

**Flood Control Project Maintenance
Levee Inspections**

Fall 2013 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD0001 Reclamation District No. 0001 Union Island	Overall LMA Rating	Total LMA Miles						
	U	1.15						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	1.39		1.39	120.87%				
Animal Control	0.04		0.04	3.48%				
Slope Stability	0.01		0.01	0.87%				
Erosion / Bank Caving	0.01		0.01	0.87%				
<i>Supplemental</i>								
DWR Erosion Survey	0.01		0.01	0.87%				
<i>LMA Totals:</i>	1.46	0.00	1.46	126.96%	0.00	0.00	0.00	0.00

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

Reclamation District No. 0001 Union Island

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

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

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

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

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 0001 Union Island

Waterway	Bank	Unit Miles
Unit No. 01 Old River	Right	1.15

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	05/09/2013 - 05/09/2013		10/25/2013 - 10/25/2013	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0001 Union Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.15	10/25/2013 10/25/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1			Earthen Levee	Flood Preparedness & Training	LS	A Ma		°	°	6
								DWR ID: DWR_RD0001_01_s_2013_6		
2			Earthen Levee	Emergency Supplies & Equipment	LS	A Ma		°	°	8
								DWR ID: DWR_RD0001_01_s_2013_8		
3			Earthen Levee	Operations & Maintenance Manuals	LS	A Ma		°	°	9
								DWR ID: DWR_RD0001_01_s_2013_9		
4	0.00	0.00	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 08/20/2013: No significant change at this site. 08/07/2012: The erosion is at the confluence of Old River and one of its tributary. [2013 Site ID:RD0001U01RM31.4]	37.822306 ° -121.375304 °	37.822306 ° -121.375304 °	2 Y
								DWR ID:		
5	0.01	0.01	Earthen Levee	Encroachments	WSA/W	PI : Pipe En	Inspector Comments: Steel irrigation intake pipe up levee slope and through freeboard.	37.822408 ° -121.375714 °	37.822408 ° -121.375714 °	1 Y
								DWR ID: DWR_RD0001_01_s_2012_1		
6	0.02	0.02	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Several burrows present	37.822511 ° -121.375857 °	37.822511 ° -121.375857 °	18 Y
								DWR ID: DWR_RD0001_01_s_2012_18		
7	0.11	1.14	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.822056 ° -121.377382 °	37.811775 ° -121.384764 °	24 Y
								DWR ID: DWR_RD0001_01_f_2013_24		
8	0.20	0.20	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E2 : Schedule repair of erosion site prior to the next inspection.	37.820989 ° -121.378174 °	37.820989 ° -121.378174 °	5 Y
								DWR ID: DWR_RD0001_01_s_2013_5		
9	0.39	0.39	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma	Inspector Comments: Irrigation intake through levee crown.	37.819651 ° -121.380467 °	37.819651 ° -121.380467 °	7 Y
								DWR ID: DWR_RD0001_01_s_2012_7		
10	0.66	0.66	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.817249 ° -121.382026 °	37.817249 ° -121.382026 °	15 Y
								DWR ID: DWR_RD0001_01_s_2012_15		
11	0.67	0.67	Earthen Levee	Encroachments	LS A/W	PI : Pipe Ma	Inspector Comments: Drainage discharge into Old River. No photo found from previous inspection. 04/26/2011 photo added.	37.817134 ° -121.382099 °	37.817134 ° -121.382099 °	20 Y
								DWR ID: DWR_RD0001_01_s_2012_20		
12	0.67	0.82	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.817114 ° -121.382203 °	37.815070 ° -121.382486 °	27 Y
								DWR ID: DWR_RD0001_01_f_2013_27		

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

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0001 Union Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.15	10/25/2013 10/25/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
13	0.86	0.86	Earthen Levee	Encroachments	LS A/W Ma	PI : Pipe Inspector Comments: Irrigation intake through levee freeboard.	37.814566 ° -121.382450 °	37.814566 ° -121.382450 °	10 Y
DWR ID: DWR_RD0001_01_s_2012_10									
14	0.91	0.91	Earthen Levee	Vegetation	LS C Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.814220 ° -121.383336 °	37.814220 ° -121.383336 °	11 Y
DWR ID: DWR_RD0001_01_s_2012_11									
15	0.93	1.14	Earthen Levee	Vegetation	WS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.814013 ° -121.383700 °	37.811775 ° -121.384764 °	25 Y
DWR ID: DWR_RD0001_01_f_2013_25									
16	1.09	1.09	Earthen Levee	Slope Stability	LS M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	37.812021 ° -121.384020 °	37.812021 ° -121.384020 °	3 Y
DWR ID: DWR_RD0001_01_s_2013_3									
17	1.12	1.12	Earthen Levee	Animal Control	LS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.811896 ° -121.384370 °	37.811896 ° -121.384370 °	26 Y
DWR ID: DWR_RD0001_01_f_2013_26									
18	1.14	1.14	Earthen Levee	Animal Control	LS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.811775 ° -121.384764 °	37.811775 ° -121.384764 °	23 Y
DWR ID: DWR_RD0001_01_f_2013_23									

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.15	10/25/2013 10/25/2013	Maksim Khashchuk

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Close view of erosion.

SJR2013_RD0001U01RM31.4_3.jpg



Levee Mile Report Line	5
Start Levee Mile	0.01
End Levee Mile	0.01
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of irrigation intake pipe on waterside slope.

mkhashch_f_20130923_120.JPG



Levee Mile Report Line	6
Start Levee Mile	0.02
End Levee Mile	0.02
Location	Land Side
Category	Earthen Levee
Item	Animal Control

04/26/2011 Animal burrow in levee crown.

mkhashch_f_20130923_129.jpg



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Levee Mile Report Line	6
Start Levee Mile	0.02
End Levee Mile	0.02
Location	Land Side
Category	Earthen Levee
Item	Animal Control
04/26/2011 Several burrows present in levee crown and landside slope.	
mkhashch_f_20130923_130.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.11
End Levee Mile	1.14
Location	Land Side
Category	Earthen Levee
Item	Vegetation
View of the tall vegetation obstructing visibility of the landside levee slope .	
mkhashch_f_20131028_680.JPG	



Levee Mile Report Line	8
Start Levee Mile	0.20
End Levee Mile	0.20
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
View of the erosion on the landside levee slope.	
mkhashch_f_20130923_123.JPG	



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Unit No. 01 Old River	Right	1.15	10/25/2013 10/25/2013	Maksim Khashchuk

Levee Mile Report Line	9
Start Levee Mile	0.39
End Levee Mile	0.39
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Drainage discharge pipe through levee freeboard.	
mkhashch_f_20130923_124.jpg	



Levee Mile Report Line	10
Start Levee Mile	0.66
End Levee Mile	0.66
Location	Land Side
Category	Earthen Levee
Item	Animal Control
Rodent holes on levee slope.	
mkhashch_f_20130923_128.jpg	



Levee Mile Report Line	11
Start Levee Mile	0.67
End Levee Mile	0.67
Location	Land Side
Category	Earthen Levee
Item	Encroachments
04/26/2011 Discharge pipe in waterside slope.	
mkhashch_f_20130923_131.jpg	



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Levee Mile Report Line	13
Start Levee Mile	0.86
End Levee Mile	0.86
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of irrigation intake pipe on waterside.	
mkhashch_f_20130923_125.JPG	



Levee Mile Report Line	13
Start Levee Mile	0.86
End Levee Mile	0.86
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of irrigation pipe on landside.	
mkhashch_f_20130923_126.JPG	



Levee Mile Report Line	15
Start Levee Mile	0.93
End Levee Mile	1.14
Location	Water Side
Category	Earthen Levee
Item	Vegetation
View of the tall vegetation obstructing visibility of the waterside levee slope .	
mkhashch_f_20131028_681.JPG	



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Levee Mile Report Line	16
Start Levee Mile	1.09
End Levee Mile	1.09
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

View of the tire tracks on the landside levee slope.

mkhashch_f_20130923_122.JPG



Levee Mile Report Line	18
Start Levee Mile	1.14
End Levee Mile	1.14
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of the rodent burrow on the landside slope.

mkhashch_f_20131028_679.JPG



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