
Action/Comments					
Inspector Comments: FS_ID:20785 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Inlet blocked by soil from beaver activity. Outlet covered in soil. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through levee 21.0 feet below crown. Headwall and slide gate on the landward end. Concrete "U" headwall and flap gate on the waterward end. Originally included in the 1968 O&M manual. FS Date: 9/19/2013					

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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start	0.70	Rating **	U	Issue No.	26
LM End	0.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.659907 °	37.659907 °	
			-121.244219 °	-121.244219 °	
DWR ID	DWR_RD2101_01_s_2013_26				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD2101_326_26_20141001_00015.jpg



View of the rodent burrows on the waterside levee slope.

LM Start	0.75	Rating **	M	Issue No.	11
LM End	0.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.659705 °	37.659705 °	
			-121.243306 °	-121.243306 °	
DWR ID	DWR_RD2101_01_f_2012_11				
Action/Comments					
Trim trees to at least five feet above ground level. Inspector Comments: Trim tree to allow access and visibility.					

Photo 1 of 1 : FA_2014_RD2101_326_11_20141001_00004.jpg



View of tree branches obstructing waterside slope.

LM Start	0.76	Rating **	M	Issue No.	944
LM End	1.80	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.659827 °	37.651049 °	
			-121.243675 °	-121.231475 °	
DWR ID	DWR_RD2101_01_s_2012_944				
Action/Comments					
Ditch					

Photo 1 of 1 : FA_2014_RD2101_326_944_20141001_00024.jpg



Concrete ditch near landside 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start	0.80	Rating **	C	Issue No.	22
LM End	0.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.659302 °	37.659302 °	
			-121.242875 °	-121.242875 °	
DWR ID	DWR_RD2101_01_s_2012_22				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	0.88	Rating **	M	Issue No.	3
LM End	0.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.658663 °	37.658663 °	
			-121.241750 °	-121.241750 °	
DWR ID	DWR_RD2101_01_s_2012_3				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD2101_326_3_20141001_00002.jpg



11/02/2011 Active rodent burrow.

LM Start	1.03	Rating **	N	Issue No.	33
LM End	1.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.656745 °	37.656745 °	
			-121.241104 °	-121.241104 °	
DWR ID	DWR_RD2101_01_f_2014_33				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : FA_2014_RD2101_326_33_20141029_00033.jpg



View of the tree stump at the waterside 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start	1.09	Rating **	C	Issue No.	23
LM End	1.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.655688 °	37.655688 °	
			-121.241202 °	-121.241202 °	
DWR ID	DWR_RD2101_01_s_2012_23				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	1.62	Rating **	M	Issue No.	14
LM End	1.62	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.651554 °	37.651554 °	
			-121.234319 °	-121.234319 °	
DWR ID	DWR_RD2101_01_s_2012_14				
Action/Comments					
Pole					

No Photos

LM Start	1.62	Rating **	A/W	Issue No.	13
LM End	1.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.651555 °	37.651555 °	
			-121.234319 °	-121.234319 °	
DWR ID	DWR_RD2101_01_s_2012_13				
Action/Comments					
Pipe Inspector Comments: Pipe penetrates through levee. Closure valve on water side slope.					

Photo 1 of 1 : FA_2014_RD2101_326_13_20141001_00006.jpg



Photo of pump in background and CMP riser with valve in foreground.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start	1.91	Rating **	U	Issue No.	1	
LM End	2.00	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
			Start	End		
Item	DWR Erosion Survey			37.650259 °	37.650259 °	
				-121.228961 °	-121.228961 °	
DWR ID						
Action/Comments						
<p>Inspector Comments: 07/17/2014: No significant change observed. 09/20/2013: Site has been visited. There are signs of further erosion development along the levee slope and toe. 07/18/2012: The erosion has further developed toward levee crown. Vegetation has been removed. 08/18/2011: The erosion progressed significantly during the past flood season. The levee toe along the erosion site was washed away, and the erosion has cut the levee structure up to the point about 1/3 of the levee slope. The scarp height is approximately 17 feet. Very dense vegetation and trees are visible. 10/19/2010: No significant change observed on site. Remaining levee berm topsoil is of silty sand mixture. The erosion is near the downstream transition. An eddy has formed, and has scoured away a 100-foot section of the bank, possibly encroaching into the levee prism. Vegetation on site includes willows, oak, and cotton wood located from the bench to the toe. On the landside are rows of corn crop. 08/05/2010: Recommended for Repair, per CLRO. 2009: Site recommended as annual assessment and monitoring if critical erosion site, per CLRO CES Evaluation 2008 Report; an eddy has formed, eroding bank and intruding into the levee prism; Site # is the same as RM76.3, LM1.89; previously rated "U". 08/30/2007: Recommended for short list of immediate repair sites; silty sand levee material. [2014 Site ID:RD2101U01RM73.92]</p>						

Photo 1 of 1 : SJR2014_RD2101U01RM73.92_1.jpg



Upstream view of the erosion.

LM Start	2.39	Rating **	M	Issue No.	30	
LM End	2.39	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
			Start	End		
Item	Animal Control			37.645785 °	37.645785 °	
				-121.226337 °	-121.226337 °	
DWR ID	DWR_RD2101_01_s_2012_30					
Action/Comments						
Exterminate rodents and backfill and compact or grout burrows.						

Photo 1 of 1 : FA_2014_RD2101_326_30_20141001_00023.jpg



View of levee material removed by rodent activity on landside slope, facing upstream. 05/02/2012

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start	2.68	Rating **	C	Issue No.	15
LM End	2.68	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.642815 °	37.642815 °
				-121.229935 °	-121.229935 °
DWR ID	DWR_RD2101_01_s_2014_15				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	2.74	Rating **	M	Issue No.	10
LM End	2.74	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.641976 °	37.641976 °
				-121.229745 °	-121.229745 °
DWR ID	DWR_RD2101_01_f_2014_10				
Action/Comments					
Inspector Comments: FS_ID:20865 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe leaking at pipe/concrete connection on WS slope. FIELD_STRUCT_DESC: 2 of 3: 20-inch steel pipe through levee 10.0-feet below crown encased in concrete. Pump on steel pier on WS. Gate valve in 16'X7' concrete vault on WS shoulder. Pipes discharge into concrete canal on LS toe. Originally included in the 1968 O&M manual. FS Date: 9/19/2013					

No Photos

LM Start	2.75	Rating **	A	Issue No.	34
LM End	2.75	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.641809 °	37.641809 °
				-121.229716 °	-121.229716 °
DWR ID	DWR_RD2101_01_f_2014_34				
Action/Comments					
Pipe Inspector Comments: 18 Inch HDPE has been removed by the LMA					

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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start	2.76	Rating **	M	Issue No.	20
LM End	2.76	Issue Type +	En	Location *	CR
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.641798 °	37.641798 °	
			-121.229714 °	-121.229714 °	
DWR ID	DWR_RD2101_01_f_2014_20				
Action/Comments					
Inspector Comments: FS_ID:22915 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 18-inch PVC irrigation pipe through the levee 3.5-feet below the crown. No pump or other appurtances visible. FS Date: 9/19/2013					

No Photos

LM Start	2.86	Rating **	U	Issue No.	21
LM End	2.86	Issue Type +	En	Location *	CR
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.640566 °	37.640566 °	
			-121.230216 °	-121.230216 °	
DWR ID	DWR_RD2101_01_f_2014_21				
Action/Comments					
Inspector Comments: FS_ID:20872 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Flap gate missing from WS headwall. FIELD_STRUCT_DESC: 24-inch corrugated metal drain pipe through levee 11.0 feet below crown. Concrete "U" headwall on both ends. Flap gate on waterward end. Originally included in the 1968 O&M manual. FS Date: 9/19/2013					

No Photos

LM Start	2.88	Rating **	U	Issue No.	27
LM End	2.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.640305 °	37.640305 °	
			-121.230095 °	-121.230095 °	
DWR ID	DWR_RD2101_01_s_2012_27				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Active burrows with squirrels observed. Burrows on both sides of levee.					

Photo 1 of 1 : FA_2014_RD2101_326_27_20141001_00016.jpg



Rodent holes on levee slope hidden by 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start	2.89	Rating **	M	Issue No.	24
LM End	2.89	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.640185 °	37.640185 °
				-121.230067 °	-121.230067 °
DWR ID	DWR_RD2101_01_f_2014_24				
Action/Comments					
Inspector Comments: FS_ID:20874 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Leak off LS toe may indicate internal failure. Good candidate for video inspection. FIELD_STRUCT_DESC: 2 of 2: 30-inch concrete pipe through levee 11.0 feet below crown. Pump on metal pier on waterside berm. 12-inch steel riser next to 6'X10.5' concrete box with Screw gate inside on waterward side. Abandoned Pump house on waterward side. Originally included in the 1968 O&M manual. FS Date: 9/19/2013					

No Photos

LM Start	2.89	Rating **	M	Issue No.	25
LM End	2.89	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.640185 °	37.640185 °
				-121.230067 °	-121.230067 °
DWR ID	DWR_RD2101_01_f_2014_25				
Action/Comments					
Inspector Comments: FS_ID:20873 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Leaks off LS toe may indicate internal failure. Good candidate for video inspection. FIELD_STRUCT_DESC: 1 of 2: 24-inch concrete irrigation pipe through levee 11.0 feet below crown. Pump on metal pier at WS berm. Screw gates in 6'X10.5' concrete box on waterward side. 12-inch steel riser next to concrete box with slide gates. Abandoned pump house on waterward side. Originally included in the 1968 O&M manual. FS Date: 9/19/2013					

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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start	2.89	Rating **	U	Issue No.	28
LM End	2.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.640134 °	37.640134 °	
			-121.230019 °	-121.230019 °	
DWR ID	DWR_RD2101_01_s_2012_28				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Numerous rodent holes throughout levee slope.					

Photo 1 of 1 : FA_2014_RD2101_326_28_20141029_00032.jpg



View of numerous rodent holes with bait stations present.

LM Start	2.91	Rating **	M	Issue No.	29
LM End	2.91	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.639852 °	37.639852 °	
			-121.229980 °	-121.229980 °	
DWR ID	DWR_RD2101_01_s_2012_29				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 2 : FA_2014_RD2101_326_29_20141001_00021.jpg



View of repaired site, but it appears that erosion is still occurring.
09/25/2012

LM Start	2.91	Rating **	M	Issue No.	29 (cont)
LM End	2.91	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2014_RD2101_326_29_20141001_00022.jpg



Levee slope is being eroded at this location. Repair needed to preserve access road.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start	2.91	Rating **	M	Issue No.	8
LM End	3.19	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.639780 °	37.637167 °	
			-121.230008 °	-121.233715 °	
DWR ID	DWR_RD2101_01_f_2013_8				
Action/Comments					
Ditch					

No Photos

LM Start	3.02	Rating **	M	Issue No.	17
LM End	3.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.638760 °	37.638760 °	
			-121.231341 °	-121.231341 °	
DWR ID	DWR_RD2101_01_s_2012_17				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Active burrows with rodents present.					

Photo 1 of 1 : FA_2014_RD2101_326_17_20141001_00009.jpg



Numerous burrows present, some already caving in, others are active.

LM Start	3.11	Rating **	M	Issue No.	18
LM End	3.11	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.637943 °	37.637943 °	
			-121.232620 °	-121.232620 °	
DWR ID	DWR_RD2101_01_s_2012_18				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Large burrow in crown with no rodents present at time of inspection.					

Photo 1 of 3 : FA_2014_RD2101_326_18_20141001_00010.jpg



11/02/2011 Large burrow in 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start	3.11	Rating **	M	Issue No.	18 (cont)
LM End	3.11	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.637943 °	37.637943 °	
			-121.232620 °	-121.232620 °	
DWR ID	DWR_RD2101_01_s_2012_18				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Large burrow in crown with no rodents present at time of inspection.					

Photo 2 of 3 : FA_2014_RD2101_326_18_20141001_00011.jpg



View of the rodent hole in the levee crown. Smaller holes were covered due to crown regrading. 09/25/2012

LM Start	3.11	Rating **	M	Issue No.	18 (cont)
LM End	3.11	Issue Type +	Ma	Location *	CR

Photo 3 of 3 : FA_2014_RD2101_326_18_20141001_00012.jpg



05/02/2012 Rodent holes in 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
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2014 Levee Inspection Results

Reclamation District No. 2101 Blewett

Waterway		Bank	Unit Miles
Unit No. 02 San Joaquin River (Spur Levee)		Right	0.30
	Spring (March - May)	Summer (June - August)	(September - November) Fall Winter (December - February)
Unit Maintenance Rating (Fall Only)			A
Date of Inspection	05/20/2014 - 05/20/2014		10/28/2014 - 10/28/2014
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk
Accompanied By	Jim Coddington RD2101		Jim Coddington RD2101

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. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River (Spur Levee)	Right	0.30	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start	0.02	Rating **	C	Issue No.	4
LM End	0.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.660055 °	37.660055 °	
			-121.243446 °	-121.243446 °	
DWR ID	DWR_RD2101_02_s_2014_4				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

LM Start	0.23	Rating **	M	Issue No.	2
LM End	0.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.662968 °	37.662968 °	
			-121.242674 °	-121.242674 °	
DWR ID	DWR_RD2101_02_f_2013_2				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD2101_327_2_20141001_00001.jpg



View of the rodent burrows on waterside levee slope.

LM Start	0.28	Rating **	M	Issue No.	1
LM End	0.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.663593 °	37.663593 °	
			-121.242807 °	-121.242807 °	
DWR ID	DWR_RD2101_02_f_2014_1				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA_2014_RD2101_327_1_20141029_00003.jpg



View of the vegetation on the waterside levee 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
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