

**Flood Control Project Maintenance  
Levee Inspections****LMA District Cover Sheet****Spring 2012 Levee Inspection Results****Reclamation District No. 2089 Stark**

	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.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2012 Levee Inspection Results**

**Reclamation District No. 2089 Stark**

Waterway			Bank	Unit Miles
Unit No. 01 Old River			Right	1.53
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/24/2012 - 5/24/2012			
DWR Inspector	Max 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 2012**

**Reclamation District No. 2089 Stark**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Old River						Right	1.53	05/24/2012 05/24/2012	Max Khashchuk	
LMR No.	Levee Mile		Category	Item	* Location	+ Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Earthen Levee	Operations & Maintenance Manuals	LS	A Ma		° °	° °	15
								DWR ID: DWR_RD2089_01_s_2012_15		
2			Earthen Levee	Emergency Supplies & Equipment	LS	A Ma		° °	° °	34
								DWR ID: DWR_RD2089_01_s_2012_34		
3			Earthen Levee	Flood Preparedness & Training	LS	A Ma		° °	° °	38
								DWR ID: DWR_RD2089_01_s_2012_38		
4	0.00	0.39	Earthen Levee	Encroachments	LS	M En	AD : Agricultural Ditch Inspector Comments: 05/24/2011 Photo added of Ag ditch.	37.811681 ° -121.384930 °	37.809755 ° -121.391520 °	9 Y
								DWR ID: DWR_RD2089_01_s_2012_9		
5	0.03	0.27	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Excessive vegetation on landside slope.	37.811487 ° -121.385479 °	37.810322 ° -121.389407 °	5 Y
								DWR ID: DWR_RD2089_01_s_2012_5		
6	0.04	0.04	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level. Inspector Comments: 05/24/2011 Issue is unchanged since Fall 2010 inspection photo attached.	37.811467 ° -121.385569 °	37.811467 ° -121.385569 °	3 Y
								DWR ID: DWR_RD2089_01_s_2012_3		
7	0.04	0.04	Earthen Levee	Encroachments	LS	A/W Ma	PI : Pipe Inspector Comments: Drainage pump	37.811467 ° -121.385569 °	37.811467 ° -121.385569 °	7 Y
								DWR ID: DWR_RD2089_01_s_2012_7		
8	0.04	0.04	Earthen Levee	Encroachments	LS	M Ma	ST : Stairways Inspector Comments: Steps have been cut into the levee slope, this could become an erosion point, please fill and compact.	37.811474 ° -121.385573 °	37.811474 ° -121.385573 °	1 Y
								DWR ID: DWR_RD2089_01_s_2012_1		
9	0.09	0.43	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Grass taller than 12 inches on levee slope.	37.811298 ° -121.386407 °	37.809588 ° -121.392103 °	63 Y
								DWR ID: DWR_RD2089_01_s_2012_63		
10	0.10	0.29	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Annual grass taller than 12".	37.811092 ° -121.386595 °	37.810210 ° -121.389710 °	64 Y
								DWR ID: DWR_RD2089_01_s_2012_64		
11	0.10	0.10	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level. Inspector Comments: Two scrub oaks obstruct access to levee slope. 05/24/2011 Issue has not changed since Fall 2010 inspection, photo attached	37.811272 ° -121.386703 °	37.811272 ° -121.386703 °	935 Y
								DWR ID: DWR_RD2089_01_s_2012_935		

**\* 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 2012**

**Reclamation District No. 2089 Stark**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Old River						Right	1.53	05/24/2012 05/24/2012	Max Khashchuk	
LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	Photo
	Start	End					Start	End		
12	0.18	0.18	Earthen Levee	Trim / Thin Trees	LS Ma	T1 : Trim trees to at least five feet above ground level. Inspector Comments: Trees are blocking visibility and access.	37.810802 ° -121.387969 °	37.810802 ° -121.387969 °	2 Y	
DWR ID: DWR_RD2089_01_s_2012_2										
13	0.23	0.23	Earthen Levee	Trim / Thin Trees	LS Ma	T1 : Trim trees to at least five feet above ground level. Inspector Comments: 05/24/2011 Issue is unchanged since Fall 2010. 11/10/2011 Trees have been limbed up, but needs to be limbed up further to provide full access and visibility.	37.810532 ° -121.388823 °	37.810532 ° -121.388823 °	938 Y	
DWR ID: DWR_RD2089_01_s_2012_938										
14	0.24	0.24	Earthen Levee	Trim / Thin Trees	LS Ma	T5 : Tree stumps. Inspector Comments: Stump greater than 2" on landside crown.	37.810499 ° -121.388884 °	37.810499 ° -121.388884 °	6 Y	
DWR ID: DWR_RD2089_01_s_2012_6										
15	0.24	0.24	Earthen Levee	Trim / Thin Trees	WS Ma	T1 : Trim trees to at least five feet above ground level. Inspector Comments: Issue has not changed since Fall 2010.	37.810490 ° -121.389018 °	37.810490 ° -121.389018 °	939 Y	
DWR ID: DWR_RD2089_01_s_2012_939										
16	0.24	0.24	Earthen Levee	Vegetation	LS Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Bamboo remains as an obstruction despite last years burning. 05/24/2011 Bamboo still remains, updated photo attached. 11/10/2011 Arundo has been trimmed back from the crown but still remains as an obstruction to the slope and obstructs visibility, needs to be removed. This plant was improperly identified as bamboo in previous inspections.	37.810488 ° -121.389018 °	37.810488 ° -121.389018 °	940 Y	
DWR ID: DWR_RD2089_01_s_2012_940										
17	0.26	0.26	Earthen Levee	Trim / Thin Trees	LS Ma	T5 : Tree stumps. Inspector Comments: Stump in levee crown.	37.810376 ° -121.389290 °	37.810376 ° -121.389290 °	8 Y	
DWR ID: DWR_RD2089_01_s_2012_8										
18	0.26	0.26	Earthen Levee	Trim / Thin Trees	LS Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Tree needs to be trimmed up to 5' to allow visibility and access during floodfight.	37.810346 ° -121.389319 °	37.810346 ° -121.389319 °	11 Y	
DWR ID: DWR_RD2089_01_s_2012_11										
19	0.27	0.39	Earthen Levee	Vegetation	LS Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Access and visibility completely blocked. 11/10/2011 issue has not changed.	37.810319 ° -121.389510 °	37.809740 ° -121.391645 °	12 Y	
DWR ID: DWR_RD2089_01_s_2012_12										
20	0.29	0.34	Earthen Levee	Trim / Thin Trees	LS Ma	T4 : Trim trees over roadway to at least 12 feet above ground level. Inspector Comments: Trees mixed with thick vegetation, trees need to be trimmed to 12' above roadway and to 5' elsewhere to permit access for flood fighting an visibility.	37.810219 ° -121.389805 °	37.809978 ° -121.390704 °	17 Y	
DWR ID: DWR_RD2089_01_s_2012_17										

**\* Location**

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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 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
21	0.34	0.34	Earthen Levee	Vegetation	LS U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Bamboo completely blocks access and visibility. 11/10/2011 Arundo has been trimmed back from the roadway, but still completely blocks access and visibility to the landside slope. This plant was improperly identified as bamboo in previous inspections.	37.809978 ° -121.390704 °	37.809978 ° -121.390704 °	19 Y
DWR ID: DWR_RD2089_01_s_2012_19									
22	0.38	0.38	Earthen Levee	Trim / Thin Trees	LS U Ma	T1 : Trim trees to at least five feet above ground level.	37.809865 ° -121.391303 °	37.809865 ° -121.391303 °	946 Y
DWR ID: DWR_RD2089_01_s_2012_946									
23	0.39	0.39	Earthen Levee	Trim / Thin Trees	LS M Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	37.809788 ° -121.391490 °	37.809788 ° -121.391490 °	26 Y
DWR ID: DWR_RD2089_01_s_2012_26									
24	0.41	0.41	Supplemental	DWR Erosion Survey	WSA/W Ma	Inspector Comments: 08/23/2011: Boat survey uncovered a 10-ft vertical scarp just upstream of the revetment. Vegetation and trees on site. 09/07/2010: Site appears to have been repaired by placing shot rock as rip rap protection. Note patches of seasonal grass on revetment. It is recommended that an inspection in the near future be conducted to verify the condition of the revetment. Site was previously rated "M". 08/06/2010: Recommended as local maintenance issue, per CLRO. 09/28/2009: Rock protection was recently placed along the upper slope; photographs need to be updated; site is recommended for annual assessment and monitoring of erosion site, per CLRO CES Evaluation 2008 Report; Site # is the same as RM29.84, LM0.30; previously rated "M". 11/05/2008: Two sites have been combined as one supersite; steep ws slope and downstream of a pump. 10/20/2006: Visited site 10/20/2006. [2011 Site ID: RD2089U01RM29.83]	37.809530 ° -121.392160 °	37.809530 ° -121.392160 °	52 Y
DWR ID: DWR_RD2089_01_s_2012_52									
25	0.42	0.48	Earthen Levee	Trim / Thin Trees	LS U Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Trees need to be trimmed to allow visibility and 12 feet over roadway. Too thick to allow access and visibility.	37.809643 ° -121.391869 °	37.809507 ° -121.392907 °	27 Y
DWR ID: DWR_RD2089_01_s_2012_27									
26	0.42	0.48	Earthen Levee	Vegetation	LS U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Vegetation is too thick to allow access and visibility.	37.809593 ° -121.391963 °	37.809507 ° -121.392907 °	28 Y
DWR ID: DWR_RD2089_01_s_2012_28									
27	0.45	0.45	Supplemental	DWR Erosion Survey	WS M Ma	Inspector Comments: 08/23/2011: The site shows loose material around the pipe crossing. The operation of the pipe might have caused certain impact on the levee. [2011 Site ID: RD2089U01RM29.8]	37.809394 ° -121.392791 °	37.809394 ° -121.392791 °	51 Y
DWR ID: DWR_RD2089_01_s_2012_51									
28	0.47	0.47	Earthen Levee	Encroachments	WSA/W PI : Pipe Ma		37.809494 ° -121.392787 °	37.809494 ° -121.392787 °	10 Y
DWR ID: DWR_RD2089_01_s_2012_10									

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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
29	0.50	0.50	Earthen Levee	Trim / Thin Trees	WS	U Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Trees need to be thinned, too dense to allow access in a flood fight situation. Woody vegetation has been sprayed, but needs to be removed to allow visibility and access..	37.809666 ° -121.393210 °	37.809666 ° -121.393210 °	29 Y
DWR ID: DWR_RD2089_01_s_2012_29										
30	0.50	0.50	Earthen Levee	Vegetation	LS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dead growth is too thick to allow access during flood fight situation and completely obstructs visibility of the landside toe.	37.809665 ° -121.393219 °	37.809665 ° -121.393219 °	30 Y
DWR ID: DWR_RD2089_01_s_2012_30										
31	0.56	0.56	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C3 : Add appropriate gravel or road base. Grade and compact. Inspector Comments: 11/10/2011 Minor depressions will cause ponding.	37.810087 ° -121.394200 °	37.810087 ° -121.394200 °	14 Y
DWR ID: DWR_RD2089_01_s_2012_14										
32	0.60	0.60	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level. Inspector Comments: 05/24/2011 Issue remains unchanged since Fall 2010, photo attached	37.810230 ° -121.394967 °	37.810230 ° -121.394967 °	950 Y
DWR ID: DWR_RD2089_01_s_2012_950										
33	0.64	1.53	Earthen Levee	Vegetation	WS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: 11/10/2011 Waterside vegetation is too thick to allow access and visibility.	37.810048 ° -121.395762 °	37.806534 ° -121.407531 °	18 Y
DWR ID: DWR_RD2089_01_s_2012_18										
34	0.64	0.64	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.810130 ° -121.395732 °	37.810130 ° -121.395732 °	951 Y
DWR ID: DWR_RD2089_01_s_2012_951										
35	0.66	0.66	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 08/23/2011: The 5-foot vertical scarp shows no significant change from the last year inspection. No new ersion activities observed. Dense white willow trees on site. 09/07/2010: It was difficult to view the erosion due to the thick Willow thickets and other vegetation at the water line. At the time of the inspection, there were no signs of repair on site. As noted during the last survey, there is a 5-foot vertical scarp along the lower slope that may be subjected to high flow velocities.08/05/2010: Recommended for repair, per CLRO; "Erosion of this site may be subjective to rapid rates of erosion."09/28/2009: No major change observed; 5-foot vertical scarp is immediately downstream of where berm has tapered; site is recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM29.6,LM0.60; previously rated "U".11/05/2008: No change observed; rodent holes on lower slope; wide levee crown. [2011 Site ID:RD2089U01RM29.61]	37.809780 ° -121.396230 °	37.809780 ° -121.396230 °	50 Y
DWR ID: DWR_RD2089_01_s_2012_50										

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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway						Bank	Unit Miles	Inspection Start/End		Inspector
Unit No. 01 Old River						Right	1.53	05/24/2012 05/24/2012		Max Khashchuk
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
36	0.67	0.68	Earthen Levee	Vegetation	LS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dead brush needs to be removed, too thick to allow access and obstructs visibility of levee slope and toe	37.809975 ° -121.396107 °	37.809822 ° -121.396376 °	31 Y
DWR ID: DWR_RD2089_01_s_2012_31										
37	0.67	0.67	Earthen Levee	Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Active burrows evident.	37.809974 ° -121.396110 °	37.809974 ° -121.396110 °	32 Y
DWR ID: DWR_RD2089_01_s_2012_32										
38	0.73	0.77	Earthen Levee	Vegetation	LS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: 11/10/2011 Dead vegetation prohibits visibility of the landside toe.	37.809516 ° -121.396955 °	37.808909 ° -121.397557 °	20 Y
DWR ID: DWR_RD2089_01_s_2012_20										
39	0.82	0.82	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma	Inspector Comments: Irrigation intake pump and pipe.	37.808427 ° -121.397827 °	37.808427 ° -121.397827 °	13 Y
DWR ID: DWR_RD2089_01_s_2012_13										
40	0.85	1.07	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Tall weeds and brush on top 20' of waterside slope obstruct visibility.	37.807938 ° -121.397898 °	37.806011 ° -121.399668 °	36 Y
DWR ID: DWR_RD2089_01_s_2012_36										
41	0.88	0.88	Earthen Levee	Trim / Thin Trees	LS	M Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: 11/10/2011 Tree needs to be trimmed up 5' to allow visibility of the landside slope and toe.	37.807502 ° -121.397781 °	37.807502 ° -121.397781 °	22 Y
DWR ID: DWR_RD2089_01_s_2012_22										
42	0.96	0.96	Earthen Levee	Vegetation	WS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: 11/10/2011 Large arundo on waterside prevents visibility and access to waterside slope.	37.806397 ° -121.397758 °	37.806397 ° -121.397758 °	33 Y
DWR ID: DWR_RD2089_01_s_2012_33										
43	0.97	0.97	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.806347 ° -121.397861 °	37.806347 ° -121.397861 °	37 Y
DWR ID: DWR_RD2089_01_s_2012_37										
44	0.98	0.98	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: 11/10/2011 Vegetation prevents access and visibility of the landside toe.	37.806266 ° -121.397960 °	37.806266 ° -121.397961 °	41 Y
DWR ID: DWR_RD2089_01_s_2012_41										
45	0.98	1.07	Earthen Levee	Vegetation	WS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: 11/10/2011 Thick vegetation blocks viability and access to top 20' of waterside slope.	37.806264 ° -121.397961 °	37.805885 ° -121.399726 °	35 Y
DWR ID: DWR_RD2089_01_s_2012_35										

**\* Location**

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**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River				Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

  

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
46	0.98	0.98	Earthen Levee	Encroachments	WS	M Ma	MA : Material Inspector Comments: Powerline wire must be removed from waterside slope.	37.806265 ° -121.398012 °	37.806265 ° -121.398012 °	65 Y
DWR ID: DWR_RD2089_01_s_2012_65										
47	1.04	1.06	Earthen Levee	Vegetation	LS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberry and tobacco block visibility.	37.806063 ° -121.398930 °	37.805967 ° -121.399348 °	956
DWR ID: DWR_RD2089_01_s_2012_956										
48	1.10	1.10	Earthen Levee	Vegetation	LS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability. Inspector Comments: Brush blocks access.	37.805848 ° -121.400003 °	37.805848 ° -121.400003 °	957
DWR ID: DWR_RD2089_01_s_2012_957										
49	1.16	1.16	Earthen Levee	Encroachments	LS	M Ma	PI : Pipe Inspector Comments: 11/10/2011 Two pieces of DI pipe need to be removed. Creates a possible obstruction to access during a floodfight.	37.805631 ° -121.401142 °	37.805631 ° -121.401142 °	42 Y
DWR ID: DWR_RD2089_01_s_2012_42										
50	1.16	1.16	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma		37.805623 ° -121.401207 °	37.805623 ° -121.401207 °	21 Y
DWR ID: DWR_RD2089_01_s_2012_21										
51	1.18	1.18	Supplemental	DWR Erosion Survey	WSA/W	Ma	Inspector Comments: 08/23/2011: Minor erosion activities are observed at the toe of the rip rap. Dense vegetation can block view for potential erosion. 09/07/2010: Site has been repaired. It appears that additional shot rock was placed on top of the exposed area, adding protection at the levee toe. Site was previously rated "M". 08/06/2010: Recommended as local maintenance issue, per CLRO.2009: Existing revetment just above the toe is sloughing; site is recommended for local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM29.10, LM1.10; previously rated "M". 10/20/2006: Toe slough; existing revetment. [2011 Site ID:RD2089U01RM29.11]	37.805530 ° -121.401700 °	37.805530 ° -121.401700 °	4 Y
DWR ID: DWR_RD2089_01_s_2012_4										
52	1.22	1.22	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Bamboo within top 20' of waterside levee slope.	37.805663 ° -121.402151 °	37.805663 ° -121.402151 °	25 Y
DWR ID: DWR_RD2089_01_s_2012_25										
53	1.25	1.25	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C3 : Add appropriate gravel or road base. Grade and compact. Inspector Comments: 11/10/2011 Depression needs to be filled.	37.805735 ° -121.402614 °	37.805735 ° -121.402614 °	43 Y
DWR ID: DWR_RD2089_01_s_2012_43										
54	1.26	1.26	Earthen Levee	Trim / Thin Trees	LS	U Ma	T1 : Trim trees to at least five feet above ground level. Inspector Comments: Improvements made, however trees remain obstructive. Updated photo 05/24/2011.	37.805770 ° -121.402790 °	37.805770 ° -121.402790 °	16 Y
DWR ID: DWR_RD2089_01_s_2012_16										

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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River				Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
55	1.26	1.26	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C3 : Add appropriate gravel or road base. Grade and compact. Inspector Comments: 11/10/2011 Depression in roadway needs ot be filled.	37.805801 ° -121.402913 °	37.805801 ° -121.402913 °	44 Y
DWR ID: DWR_RD2089_01_s_2012_44										
56	1.38	1.38	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C3 : Add appropriate gravel or road base. Grade and compact. Inspector Comments: 11/10/2011 Depression needs to be filled.	37.806128 ° -121.404890 °	37.806128 ° -121.404890 °	45 Y
DWR ID: DWR_RD2089_01_s_2012_45										
57	1.43	1.43	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: 11/10/2011 No rodents visible, but active burrows are present.	37.806268 ° -121.405874 °	37.806268 ° -121.405874 °	47 Y
DWR ID: DWR_RD2089_01_s_2012_47										
58	1.43	1.43	Earthen Levee	Encroachments	LS	M Ma	TR : Tree or limb Inspector Comments: 11/10/2011 Downed tree at levee toe prevents access to levee from landside..	37.806266 ° -121.405876 °	37.806266 ° -121.405876 °	46 Y
DWR ID: DWR_RD2089_01_s_2012_46										
59	1.45	1.45	Earthen Levee	Encroachments	CR	U Ma	PI : Pipe Inspector Comments: 11/10/2011 6" PVC piipe has been placed through the crown of the levee. PVC is not allowed, pipe is cut into the landside slope, encroachment is not permitted.	37.806312 ° -121.406148 °	37.806312 ° -121.406148 °	48 Y
DWR ID: DWR_RD2089_01_s_2012_48										
60	1.46	1.46	Earthen Levee	Encroachments	LS A/W	PI : Pipe Ma		37.806396 ° -121.406348 °	37.806396 ° -121.406348 °	40 Y
DWR ID: DWR_RD2089_01_s_2012_40										
61	1.47	1.47	Earthen Levee	Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Deep burrow on waterside needs to be filled.	37.806383 ° -121.406599 °	37.806383 ° -121.406599 °	49 Y
DWR ID: DWR_RD2089_01_s_2012_49										

**\* 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 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.39
Location	Land Side
Category	Earthen Levee
Item	Encroachments

05/24/2011 Ditch flows parallel with the utility line shown in the photo.

mkhashch\_s\_20120511\_096.jpg



Levee Mile Report Line	5
Start Levee Mile	0.03
End Levee Mile	0.27
Location	Land Side
Category	Earthen Levee
Item	Vegetation

11/10/2011 Landside vegetation obstructs visibility of the slope and toe.

mkhashch\_s\_20120511\_092.jpg



Levee Mile Report Line	6
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Trees on landside slope limit access and visibility.

mkhashch\_s\_20120511\_086.jpg



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

## Levee Inspection Report By Mile - Spring 2012

### Reclamation District No. 2089 Stark

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	6
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Condition of tree has not changed since Fall 2010 inspection.	
mkhashch_s_20120511_087.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Waterside of drainage discharge to Old River.	
mkhashch_s_20120511_094.jpg	



Levee Mile Report Line	8
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Land Side
Category	Earthen Levee
Item	Encroachments
05/24/2011 Steps are hard to discern in the photo, the top two steps are casting the two shadows located between the post and the photographer's shadow.	
mkhashch_s_20120511_084.jpg	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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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 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	8
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of steps in the landside slope just behind the post. 05/24/2012

mkhashch\_s\_20120525\_393.jpg



Levee Mile Report Line	9
Start Levee Mile	0.09
End Levee Mile	0.43
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of uncontrolled annual grass on landside levee slope. 05/24/2012

mkhashch\_s\_20120525\_394.jpg



Levee Mile Report Line	10
Start Levee Mile	0.10
End Levee Mile	0.29
Location	Water Side
Category	Earthen Levee
Item	Vegetation

View of tall grass blocking visibility of waterside levee hinge and slope. 05/24/2012

mkhashch\_s\_20120525\_396.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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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 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	11
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Issue remains unchanged since noted in the Fall 2010 inspection.	
mkhashch_s_20120511_145.jpg	



Levee Mile Report Line	12
Start Levee Mile	0.18
End Levee Mile	0.18
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Both trees shown need to be trimmed up 5' to allow visibility of landside slope.	
mkhashch_s_20120511_085.jpg	



Levee Mile Report Line	13
Start Levee Mile	0.23
End Levee Mile	0.23
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Tree was also noted in the Fall 20110 inspection.	
mkhashch_s_20120511_146.jpg	



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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	13
Start Levee Mile	0.23
End Levee Mile	0.23
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

11/10/2011 Tree has been limbed up, but still needs to be cleared around the bottom to permit access to the slope in the event of a flood fight.

mkhashch\_s\_20120511\_147.jpg



Levee Mile Report Line	14
Start Levee Mile	0.24
End Levee Mile	0.24
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/24/2011 Stump shown in center of photo.

mkhashch\_s\_20120511\_093.jpg



Levee Mile Report Line	15
Start Levee Mile	0.24
End Levee Mile	0.24
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/24/2011 Tree must be trimmed up 5'. Issue noted in Fall 2010 inspection.

mkhashch\_s\_20120511\_148.jpg



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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	16
Start Levee Mile	0.24
End Levee Mile	0.24
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Bamboo on levee slope and crown obstruct access and visibility.	
mkhashch_s_20120511_149.jpg	



Levee Mile Report Line	16
Start Levee Mile	0.24
End Levee Mile	0.24
Location	Land Side
Category	Earthen Levee
Item	Vegetation
05/24/2011 Bamboo has been trimmed back off of crown, but still completely blocks access and visibility.	
mkhashch_s_20120511_150.jpg	



Levee Mile Report Line	16
Start Levee Mile	0.24
End Levee Mile	0.24
Location	Land Side
Category	Earthen Levee
Item	Vegetation
11/10/2011 Arundo has been trimmed back, but vegetation on the landside slope must be cleared to 15' beyond the toe.	
mkhashch_s_20120511_151.jpg	



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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	17
Start Levee Mile	0.26
End Levee Mile	0.26
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/24/2011 Stump is located in center of photo.

mkhashch\_s\_20120511\_095.jpg



Levee Mile Report Line	18
Start Levee Mile	0.26
End Levee Mile	0.26
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

11/10/2011 Tree obstructs visibility and access to slope, needs to be limbed up to 5'.

mkhashch\_s\_20120511\_098.jpg



Levee Mile Report Line	19
Start Levee Mile	0.27
End Levee Mile	0.39
Location	Land Side
Category	Earthen Levee
Item	Vegetation

05/24/2011 Thick brush and wild rose completely block access and visibility of landside slope and toe.

mkhashch\_s\_20120511\_099.jpg



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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	20
Start Levee Mile	0.29
End Levee Mile	0.34
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/24/2011 Numerous trees and thick vegetation in area, trees need to be trimmed to 12' above roadway and up 5' on landside slope and toe to allow access and visibility.

mkhashch\_s\_20120511\_104.jpg



Levee Mile Report Line	20
Start Levee Mile	0.29
End Levee Mile	0.34
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Numerous trees and thick vegetation in area, trees are trimmed to 12' above roadway but not 5' on landside slope and toe to allow access and visibility.

mkhashch\_s\_20120525\_397.jpg



Levee Mile Report Line	21
Start Levee Mile	0.34
End Levee Mile	0.34
Location	Land Side
Category	Earthen Levee
Item	Vegetation

05/24/2011 Large bamboo prevents any access and completely obstructs visibility of landside slope and toe.

mkhashch\_s\_20120511\_106.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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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 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	21
Start Levee Mile	0.34
End Levee Mile	0.34
Location	Land Side
Category	Earthen Levee
Item	Vegetation

11/10/2011 Arundo has been trimmed back from the road, but needs to be removed to so that it does not obstruct visibility and access to the landside slope.

mkhashch\_s\_20120511\_107.jpg



Levee Mile Report Line	22
Start Levee Mile	0.38
End Levee Mile	0.38
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Trees on levee slope obstruct access and visibility.

mkhashch\_s\_20120511\_152.jpg



Levee Mile Report Line	23
Start Levee Mile	0.39
End Levee Mile	0.39
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/24/2011 Tree needs to be trimmed up 5' to allow access and visibility to landside slope.

mkhashch\_s\_20120511\_112.jpg



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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	24
Start Levee Mile	0.41
End Levee Mile	0.41
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of the scarp at the levee toe

mkhashch\_s\_20120511\_142.jpg



Levee Mile Report Line	24
Start Levee Mile	0.41
End Levee Mile	0.41
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

upstream view of the scarp.

mkhashch\_s\_20120511\_143.jpg



Levee Mile Report Line	24
Start Levee Mile	0.41
End Levee Mile	0.41
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the repaired site.

mkhashch\_s\_20120511\_144.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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	25
Start Levee Mile	0.42
End Levee Mile	0.48
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/24/2011 Trees need to be trimmed to 12' over roadway and up 5' on levee slope to allow access and visibility.

mkhashch\_s\_20120511\_113.jpg



Levee Mile Report Line	26
Start Levee Mile	0.42
End Levee Mile	0.48
Location	Land Side
Category	Earthen Levee
Item	Vegetation

05/24/2011 Photo shows thick dead vegetation and continuation of trees in area that are preventing access and visibility of landside slope and toe.

mkhashch\_s\_20120511\_114.jpg



Levee Mile Report Line	27
Start Levee Mile	0.45
End Levee Mile	0.45
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site. Note the color of material around the pipe crossing.

mkhashch\_s\_20120511\_138.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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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 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	27
Start Levee Mile	0.45
End Levee Mile	0.45
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site

mkhashch\_s\_20120511\_139.jpg



Levee Mile Report Line	27
Start Levee Mile	0.45
End Levee Mile	0.45
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site

mkhashch\_s\_20120511\_140.jpg



Levee Mile Report Line	27
Start Levee Mile	0.45
End Levee Mile	0.45
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site

mkhashch\_s\_20120511\_141.jpg



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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	28
Start Levee Mile	0.47
End Levee Mile	0.47
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Irrigation intake pump and pipe at LM 0.46.

mkhashch\_s\_20120511\_097.jpg



Levee Mile Report Line	29
Start Levee Mile	0.50
End Levee Mile	0.50
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/24/2011 Trees on waterside need to be thinned to allow access and visibility of top 20' of waterside slope.

mkhashch\_s\_20120511\_115.jpg



Levee Mile Report Line	29
Start Levee Mile	0.50
End Levee Mile	0.50
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

11/10/2011 Woody vegetation needs to be cleared off of the upper 20' of the waterside slope.

mkhashch\_s\_20120511\_116.jpg



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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	30
Start Levee Mile	0.50
End Levee Mile	0.50
Location	Land Side
Category	Earthen Levee
Item	Vegetation
05/24/2011 Dead brush is too thick to allow access and visibility of landside slope and toe.	
mkhashch_s_20120511_117.jpg	



Levee Mile Report Line	31
Start Levee Mile	0.56
End Levee Mile	0.56
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
11/10/2011 Depressions in crown.	
mkhashch_s_20120511_101.jpg	



Levee Mile Report Line	32
Start Levee Mile	0.60
End Levee Mile	0.60
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Issue was also noted in Fall 2010 inspection.	
mkhashch_s_20120511_153.jpg	



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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	33
Start Levee Mile	0.64
End Levee Mile	1.53
Location	Water Side
Category	Earthen Levee
Item	Vegetation

11/10/2011 Vegetation needs to be cleared on the upper 20' of the waterside slope.

mkhashch\_s\_20120511\_105.jpg



Levee Mile Report Line	35
Start Levee Mile	0.66
End Levee Mile	0.66
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site. The scarp is visible on the slope.

mkhashch\_s\_20120511\_134.jpg



Levee Mile Report Line	35
Start Levee Mile	0.66
End Levee Mile	0.66
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Downstream view of the site. Note the very dense white willow thickets on site.

mkhashch\_s\_20120511\_135.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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	35
Start Levee Mile	0.66
End Levee Mile	0.66
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site.

mkhashch\_s\_20120511\_136.jpg



Levee Mile Report Line	35
Start Levee Mile	0.66
End Levee Mile	0.66
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site.

mkhashch\_s\_20120511\_137.jpg



Levee Mile Report Line	36
Start Levee Mile	0.67
End Levee Mile	0.68
Location	Land Side
Category	Earthen Levee
Item	Vegetation

05/24/2011 Vegetation is mostly dead but needs to be removed to allow access and visibility of slope and toe.

mkhashch\_s\_20120511\_118.jpg



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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	37
Start Levee Mile	0.67
End Levee Mile	0.67
Location	Water Side
Category	Earthen Levee
Item	Animal Control

05/24/2011 Two active burrows shown in photo.

mkhashch\_s\_20120511\_119.jpg



Levee Mile Report Line	38
Start Levee Mile	0.73
End Levee Mile	0.77
Location	Land Side
Category	Earthen Levee
Item	Vegetation

11/10/2011 Vegetation obstructs visibility of slope and toe.

mkhashch\_s\_20120511\_108.jpg



Levee Mile Report Line	39
Start Levee Mile	0.82
End Levee Mile	0.82
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Irrigation intake pump and pipe on levee slope.

mkhashch\_s\_20120511\_100.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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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 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	40
Start Levee Mile	0.85
End Levee Mile	1.07
Location	Water Side
Category	Earthen Levee
Item	Vegetation

View of tall weeds and brush obstructing visibility on waterside slope. 05/24/2012

mkhashch\_s\_20120525\_398.jpg



Levee Mile Report Line	41
Start Levee Mile	0.88
End Levee Mile	0.88
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

11/10/2011 Tree appears to have been sprayed, needs to be limbed up 5' to allow for visibility of slope and toe.

mkhashch\_s\_20120511\_110.jpg



Levee Mile Report Line	42
Start Levee Mile	0.96
End Levee Mile	0.96
Location	Water Side
Category	Earthen Levee
Item	Vegetation

11/10/2011 Arundo on upper 20' of waterside slope.

mkhashch\_s\_20120511\_120.jpg



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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	43
Start Levee Mile	0.97
End Levee Mile	0.97
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Tree needs to be trimmed up 5'.	
mkhashch_s_20120511_122.jpg	



Levee Mile Report Line	44
Start Levee Mile	0.98
End Levee Mile	0.98
Location	Land Side
Category	Earthen Levee
Item	Vegetation
11/10/2011 Vegetation obstructs visibility of the slope and toe.	
mkhashch_s_20120511_124.jpg	



Levee Mile Report Line	45
Start Levee Mile	0.98
End Levee Mile	1.07
Location	Water Side
Category	Earthen Levee
Item	Vegetation
11/10/2011 Thick vegetation on upper 20; of waterside slope.	
mkhashch_s_20120511_121.jpg	



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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	46
Start Levee Mile	0.98
End Levee Mile	0.98
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of powerline wire on waterside slope.  
05/24/2012

mkhashch\_s\_20120525\_399.jpg



Levee Mile Report Line	49
Start Levee Mile	1.16
End Levee Mile	1.16
Location	Land Side
Category	Earthen Levee
Item	Encroachments

11/10/2011 Section of ductilie iron pipe that  
appears to be left from a pipe repair. Needs to be  
removed.

mkhashch\_s\_20120511\_125.jpg



Levee Mile Report Line	50
Start Levee Mile	1.16
End Levee Mile	1.16
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Drainage discharge into Old River.

mkhashch\_s\_20120511\_109.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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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 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	51
Start Levee Mile	1.18
End Levee Mile	1.18
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

A close view of the minor erosion activities.

mkhashch\_s\_20120511\_088.jpg



Levee Mile Report Line	51
Start Levee Mile	1.18
End Levee Mile	1.18
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site.

mkhashch\_s\_20120511\_089.jpg



Levee Mile Report Line	51
Start Levee Mile	1.18
End Levee Mile	1.18
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Close view of the minor erosion activities.

mkhashch\_s\_20120511\_090.jpg



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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	51
Start Levee Mile	1.18
End Levee Mile	1.18
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Close view of the minor erosion activities.

mkhashch\_s\_20120511\_091.jpg



Levee Mile Report Line	52
Start Levee Mile	1.22
End Levee Mile	1.22
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Bamboo on waterside levee slope obstructs access and visibility.

mkhashch\_s\_20120511\_111.jpg



Levee Mile Report Line	53
Start Levee Mile	1.25
End Levee Mile	1.25
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

11/10/2011 Depression in roadway.

mkhashch\_s\_20120511\_126.jpg



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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	54
Start Levee Mile	1.26
End Levee Mile	1.26
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Trees on levee slope obstruct access and visibility.

mkhashch\_s\_20120511\_102.jpg



Levee Mile Report Line	54
Start Levee Mile	1.26
End Levee Mile	1.26
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/24/2011 Trees have been trimmed since Fall 2010 inspection, however they still need to be trimmed up 5' to allow visibility of slope and access in a flood fight.

mkhashch\_s\_20120511\_103.jpg



Levee Mile Report Line	55
Start Levee Mile	1.26
End Levee Mile	1.26
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

11/10/2011 Roadway depression.

mkhashch\_s\_20120511\_127.jpg



**\* Location**

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WS : Water Side  
CR : Crown

**\*\* Rating**

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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 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	56
Start Levee Mile	1.38
End Levee Mile	1.38
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
11/10/2011 Roadway depression.	
mkhashch_s_20120511_128.jpg	



Levee Mile Report Line	57
Start Levee Mile	1.43
End Levee Mile	1.43
Location	Land Side
Category	Earthen Levee
Item	Animal Control
11/10/2011 Active rodent burrow on landside slope.	
mkhashch_s_20120511_130.jpg	



Levee Mile Report Line	58
Start Levee Mile	1.43
End Levee Mile	1.43
Location	Land Side
Category	Earthen Levee
Item	Encroachments
11/10/2011 Downed tree at toe needs to be removed.	
mkhashch_s_20120511_129.jpg	



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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	59
Start Levee Mile	1.45
End Levee Mile	1.45
Location	Crown
Category	Earthen Levee
Item	Encroachments
11/10/2011 Broken PVC pipe on waterside.	
mkhashch_s_20120511_131.jpg	



Levee Mile Report Line	59
Start Levee Mile	1.45
End Levee Mile	1.45
Location	Crown
Category	Earthen Levee
Item	Encroachments
11/10/2011 PVC pipe on landside slope. Pipe needs to be removed.	
mkhashch_s_20120511_132.jpg	



Levee Mile Report Line	60
Start Levee Mile	1.46
End Levee Mile	1.46
Location	Land Side
Category	Earthen Levee
Item	Encroachments
05/24/2011 pipe through levee, not previously noted in inspection.	
mkhashch_s_20120511_123.jpg	



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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.53	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	61
Start Levee Mile	1.47
End Levee Mile	1.47
Location	Water Side
Category	Earthen Levee
Item	Animal Control
11/10/2011 Deep burrow on waterside.	
mkhashch_s_20120511_133.jpg	



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

**Unit Cover Sheet**

**Spring 2012 Levee Inspection Results**

**Reclamation District No. 2089 Stark**

Waterway			Bank	Unit Miles
Unit No. 02 Salmon Slough			Right	1.37
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/24/2012 - 5/24/2012			
DWR Inspector	Max 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 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/24/2012 05/24/2012	Max Khashchuk

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.00	0.39	Earthen Levee	Vegetation	LS	M	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Vegetation on the levee slope and toe are partially obstructive.	37.806543 ° -121.407549 °	37.810094 ° -121.412438 °	19
DWR ID: DWR_RD2089_02_s_2012_19										
2	0.06	0.06	Earthen Levee	Trim / Thin Trees	LS	M	T4 : Trim trees over roadway to at least 12 feet above ground level. Inspector Comments: Two large oaks with hanging limbs over levee. Downed limb. 05/24/2011 photo added.	37.807108 ° -121.408488 °	37.807108 ° -121.408488 °	3 Y
DWR ID: DWR_RD2089_02_s_2012_3										
3	0.08	0.08	Earthen Levee	Vegetation	WS	U	V4 : Elderberries are blocking visibility and flood fight capability. Inspector Comments: Thick brush may include some elderberries. 05/24/2011 updated photo.	37.807375 ° -121.408605 °	37.807375 ° -121.408605 °	4 Y
DWR ID: DWR_RD2089_02_s_2012_4										
4	0.28	0.28	Earthen Levee	Animal Control	LS	M	A1 : Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Ground squirrel sighted and active borrowing in area	37.809717 ° -121.410511 °	37.809717 ° -121.410511 °	24 Y
DWR ID: DWR_RD2089_02_s_2012_24										
5	0.37	0.37	Earthen Levee	Encroachments	CR	M	FE : Fences Inspector Comments: Gates across levee.	37.810106 ° -121.412133 °	37.810106 ° -121.412133 °	2
DWR ID: DWR_RD2089_02_s_2012_2										
6	0.38	0.38	Earthen Levee	Animal Control	LS	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Active burrow needs to be repaired.	37.810125 ° -121.412317 °	37.810125 ° -121.412317 °	26 Y
DWR ID: DWR_RD2089_02_s_2012_26										
7	0.40	0.66	Earthen Levee	Vegetation	LS	M	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Tobacco leaf and other brush block access and visibility.	37.810109 ° -121.412619 °	37.812395 ° -121.415813 °	8 Y
DWR ID: DWR_RD2089_02_s_2012_8										
8	0.42	0.43	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 08/23/2011: No significant changes observed on site. 09/07/2010: Site consists of a jutting rip rap that has created an eddy, scouring the levee slope. Most sections of the toe and lower slope are lined with rip rap. However, the rip rap is sloughing on the mid slope and at the toe, exposing the underlying soils and tree roots. The remaining revetment is no longer adequately protecting the slope. There are 3 Sycamore trees at the toe with exposed tree roots. 08/05/2010: Recommended for repair, per CLRO.09/28/2009: Pocket erosion on lower slope just above the toe rip rap; protruding rip rap upstream is creating an eddy, scouring the levee slope; Site # is the same as RM28.40, LM0.30; previously rated "U"; pictures will be made available during the next survey. 11/05/2008: Cut into levee profile; riprap slide; rodent holes; pictures do not match GPS and current condition. [2011 Site ID: RD2089U02RM28.35]	37.809960 ° -121.413200 °	37.809960 ° -121.413200 °	1 Y
DWR ID: DWR_RD2089_02_s_2012_1										

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
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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 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/24/2012 05/24/2012	Max Khashchuk

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
9	0.46	0.46	Earthen Levee	Encroachments	WS	M En	BU : Buildings Inspector Comments: Portable toilet on bank, at water's edge.	37.810490 ° -121.413638 °	37.810490 ° -121.413638 °	27 Y
DWR ID: DWR_RD2089_02_s_2012_27										
10	0.49	0.49	Earthen Levee	Animal Control	CR	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Two old burrows that need to be filled.	37.810691 ° -121.414014 °	37.810691 ° -121.414014 °	13 Y
DWR ID: DWR_RD2089_02_s_2012_13										
11	0.49	0.49	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C3 : Add appropriate gravel or road base. Grade and compact. Inspector Comments: Surface depression needs to be filled.	37.810714 ° -121.414057 °	37.810714 ° -121.414057 °	10 Y
DWR ID: DWR_RD2089_02_s_2012_10										
12	0.54	0.54	Earthen Levee	Animal Control	WS	U Ma	A2 : Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: 11/10/2011 Repair damage to slope caused by livestock.	37.811150 ° -121.414748 °	37.811150 ° -121.414748 °	14 Y
DWR ID: DWR_RD2089_02_s_2012_14										
13	0.56	0.56	Earthen Levee	Encroachments	WSA/W	Ma	PI : Pipe Inspector Comments: Irrigation intake	37.811366 ° -121.415064 °	37.811366 ° -121.415064 °	12 Y
DWR ID: DWR_RD2089_02_s_2012_12										
14	0.70	0.70	Earthen Levee	Trim / Thin Trees	WS	M Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	37.812822 ° -121.415098 °	37.812822 ° -121.415098 °	50 Y
DWR ID: DWR_RD2089_02_s_2012_50										
15	0.82	0.82	Earthen Levee	Trim / Thin Trees	WS	M Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	37.814544 ° -121.414276 °	37.814544 ° -121.414276 °	37 Y
DWR ID: DWR_RD2089_02_s_2012_37										
16	0.82	0.86	Earthen Levee	Vegetation	LS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Wild growth and dead underbrush prevents visibility of levee slope and area cannot be accessed if needed for a flood fight.	37.814421 ° -121.414203 °	37.814913 ° -121.414594 °	36 Y
DWR ID: DWR_RD2089_02_s_2012_36										
17	0.85	0.85	Earthen Levee	Animal Control	WS	M Ma	A2 : Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: Livestock have worn paths into levee slope.	37.814773 ° -121.414555 °	37.814773 ° -121.414555 °	21
DWR ID: DWR_RD2089_02_s_2012_21										
18	0.85	0.85	Earthen Levee	Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Active burrows present.	37.814844 ° -121.414566 °	37.814844 ° -121.414566 °	38
DWR ID: DWR_RD2089_02_s_2012_38										
19	0.86	0.86	Earthen Levee	Vegetation	LS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberry and blackberry on levee slope.	37.814906 ° -121.414745 °	37.814906 ° -121.414745 °	25
DWR ID: DWR_RD2089_02_s_2012_25										

* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	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 - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough				Right	1.37	05/24/2012 05/24/2012	Max Khashchuk

  

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
20	0.86	0.86	Earthen Levee	Encroachments	CR	M En	FE : Fences Inspector Comments: Gate across levee crown.	37.814881 ° -121.414676 °	37.814881 ° -121.414676 °	9 Y
DWR ID: DWR_RD2089_02_s_2012_9										
21	0.87	0.92	Earthen Levee	Animal Control	LS	U Ma	A1 : Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Numerous burrows on landside slope adjacent to hay storage area. Deep burrows in crown and land side ramp.	37.814997 ° -121.414774 °	37.814970 ° -121.415767 °	40 Y
DWR ID: DWR_RD2089_02_s_2012_40										
22	0.95	0.95	Earthen Levee	Encroachments	WS	M Ma	PI : Pipe Inspector Comments: Debris/CMP on levee slope needsto be removed.	37.814940 ° -121.416499 °	37.814940 ° -121.416499 °	41 Y
DWR ID: DWR_RD2089_02_s_2012_41										
23	0.99	0.99	Earthen Levee	Encroachments	LS	M Ma	DE : Debris	37.814990 ° -121.416999 °	37.814990 ° -121.416999 °	28 Y
DWR ID: DWR_RD2089_02_s_2012_28										
24	1.02	1.14	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.815160 ° -121.417474 °	37.816499 ° -121.418824 °	42 Y
DWR ID: DWR_RD2089_02_s_2012_42										
25	1.07	1.07	Earthen Levee	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps. Inspector Comments: 14" dia stump. Could not verify overgrown with high weeds.	37.815629 ° -121.418133 °	37.815629 ° -121.418133 °	29 Y
DWR ID: DWR_RD2089_02_s_2012_29										
26	1.10	1.10	Earthen Levee	Encroachments	WS	M Ma	DE : Debris Inspector Comments: Water tanks disposed of on levee are obstructive.	37.816100 ° -121.418487 °	37.816100 ° -121.418487 °	17 Y
DWR ID: DWR_RD2089_02_s_2012_17										
27	1.15	1.15	Earthen Levee	Vegetation	WS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.816487 ° -121.418948 °	37.816487 ° -121.418948 °	30 Y
DWR ID: DWR_RD2089_02_s_2012_30										
28	1.18	1.18	Earthen Levee	Vegetation	LS	U Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.816905 ° -121.419247 °	37.816905 ° -121.419247 °	51 Y
DWR ID: DWR_RD2089_02_s_2012_51										
29	1.26	1.26	Earthen Levee	Vegetation	WS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.818051 ° -121.419743 °	37.818051 ° -121.419743 °	31 Y
DWR ID: DWR_RD2089_02_s_2012_31										
30	1.28	1.33	Earthen Levee	Encroachments	LS	U En	BU : Buildings Inspector Comments: Buildings and equipment encroach within 10-ft of landside toe. The boat was removed.	37.818277 ° -121.419725 °	37.819040 ° -121.419760 °	23 Y
DWR ID: DWR_RD2089_02_s_2012_23										
31	1.30	1.33	Earthen Levee	Trim / Thin Trees	WS	U Ma	T4 : Trim trees over roadway to at least 12 feet above ground level. Inspector Comments: Low hanging trees over crown road.	37.818607 ° -121.419660 °	37.818968 ° -121.419743 °	43 Y
DWR ID: DWR_RD2089_02_s_2012_43										
32	1.32	1.32	Earthen Levee	Vegetation	WS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.818829 ° -121.419776 °	37.818829 ° -121.419776 °	32 Y
DWR ID: DWR_RD2089_02_s_2012_32										

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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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 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	2
Start Levee Mile	0.06
End Levee Mile	0.06
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
05/24/2011 Issue noted in Fall 2010 inspection. Downed limb is visible beneath the overhanging limbs.	
mkhashch_s_20120511_158.jpg	



Levee Mile Report Line	3
Start Levee Mile	0.08
End Levee Mile	0.08
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Fall 2009 photo of unacceptable vegetation on levee slope.	
mkhashch_s_20120511_159.jpg	



Levee Mile Report Line	3
Start Levee Mile	0.08
End Levee Mile	0.08
Location	Water Side
Category	Earthen Levee
Item	Vegetation
05/24/2011 Updated photo of issue noted in Fall 2010 inspection.	
mkhashch_s_20120511_160.jpg	



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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	4
Start Levee Mile	0.28
End Levee Mile	0.28
Location	Land Side
Category	Earthen Levee
Item	Animal Control
05/24/2011 Active burrows, ground squirrel sighted in area.	
mkhashch_s_20120511_169.jpg	



Levee Mile Report Line	6
Start Levee Mile	0.38
End Levee Mile	0.38
Location	Land Side
Category	Earthen Levee
Item	Animal Control
05/24/2011 Active rodent burrow.	
mkhashch_s_20120511_170.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.40
End Levee Mile	0.66
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Fall 2009 photo: brush on landside toe limits visibility and accessibility.	
mkhashch_s_20120511_161.jpg	



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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	7
Start Levee Mile	0.40
End Levee Mile	0.66
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Brush on landside slope limits access.	
mkhashch_s_20120511_162.jpg	



Levee Mile Report Line	8
Start Levee Mile	0.42
End Levee Mile	0.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Upstream view of the site where minor erosion activities observed.	
mkhashch_s_20120511_154.jpg	



Levee Mile Report Line	8
Start Levee Mile	0.42
End Levee Mile	0.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
A closer look of the site with minor erosions.	
mkhashch_s_20120511_155.jpg	

**\* Location**

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CR : Crown

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**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	8
Start Levee Mile	0.42
End Levee Mile	0.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

A closer look of the site with minor erosions.

mkhashch\_s\_20120511\_156.jpg



Levee Mile Report Line	8
Start Levee Mile	0.42
End Levee Mile	0.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

A closer look of the site with minor erosions.

mkhashch\_s\_20120511\_157.jpg



Levee Mile Report Line	9
Start Levee Mile	0.46
End Levee Mile	0.46
Location	Water Side
Category	Earthen Levee
Item	Encroachments

05/24/2011 Portable toilet is in the shadows in the center of the photo at the water's edge.

mkhashch\_s\_20120511\_171.jpg



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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	10
Start Levee Mile	0.49
End Levee Mile	0.49
Location	Crown
Category	Earthen Levee
Item	Animal Control

11/10/2011 Two large burrows on crown, need to be filled.

mkhashch\_s\_20120511\_165.jpg



Levee Mile Report Line	11
Start Levee Mile	0.49
End Levee Mile	0.49
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

11/10/2011 Depression in crown needs to be filled.

mkhashch\_s\_20120511\_163.jpg



Levee Mile Report Line	12
Start Levee Mile	0.54
End Levee Mile	0.54
Location	Water Side
Category	Earthen Levee
Item	Animal Control

11/10/2011 Approximately 1' scarp has been created by livestock travel.

mkhashch\_s\_20120511\_166.jpg



**\* Location**

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WS : Water Side  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	13
Start Levee Mile	0.56
End Levee Mile	0.56
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Irrigation intake pump and pipe at waterside slope.

mkhashch\_s\_20120511\_164.jpg



Levee Mile Report Line	14
Start Levee Mile	0.70
End Levee Mile	0.70
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of low hanging branches over waterside slope and crown. 05/24/2012

mkhashch\_s\_20120525\_400.jpg



Levee Mile Report Line	15
Start Levee Mile	0.82
End Levee Mile	0.82
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/24/2011 Trees need to be trimmed up 12' over road.

mkhashch\_s\_20120511\_175.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	16
Start Levee Mile	0.82
End Levee Mile	0.86
Location	Land Side
Category	Earthen Levee
Item	Vegetation

05/24/2011 Extremely thick dead brush prevents access and visibility.

mkhashch\_s\_20120511\_174.jpg



Levee Mile Report Line	21
Start Levee Mile	0.87
End Levee Mile	0.92
Location	Land Side
Category	Earthen Levee
Item	Animal Control

05/24/2011 Deep vertical burrow in levee crown.

mkhashch\_s\_20120511\_176.jpg



Levee Mile Report Line	21
Start Levee Mile	0.87
End Levee Mile	0.92
Location	Land Side
Category	Earthen Levee
Item	Animal Control

05/24/2011 Deep vertical burrow in ramp on land side of levee.

mkhashch\_s\_20120511\_177.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	22
Start Levee Mile	0.95
End Levee Mile	0.95
Location	Water Side
Category	Earthen Levee
Item	Encroachments
05/24/2011 Old CMP left on waterside levee slope, needs to be removed.	
mkhashch_s_20120511_178.jpg	



Levee Mile Report Line	23
Start Levee Mile	0.99
End Levee Mile	0.99
Location	Land Side
Category	Earthen Levee
Item	Encroachments
05/24/2011 Concrete and metal debris at landside toe needs to be removed.	
mkhashch_s_20120511_172.jpg	



Levee Mile Report Line	25
Start Levee Mile	1.07
End Levee Mile	1.07
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
Tree stump >2" left after vegetation and tree removal.	
mkhashch_s_20120511_173.jpg	



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

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	26
Start Levee Mile	1.10
End Levee Mile	1.10
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of water tanks disposed on waterside slope.

mkhashch\_s\_20120525\_401.jpg



Levee Mile Report Line	28
Start Levee Mile	1.18
End Levee Mile	1.18
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of tall annual grass on landside levee slope and crown. 05/24/2012

mkhashch\_s\_20120525\_402.jpg



Levee Mile Report Line	30
Start Levee Mile	1.28
End Levee Mile	1.33
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Fall 2009 photo: boat and equipment stored within 10-ft of levee slope are an encroachment.

mkhashch\_s\_20120511\_167.jpg



**\* Location**

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**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Reclamation District No. 2089 Stark**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Salmon Slough	Right	1.37	05/24/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	30
Start Levee Mile	1.28
End Levee Mile	1.33
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Fall 2009 photo: Buildings and patio decks are built within 10-ft of the levee slope.

mkhashch\_s\_20120511\_168.jpg



Levee Mile Report Line	31
Start Levee Mile	1.30
End Levee Mile	1.33
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

05/24/2011 Low hanging trees need to be trimmed up 12' over road.

mkhashch\_s\_20120511\_179.jpg



Levee Mile Report Line	31
Start Levee Mile	1.30
End Levee Mile	1.33
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

View of low hanging branches over levee crown.  
05/24/2012

mkhashch\_s\_20120525\_403.jpg



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