

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

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

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

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

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2014 Levee Inspection Results

Reclamation District No. 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)				
Date of Inspection	05/07/2014 - 05/07/2014			
DWR Inspector	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 - Spring 2014

Reclamation District No. 0001 Union Island

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River		Right	1.15	05/07/2014 05/07/2014	Maksim Khashchuk

LM Start		Rating **	M	Issue No.	6	
LM End		Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Flood Preparedness & Training				°	°
					°	°
DWR ID	DWR_RD0001_01_s_2013_6					
Action/Comments						

No Photos

LM Start		Rating **	A	Issue No.	8	
LM End		Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Emergency Supplies & Equipment				°	°
					°	°
DWR ID	DWR_RD0001_01_s_2013_8					
Action/Comments						

No Photos

LM Start		Rating **	A	Issue No.	9	
LM End		Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Operations & Maintenance Manuals				°	°
					°	°
DWR ID	DWR_RD0001_01_s_2013_9					
Action/Comments						

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0001 Union Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.15	05/07/2014 05/07/2014	Maksim Khashchuk

LM Start	0.00	Rating **	M	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.822306 °	37.822306 °
				-121.375304 °	-121.375304 °
DWR ID	DWR_RD0001_01_s_2014_2				
Action/Comments					
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]					

Photo 1 of 1 : mkhashch_s_20140428_00374.jpg



Close view of erosion.

LM Start	0.01	Rating **	A/W	Issue No.	1
LM End	0.01	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.822408 °	37.822408 °
				-121.375714 °	-121.375714 °
DWR ID	DWR_RD0001_01_s_2012_1				
Action/Comments					
Pipe Inspector Comments: Steel irrigation intake pipe up levee slope and through freeboard.					

Photo 1 of 1 : mkhashch_s_20140428_00373.jpg



View of irrigation intake pipe on waterside slope.

LM Start	0.02	Rating **	M	Issue No.	18
LM End	0.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.822511 °	37.822511 °
				-121.375857 °	-121.375857 °
DWR ID	DWR_RD0001_01_s_2012_18				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Several burrows present					

Photo 1 of 2 : mkhashch_s_20140428_00381.jpg



04/26/2011 Animal burrow in levee crown.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0001 Union Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.15	05/07/2014 05/07/2014	Maksim Khashchuk

LM Start	0.02	Rating **	M	Issue No.	18 (cont)
LM End	0.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.822511 °	37.822511 °	
			-121.375857 °	-121.375857 °	
DWR ID	DWR_RD0001_01_s_2012_18				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Several burrows present					

Photo 2 of 2 : mkhashch_s_20140428_00382.jpg



04/26/2011 Several burrows present in levee crown and landside slope.

LM Start	0.11	Rating **	C	Issue No.	24
LM End	1.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.822056 °	37.811775 °	
			-121.377382 °	-121.384764 °	
DWR ID	DWR_RD0001_01_f_2013_24				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	0.16	Rating **	N	Issue No.	12
LM End	0.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.821376 °	37.821376 °	
			-121.378044 °	-121.378044 °	
DWR ID	DWR_RD0001_01_s_2014_12				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : mkhashch_s_20140512_01001.jpg



View of the tree stump on the waterside levee slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0001 Union Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.15	05/07/2014 05/07/2014	Maksim Khashchuk

LM Start	0.20	Rating **	M	Issue No.	5
LM End	0.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.820989 °	37.820989 °	
			-121.378174 °	-121.378174 °	
DWR ID	DWR_RD0001_01_s_2013_5				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : mkhashch_s_20140512_01002.jpg



View of the erosion on the landside levee slope.

LM Start	0.23	Rating **	M	Issue No.	11
LM End	0.23	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.820362 °	37.820362 °	
			-121.378359 °	-121.378359 °	
DWR ID	DWR_RD0001_01_s_2014_11				
Action/Comments					
Material Inspector Comments: Stockpiled riprap on levee crown.					

Photo 1 of 1 : mkhashch_s_20140512_01000.jpg



View of the riprap stockpiled on the levee crown.

LM Start	0.39	Rating **	A/W	Issue No.	7
LM End	0.39	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.819651 °	37.819651 °	
			-121.380467 °	-121.380467 °	
DWR ID	DWR_RD0001_01_s_2012_7				
Action/Comments					
Pipe Inspector Comments: Irrigation intake through levee crown.					

Photo 1 of 1 : mkhashch_s_20140428_00377.jpg



View of the pipe through levee freeboard.

* 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0001 Union Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.15	05/07/2014 05/07/2014	Maksim Khashchuk

LM Start	0.53	Rating **	M	Issue No.	14
LM End	0.53	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.817651 °	37.817651 °	
			-121.379898 °	-121.379898 °	
DWR ID	DWR_RD0001_01_s_2014_14				
Action/Comments					
Material Inspector Comments: Riprap stockpiled on levee crown.					

Photo 1 of 1 : mkhashch_s_20140512_01003.jpg



View of the riprap stockpiled on the levee crown.

LM Start	0.66	Rating **	M	Issue No.	15
LM End	0.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.817249 °	37.817249 °	
			-121.382026 °	-121.382026 °	
DWR ID	DWR_RD0001_01_s_2012_15				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : mkhashch_s_20140428_00380.jpg



Rodent holes on levee slope.

LM Start	0.67	Rating **	A/W	Issue No.	20
LM End	0.67	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.817134 °	37.817134 °	
			-121.382099 °	-121.382099 °	
DWR ID	DWR_RD0001_01_s_2012_20				
Action/Comments					
Pipe Inspector Comments: Drainage discharge into Old River. No photo found from previous inspection. 04/26/2011 photo added.					

Photo 1 of 1 : mkhashch_s_20140428_00383.jpg



04/26/2011 Discharge pipe in waterside slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0001 Union Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.15	05/07/2014 05/07/2014	Maksim Khashchuk

LM Start	0.67	Rating **	M	Issue No.	27
LM End	0.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.817114 °	37.815070 °	
			-121.382203 °	-121.382486 °	
DWR ID	DWR_RD0001_01_f_2013_27				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	0.86	Rating **	A/W	Issue No.	10
LM End	0.86	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.814566 °	37.814566 °	
			-121.382450 °	-121.382450 °	
DWR ID	DWR_RD0001_01_s_2012_10				
Action/Comments					
Pipe Inspector Comments: Irrigation intake through levee freeboard.					

Photo 1 of 2 : mkhashch_s_20140428_00378.jpg



View of irrigation intake pipe on waterside.

LM Start	0.86	Rating **	A/W	Issue No.	10 (cont)
LM End	0.86	Issue Type +	En	Location *	LS

Photo 2 of 2 : mkhashch_s_20140428_00379.jpg



View of irrigation pipe on landside.

* 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0001 Union Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.15	05/07/2014 05/07/2014	Maksim Khashchuk

LM Start	0.88	Rating **	M	Issue No.	4
LM End	1.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.814357 °	37.812346 °	
			-121.382920 °	-121.383754 °	
DWR ID	DWR_RD0001_01_s_2014_4				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : mkhashch_s_20140512_00999.jpg



View of the vegetation on the landside levee slope.

LM Start	0.93	Rating **	M	Issue No.	25
LM End	1.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.814013 °	37.811775 °	
			-121.383700 °	-121.384764 °	
DWR ID	DWR_RD0001_01_f_2013_25				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : mkhashch_s_20140428_00386.jpg



View of the tall vegetation obstructing visibility of the waterside levee slope .

LM Start	1.09	Rating **	M	Issue No.	3
LM End	1.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.812021 °	37.812021 °	
			-121.384020 °	-121.384020 °	
DWR ID	DWR_RD0001_01_s_2013_3				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 1 : mkhashch_s_20140428_00375.jpg



View of the tire tracks on the landside levee slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0001 Union Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.15	05/07/2014 05/07/2014	Maksim Khashchuk

LM Start	1.12	Rating **	M	Issue No.	26
LM End	1.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.811896 °	37.811896 °	
			-121.384370 °	-121.384370 °	
DWR ID	DWR_RD0001_01_s_2014_26				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	1.14	Rating **	M	Issue No.	23
LM End	1.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.811775 °	37.811775 °	
			-121.384764 °	-121.384764 °	
DWR ID	DWR_RD0001_01_f_2013_23				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : mkhashch_s_20140428_00384.jpg



View of the rodent burrow on the landside slope.

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