

**Flood Control Project Maintenance  
Levee Inspections****LMA District Cover Sheet****Spring 2013 Levee Inspection Results****Reclamation District No. 2062 Stewart**

	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 2013 Levee Inspection Results**

**Reclamation District No. 2062 Stewart**

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	2.69
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/04/2013 - 04/04/2013			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Michael Moncrief MBK Engineers			

**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 2013**

**Reclamation District No. 2062 Stewart**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 San Joaquin River				Left	2.69	04/04/2013 04/04/2013	Maksim Khashchuk	

  

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1				Operations & Maintenance Manuals	WS	A Ma		°	°	2
DWR ID: DWR_RD2062_01_s_2013_2										
2				Emergency Supplies & Equipment	WS	A Ma		°	°	5
DWR ID: DWR_RD2062_01_s_2013_5										
3				Flood Preparedness & Training	WS	A Ma		°	°	8
DWR ID: DWR_RD2062_01_s_2013_8										
4	0.49	0.49		Animal Control	CR	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: 2 burrows, which may be cause of erosion at this location.	37.804807 ° -121.320754 °	37.804807 ° -121.320754 °	4 Y
DWR ID: DWR_RD2062_01_s_2012_4										
5	0.50	0.50		Erosion / Bank Caving	WS	M Ma	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: Erosion taking place at edge of crown.	37.804716 ° -121.320511 °	37.804716 ° -121.320511 °	3 Y
DWR ID: DWR_RD2062_01_s_2012_3										
6	0.57	0.57		Erosion / Bank Caving	WS	M Ma	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: Levee crown is approximately 100' at this point.	37.805106 ° -121.319154 °	37.805106 ° -121.319154 °	6 Y
DWR ID: DWR_RD2062_01_s_2012_6										
7	0.81	0.81		Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.804747 ° -121.315183 °	37.804747 ° -121.315183 °	7
DWR ID: DWR_RD2062_01_s_2012_7										

**\* 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 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.69	04/04/2013 04/04/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
8	0.91	0.91	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: No significant changes observed on site. Vegetation on the slope. There is a bridge construction site just upstream of the erosion. The impact of the construction may need to be monitored. 09/07/2010: No significant changes observed on site. Sloughing of the existing rip rap revetment on the lower slope has developed into an erosion pocket. There is moderate annual grass growth on the slope. 08/06/2010: Recommended as local maintenance issue, per CLRO. 03/09/2010: Per Michael Moncrief of MBK, site is scheduled for repair this year. 2009: Landside ground surface has been raised to the height of the levee crown; sloughing of the existing rip rap revetment on the lower slope that has created a pocket, exposing underlying soil; Site # is the same RM54.34,LM1.08; previously rated "M". 2006: Previously marked with stake. [2012 Site ID:RD2062U01RM54.14]	37.804080 ° -121.314060 °	37.804080 ° -121.314060 °	1 Y
DWR ID: DWR_RD2062_01_s_2013_1										
9	1.18	1.40		Crown Surface / Depressions / Rutting	CR	U Ma	C2 : Repair depressions or ruts in the crown or slope. Inspector Comments: High shoulder and slope of road will cause deep ponding. Approximately 1' deep.	37.800147 ° -121.313703 °	37.797164 ° -121.313976 °	15 Y
DWR ID: DWR_RD2062_01_s_2012_15										
10	1.67	1.67		Encroachments	WSA/W	PI : Pipe En		37.793516 ° -121.315335 °	37.793516 ° -121.315335 °	10 Y
DWR ID: DWR_RD2062_01_s_2012_10										
11	1.83	1.83		Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.791873 ° -121.313350 °	37.791873 ° -121.313350 °	11 Y
DWR ID: DWR_RD2062_01_s_2012_11										
12	1.84	1.84		Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.791887 ° -121.313178 °	37.791887 ° -121.313178 °	16 Y
DWR ID: DWR_RD2062_01_s_2012_16										
13	1.85	1.85		Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.791798 ° -121.312904 °	37.791798 ° -121.312904 °	12 Y
DWR ID: DWR_RD2062_01_s_2012_12										
14	2.04	2.04		Slope Stability	WS	M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	37.792877 ° -121.310063 °	37.792877 ° -121.310063 °	9 Y
DWR ID: DWR_RD2062_01_f_2012_9										
15	2.10	2.10		Slope Stability	WS	M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Damage at hinge point appears to be caused by heavy equipment traffic.	37.793656 ° -121.309610 °	37.793656 ° -121.309610 °	13 Y
DWR ID: DWR_RD2062_01_s_2012_13										

<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 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.69	04/04/2013 04/04/2013	Maksim Khashchuk

Levee Mile Report Line	4
Start Levee Mile	0.49
End Levee Mile	0.49
Location	Crown
Category	
Item	Animal Control
10/21/2011 Photo of burrow on crown, photo was taken day after inspection.	
mkhashch_s_20130225_402.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.50
End Levee Mile	0.50
Location	Water Side
Category	
Item	Erosion / Bank Caving
View of the erosion at the waterside levee hinge.	
mkhashch_s_20130410_712.JPG	



Levee Mile Report Line	6
Start Levee Mile	0.57
End Levee Mile	0.57
Location	Water Side
Category	
Item	Erosion / Bank Caving
05/11/2011 Erosion begins at crown, stakes shown in photo are supporting a silt fence. Silt fence is supporting soil and vegetation at crown.	
mkhashch_s_20130225_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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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.69	04/04/2013 04/04/2013	Maksim Khashchuk

Levee Mile Report Line	6
Start Levee Mile	0.57
End Levee Mile	0.57
Location	Water Side
Category	
Item	Erosion / Bank Caving
10/21/2011 Photo is taken from levee crown, issue has still not been addressed. Issue was noted in the Spring 2011 inspection.	
mkhashch_s_20130225_404.jpg	



Levee Mile Report Line	8
Start Levee Mile	0.91
End Levee Mile	0.91
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of the erosion site	
mkhashch_s_20130225_397.jpg	



Levee Mile Report Line	8
Start Levee Mile	0.91
End Levee Mile	0.91
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Front view of the rip rap	
mkhashch_s_20130225_398.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 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.69	04/04/2013 04/04/2013	Maksim Khashchuk

Levee Mile Report Line	9
Start Levee Mile	1.18
End Levee Mile	1.40
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting
10/20/2011 Berm is forming on the waterside edge of the crown. Berm is approximately 1' high in places.	
mkhashch_s_20130225_410.jpg	



Levee Mile Report Line	10
Start Levee Mile	1.67
End Levee Mile	1.67
Location	Water Side
Category	
Item	Encroachments
View of the pipe penetrating the waterside levee slope.	
mkhashch_s_20130410_711.JPG	



Levee Mile Report Line	11
Start Levee Mile	1.83
End Levee Mile	1.83
Location	Water Side
Category	
Item	Animal Control
10/20/2011 Large burrow located on waterside slope of levee.	
mkhashch_s_20130225_405.jpg	

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**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.69	04/04/2013 04/04/2013	Maksim Khashchuk

Levee Mile Report Line	11
Start Levee Mile	1.83
End Levee Mile	1.83
Location	Water Side
Category	
Item	Animal Control
10/20/2011 Large burrow located near crown on waterside slope of levee.	
mkhashch_s_20130225_406.jpg	



Levee Mile Report Line	11
Start Levee Mile	1.83
End Levee Mile	1.83
Location	Water Side
Category	
Item	Animal Control
10/20/2011 Large burrow located on waterside slope of levee.	
mkhashch_s_20130225_407.jpg	



Levee Mile Report Line	11
Start Levee Mile	1.83
End Levee Mile	1.83
Location	Water Side
Category	
Item	Animal Control
View of large burrow on waterside slope.	
mkhashch_s_20130225_408.JPG	

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.69	04/04/2013 04/04/2013	Maksim Khashchuk

Levee Mile Report Line	15
Start Levee Mile	2.10
End Levee Mile	2.10
Location	Water Side
Category	
Item	Slope Stability
05/11/2011 Damage seen in photo continues down the slope as if area was being used by equipment to access the bank.	
mkhashch_s_20130225_409.jpg	



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

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2013 Levee Inspection Results**

**Reclamation District No. 2062 Stewart**

Waterway			Bank	Unit Miles
Unit No. 02 Paradise Cut			Right	4.03
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/04/2013 - 04/04/2013			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Michael Moncrief MBK Engineers			

**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
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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 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	04/04/2013 04/04/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
1	0.11	0.49	Encroachments	WS	M Ma	AT : Agricultural tilling Inspector Comments: Discing for weed control is creating a 2' scarp.	37.778969 ° -121.334198 °	37.783406 ° -121.338086 °	4 Y
DWR ID: DWR_RD2062_02_s_2012_4									
2	0.57	0.57	Encroachments	LS	A/W En	PI : Pipe Inspector Comments: Drainage discharge pipe to Paradise Cut.	37.784356 ° -121.338975 °	37.784356 ° -121.338975 °	5 Y
DWR ID: DWR_RD2062_02_s_2012_5									
3	0.76	0.76	Encroachments	WSA/W	PI : Pipe En		37.786122 ° -121.341572 °	37.786122 ° -121.341572 °	8 Y
DWR ID: DWR_RD2062_02_s_2012_8									
4	1.40	1.40	Encroachments	WSA/W	PI : Pipe En	Inspector Comments: Irrigation intake from Paradise Cut.	37.791831 ° -121.350424 °	37.791831 ° -121.350424 °	10 Y
DWR ID: DWR_RD2062_02_s_2012_10									
5	1.67	1.67	Encroachments	WSA/W	PI : Pipe En	Inspector Comments: Two irrigation intakes.	37.794032 ° -121.354406 °	37.794032 ° -121.354406 °	11 Y
DWR ID: DWR_RD2062_02_s_2012_11									
6	2.04	2.04	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Burrow activity that appears to be active, no rodents seen.	37.797060 ° -121.359929 °	37.797060 ° -121.359929 °	12 Y
DWR ID: DWR_RD2062_02_s_2012_12									
7	2.10	2.10	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Multiple large burrows, appears to be active.	37.797558 ° -121.360815 °	37.797558 ° -121.360815 °	18 Y
DWR ID: DWR_RD2062_02_s_2012_18									
8	2.19	2.19	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Large single active burrow.	37.798304 ° -121.362138 °	37.798304 ° -121.362138 °	19 Y
DWR ID: DWR_RD2062_02_s_2012_19									
9	2.19	2.19	Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Single active burrow on water side.	37.798304 ° -121.362138 °	37.798304 ° -121.362138 °	20
DWR ID: DWR_RD2062_02_s_2012_20									
10	2.54	3.94	Encroachments	LS	M Ma	AT : Agricultural tilling Inspector Comments: Discing of the levee slope is the district's vegetation control method. Over time this could degrade the levee slope and create an integrity issue.	37.801211 ° -121.367142 °	37.808230 ° -121.390260 °	6 Y
DWR ID: DWR_RD2062_02_s_2012_6									
11	2.61	3.87	Vegetation	LS	C Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.801720 ° -121.368363 °	37.807312 ° -121.389477 °	7
DWR ID: DWR_RD2062_02_f_2012_7									
12	2.89	2.89	Trim / Thin Trees	WS	N Ma	T5 : Tree stumps. Inspector Comments: Three small tree stumps.	37.803827 ° -121.372424 °	37.803827 ° -121.372424 °	3 Y
DWR ID: DWR_RD2062_02_s_2012_3									

<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 2013**

**Reclamation District No. 2062 Stewart**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut				Right	4.03	04/04/2013 04/04/2013	Maksim Khashchuk

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
13	2.94	2.94		Trim / Thin Trees	WS	N Ma	T5 : Tree stumps. Inspector Comments: Four small oak stumps on levee slope.	37.804060 ° -121.373245 °	37.804060 ° -121.373245 °	13 Y
DWR ID: DWR_RD2062_02_s_2012_13										
14	3.03	3.03		Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.804452 ° -121.374903 °	37.804452 ° -121.374903 °	14
DWR ID: DWR_RD2062_02_s_2012_14										
15	3.07	3.07		Trim / Thin Trees	WS	N Ma	T5 : Tree stumps.	37.804481 ° -121.375510 °	37.804481 ° -121.375510 °	15
DWR ID: DWR_RD2062_02_s_2012_15										
16	3.12	3.12		Trim / Thin Trees	LS	N Ma	T5 : Tree stumps. Inspector Comments: Four small stumps on levee slope.	37.804473 ° -121.376528 °	37.804473 ° -121.376528 °	16
DWR ID: DWR_RD2062_02_s_2012_16										
17	3.27	3.28	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 07/26/2012: Site was visited on 07/26/2012. No significant changes observed. 09/02/2011: : No significant changes observed on site from last visit. 09/22/2010: No significant changes observed on site. The fencing located on the berm was removed. Levee slope and berm area 10 feet from the levee toe are bare of any vegetation. The 1- to 2 feet of near-vertical scarp on the levee toe is unchanged. 03/09/2010: As discussed with Michael Moncrief of MBK Engineer, the district will address the site this year. 7/27/2009: 1 to 2 feet of near-vertical scarp on the levee toe; damage was most likely caused by agricultural equipment during clearing or tilling operation; this is a maintenance-related issue. [2012 Site ID:RD2062U02RM2.14]	37.804604 ° -121.379454 °	37.804604 ° -121.379454 °	1 Y
DWR ID: DWR_RD2062_02_s_2013_1										
18	3.30	3.30		Encroachments	LS A/W	A/W En	PI : Pipe Inspector Comments: Two discharge pipes. Third pipe was capped and plugged. Project to relocate pumps because of seepage boils, was permitted.	37.804748 ° -121.379697 °	37.804748 ° -121.379697 °	17
DWR ID: DWR_RD2062_02_s_2012_17										
19	3.34	3.57		Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.804924 ° -121.380418 °	37.805789 ° -121.384330 °	21
DWR ID: DWR_RD2062_02_s_2013_21										

**\* Location**

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CR : Crown

**\*\* Rating**

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C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	04/04/2013 04/04/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
20	3.44	3.53	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 07/31/2012: Site was visited on 07/26/2012. No significant change observed. 09/02/2011: No significant changes observed on site from the previous visit. 09/22/2010: No significant changes observed on site. The foot-high near-vertical scarp still exists on levee toe. There is little to no vegetation on the slope. 03/09/2010: As discussed with Michael Moncrief of MBK, site will be addressed this year. 07/27/2009: 1 to 2 feet of near-vertical scarp on levee toe; damage was most likely caused by farming equipment during clearing or tilling operation; this is a maintenance-related issue. [2012 Site ID:RD2062U02RM1.94]	37.805422 ° -121.383173 °	37.805422 ° -121.383173 °	2 Y
DWR ID: DWR_RD2062_02_s_2013_2										
21	3.45	3.45		Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.805455 ° -121.382235 °	37.805455 ° -121.382235 °	41 Y
DWR ID: DWR_RD2062_02_s_2012_41										
22	3.68	3.68		Trim / Thin Trees	WS	N Ma	T5 : Tree stumps. Inspector Comments: Small stump on slope.	37.806231 ° -121.386209 °	37.806231 ° -121.386209 °	9 Y
DWR ID: DWR_RD2062_02_s_2012_9										

**\* 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 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	04/04/2013 04/04/2013	Maksim Khashchuk

Levee Mile Report Line	1
Start Levee Mile	0.11
End Levee Mile	0.49
Location	Water Side
Category	
Item	Encroachments

10/20/2011 Photo shows issue caused by discing (left side of photo) of the weeds on the waterside.

mkhashch\_s\_20130225\_415.jpg



Levee Mile Report Line	2
Start Levee Mile	0.57
End Levee Mile	0.57
Location	Land Side
Category	
Item	Encroachments

View of the pipe day lighting at the landside levee toe.

mkhashch\_s\_20130410\_704.JPG



Levee Mile Report Line	3
Start Levee Mile	0.76
End Levee Mile	0.76
Location	Water Side
Category	
Item	Encroachments

View of the pump house at the waterside levee hinge.

mkhashch\_s\_20130410\_705.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 2013

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	04/04/2013 04/04/2013	Maksim Khashchuk

Levee Mile Report Line	4
Start Levee Mile	1.40
End Levee Mile	1.40
Location	Water Side
Category	
Item	Encroachments

View of the pump house at the waterside levee hinge.

mkhashch\_s\_20130410\_706.JPG



Levee Mile Report Line	5
Start Levee Mile	1.67
End Levee Mile	1.67
Location	Water Side
Category	
Item	Encroachments

View of the pump house at the waterside levee hinge.

mkhashch\_s\_20130410\_707.JPG



Levee Mile Report Line	6
Start Levee Mile	2.04
End Levee Mile	2.04
Location	Land Side
Category	
Item	Animal Control

View of bait next to active burrow on landside slope.

mkhashch\_s\_20130225\_420.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
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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 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	04/04/2013 04/04/2013	Maksim Khashchuk

Levee Mile Report Line	7
Start Levee Mile	2.10
End Levee Mile	2.10
Location	Land Side
Category	
Item	Animal Control
10/20/2011 Photo shows single large burrow, which appears to be active.	
mkhashch_s_20130225_422.jpg	



Levee Mile Report Line	7
Start Levee Mile	2.10
End Levee Mile	2.10
Location	Land Side
Category	
Item	Animal Control
View of multiple burrow holes; the previously large burrow hole was not found at the time, but rodent activity is still present. 05/17/2012	
mkhashch_s_20130225_423.jpg	



Levee Mile Report Line	7
Start Levee Mile	2.10
End Levee Mile	2.10
Location	Land Side
Category	
Item	Animal Control
View of active burrows on landside slope.	
mkhashch_s_20130225_424.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 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	04/04/2013 04/04/2013	Maksim Khashchuk

Levee Mile Report Line	8
Start Levee Mile	2.19
End Levee Mile	2.19
Location	Land Side
Category	
Item	Animal Control
10/20/211 Single large burrow on landside, appears to be active.	
mkhashch_s_20130225_425.jpg	



Levee Mile Report Line	10
Start Levee Mile	2.54
End Levee Mile	3.94
Location	Land Side
Category	
Item	Encroachments
View of the vertical scarp created by discing.	
mkhashch_s_20130410_708.JPG	



Levee Mile Report Line	12
Start Levee Mile	2.89
End Levee Mile	2.89
Location	Water Side
Category	
Item	Trim / Thin Trees
Three small stumps on levee slope.	
mkhashch_s_20130225_414.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 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	04/04/2013 04/04/2013	Maksim Khashchuk

Levee Mile Report Line	13
Start Levee Mile	2.94
End Levee Mile	2.94
Location	Water Side
Category	
Item	Trim / Thin Trees

View of tree stumps on waterside slope.  
05/17/2012

mkhashch\_s\_20130225\_421.jpg



Levee Mile Report Line	17
Start Levee Mile	3.27
End Levee Mile	3.28
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Downstream view of scarp caused by a  
maintenance equipment.

mkhashch\_s\_20130225\_411.jpg



Levee Mile Report Line	17
Start Levee Mile	3.27
End Levee Mile	3.28
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Close view of scarp.

mkhashch\_s\_20130225\_412.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 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	4.03	04/04/2013 04/04/2013	Maksim Khashchuk

Levee Mile Report Line	20
Start Levee Mile	3.44
End Levee Mile	3.53
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of site. Note the vertical scarp at the toe.

mkhashch\_s\_20130225\_413.jpg



Levee Mile Report Line	21
Start Levee Mile	3.45
End Levee Mile	3.45
Location	Land Side
Category	
Item	Trim / Thin Trees

View of bushy trees at levee toe obstructing visibility. 05/17/2012

mkhashch\_s\_20130225\_426.jpg



Levee Mile Report Line	22
Start Levee Mile	3.68
End Levee Mile	3.68
Location	Water Side
Category	
Item	Trim / Thin Trees

05/11/2011 Small stump in waterside slope.

mkhashch\_s\_20130225\_419.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**

**Unit Cover Sheet**

**Spring 2013 Levee Inspection Results**

**Reclamation District No. 2062 Stewart**

Waterway			Bank	Unit Miles
Unit No. 03 Old River			Left	5.63
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/04/2013 - 04/04/2013			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Michael Moncrief MBK Engineers			

**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 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	04/04/2013 04/04/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
1	-0.03	0.07	Supplemental	DWR Erosion Survey	WS U Ma	Inspector Comments: 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: Site is at the upstream of a drainage ditch. [2012 Site ID:RD2062U03RM29.93]	37.809673 ° -121.390321 °	37.809673 ° -121.390321 °	1 Y
DWR ID: DWR_RD2062_03_s_2013_1									
2	0.08	0.08		Trim / Thin Trees	WS N Ma	T5 : Tree stumps.	37.809727 ° -121.389100 °	37.809727 ° -121.389100 °	3 Y
DWR ID: DWR_RD2062_03_f_2012_3									
3	0.10	0.11	Supplemental	DWR Erosion Survey	WS M Ma	Inspector Comments: 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: Hard to view the erosion because of the dense vegetation and trees on site. The site is under the bush, close to the tree. [2012 Site ID:RD2062U03RM30.02]	37.810052 ° -121.388847 °	37.810052 ° -121.388847 °	2 Y
DWR ID: DWR_RD2062_03_s_2013_2									
4	0.17	0.17		Trim / Thin Trees	WS N Ma	T5 : Tree stumps.	37.810194 ° -121.387602 °	37.810194 ° -121.387602 °	6
DWR ID: DWR_RD2062_03_s_2012_6									
5	0.18	0.18	Supplemental	DWR Erosion Survey	WS M Ma	Inspector Comments: 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: The protection at the levee toe has been washed away. [2012 Site ID:RD2062U03RM30.1]	37.810468 ° -121.387492 °	37.810468 ° -121.387492 °	4 Y
DWR ID: DWR_RD2062_03_s_2013_4									
6	0.23	0.32	Supplemental	DWR Erosion Survey	WS U Ma	Inspector Comments: 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: No significant changes observed on site. Dense vegetation visible along the water line. 09/07/2010: No significant changes observed on site. Much of the upper slope was recently cleared of vegetation by spraying. 4- to 6-foot vertical scarp and pocket erosions are lined along a span of 475 feet. In some sections, the vertical scarp encroaches into the levee prism. There is a lack of berm along this reach, exposing the levee slope to high flow velocities during normal and flood events. 08/06/2010: Recommended as local maintenance issue, per CLRO. 03/09/2010: As discussed with Michael Moncrief of MBK Engineers, the site will be 'addressed' later this year. 09/29/2009: No major change observed since last visit; pocket erosion and a vertical scarp forming; this site was combined with Site RM30.13 and 30.02 with a combined total erosion length of 475 feet; recommended as annual assessment and monitoring of site, per CLRO CES Evaluation 2008 Report; previously rated "M". 11/05/2008: Top of vertical scarp has rip rap that appears to be sliding; rodent holes; existing toe rip rap. [2012 Site ID:RD2062U03RM30.19]	37.810609 ° -121.385879 °	37.810609 ° -121.385879 °	5 Y
DWR ID: DWR_RD2062_03_s_2013_5									

<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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# Reclamation District No. 2062 Stewart

14	0.82	0.82	Erosion / Bank Caving	WS M Ma	E2 : Schedule repair of erosion site prior to the next inspection.	37.816315 ° -121.381587 °	37.816315 ° -121.381587 °	11 Y
DWR ID: DWR_RD2062_03_s_2012_11								

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# Reclamation District No. 2062 Stewart

DWR ID: DWR\_RD2062\_03\_s\_2013\_29

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	04/04/2013 04/04/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
18	1.52	1.52		Trim / Thin Trees	WS N Ma	T5 : Tree stumps.	37.821388 ° -121.374947 °	37.821388 ° -121.374947 °	14
DWR ID: DWR_RD2062_03_s_2012_14									
19	1.67	1.67		Trim / Thin Trees	WS N Ma	T5 : Tree stumps.	37.820890 ° -121.372227 °	37.820890 ° -121.372227 °	15 Y
DWR ID: DWR_RD2062_03_s_2012_15									
20	1.78	1.78		Trim / Thin Trees	WS N Ma	T5 : Tree stumps.	37.820902 ° -121.370565 °	37.820902 ° -121.370565 °	16
DWR ID: DWR_RD2062_03_s_2012_16									
21	2.15	2.15		Encroachments	WSA/W En	PI : Pipe Inspector Comments: Irrigation intake.	37.818645 ° -121.364894 °	37.818645 ° -121.364894 °	19
DWR ID: DWR_RD2062_03_s_2012_19									
22	2.80	2.80		Encroachments	WSA/W En	PI : Pipe Inspector Comments: Irrigation intake	37.816364 ° -121.354348 °	37.816364 ° -121.354348 °	21
DWR ID: DWR_RD2062_03_s_2012_21									
23	2.83	2.83		Trim / Thin Trees	WS N Ma	T5 : Tree stumps.	37.816341 ° -121.354008 °	37.816341 ° -121.354008 °	22
DWR ID: DWR_RD2062_03_s_2012_22									
24	2.90	2.90		Trim / Thin Trees	WS N Ma	T5 : Tree stumps.	37.816330 ° -121.352775 °	37.816330 ° -121.352775 °	23
DWR ID: DWR_RD2062_03_s_2012_23									
25	3.07	3.07		Trim / Thin Trees	WS N Ma	T5 : Tree stumps.	37.817791 ° -121.350088 °	37.817791 ° -121.350088 °	25
DWR ID: DWR_RD2062_03_s_2012_25									
26	3.14	3.14		Trim / Thin Trees	WS N Ma	T5 : Tree stumps.	37.818532 ° -121.349510 °	37.818532 ° -121.349510 °	26
DWR ID: DWR_RD2062_03_s_2012_26									
27	3.44	3.44		Trim / Thin Trees	WS N Ma	T5 : Tree stumps.	37.819172 ° -121.345760 °	37.819172 ° -121.345760 °	28
DWR ID: DWR_RD2062_03_s_2012_28									
28	3.80	3.80		Trim / Thin Trees	WS M Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Beaver damaged a tree; remove from slope.	37.817160 ° -121.340933 °	37.817160 ° -121.340933 °	53 Y
DWR ID: DWR_RD2062_03_s_2012_53									
29	4.20	4.20		Trim / Thin Trees	WS N Ma	T5 : Tree stumps.	37.820407 ° -121.338122 °	37.820407 ° -121.338122 °	33
DWR ID: DWR_RD2062_03_s_2012_33									
30	4.51	4.51		Animal Control	LS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.818027 ° -121.333612 °	37.818027 ° -121.333612 °	17
DWR ID: DWR_RD2062_03_f_2012_17									
31	4.82	4.82		Trim / Thin Trees	LS N Ma	T5 : Tree stumps. Inspector Comments: 14" stump on landside slope.	37.813986 ° -121.335821 °	37.813986 ° -121.335821 °	7 Y
DWR ID: DWR_RD2062_03_s_2012_7									
32	4.83	4.83		Animal Control	WS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.812791 ° -121.336074 °	37.812791 ° -121.336074 °	43 Y
DWR ID: DWR_RD2062_03_s_2012_43									

<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 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	04/04/2013 04/04/2013	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
33	5.45	5.45	Encroachments	WSA/W	PI : Pipe			37.807321 °	37.807321 °	34
				En	Inspector Comments: Two large irrigation intake pumps and pipes.			-121.331292 °	-121.331292 °	Y

DWR ID: DWR\_RD2062\_03\_s\_2012\_34

**\* 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 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	04/04/2013 04/04/2013	Maksim Khashchuk

Levee Mile Report Line	1
Start Levee Mile	-0.03
End Levee Mile	0.07
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of erosion

mkhashch\_s\_20130225\_427.jpg



Levee Mile Report Line	2
Start Levee Mile	0.08
End Levee Mile	0.08
Location	Water Side
Category	
Item	Trim / Thin Trees

View of tree stumps on waterside slope.

mkhashch\_s\_20130225\_429.JPG



Levee Mile Report Line	3
Start Levee Mile	0.10
End Levee Mile	0.11
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

close view of the site

mkhashch\_s\_20130225\_428.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 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	04/04/2013 04/04/2013	Maksim Khashchuk

Levee Mile Report Line	5
Start Levee Mile	0.18
End Levee Mile	0.18
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Direct view of the site. The erosion is vertical

mkhashch\_s\_20130225\_430.jpg



Levee Mile Report Line	6
Start Levee Mile	0.23
End Levee Mile	0.32
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the 5-ft vertical scarp .

mkhashch\_s\_20130225\_431.jpg



Levee Mile Report Line	8
Start Levee Mile	0.35
End Levee Mile	0.35
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of the erosion.

mkhashch\_s\_20130225\_438.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 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	04/04/2013 04/04/2013	Maksim Khashchuk

Levee Mile Report Line	11
Start Levee Mile	0.56
End Levee Mile	0.57
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Close view of the site.

mkhashch\_s\_20130225\_439.jpg



Levee Mile Report Line	12
Start Levee Mile	0.61
End Levee Mile	0.61
Location	Water Side
Category	
Item	Trim / Thin Trees

05/11/2011 Stump in slope, new growth in center of photo is at the location of the stump.

mkhashch\_s\_20130225\_435.jpg



Levee Mile Report Line	14
Start Levee Mile	0.82
End Levee Mile	0.82
Location	Water Side
Category	
Item	Erosion / Bank Caving

View of slope erosion from foot traffic.

mkhashch\_s\_20130225\_436.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 2013

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	04/04/2013 04/04/2013	Maksim Khashchuk

Levee Mile Report Line	15
Start Levee Mile	1.20
End Levee Mile	1.21
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site. Existing scalloped erosion is immediately downstream of rip rap section.

mkhashch\_s\_20130225\_440.jpg



Levee Mile Report Line	16
Start Levee Mile	1.37
End Levee Mile	1.37
Location	Water Side
Category	
Item	Vegetation

05/11/2011 Elderberry bush on water side slope.

mkhashch\_s\_20130225\_437.jpg



Levee Mile Report Line	17
Start Levee Mile	1.42
End Levee Mile	1.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Close view of the site where a small to medium sized Oak tree is located.

mkhashch\_s\_20130225\_441.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 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	04/04/2013 04/04/2013	Maksim Khashchuk

Levee Mile Report Line	17
Start Levee Mile	1.42
End Levee Mile	1.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

A closer look of the site near the oak tree

mkhashch\_s\_20130225\_442.jpg



Levee Mile Report Line	17
Start Levee Mile	1.42
End Levee Mile	1.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the site. Note existing broken concrete on the upper slope as well as on the lower slope and at the toe.

mkhashch\_s\_20130225\_443.jpg



Levee Mile Report Line	19
Start Levee Mile	1.67
End Levee Mile	1.67
Location	Water Side
Category	
Item	Trim / Thin Trees

View of the tree stump on the waterside levee slope.

mkhashch\_s\_20130410\_709.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 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	04/04/2013 04/04/2013	Maksim Khashchuk

Levee Mile Report Line	28
Start Levee Mile	3.80
End Levee Mile	3.80
Location	Water Side
Category	
Item	Trim / Thin Trees

View of damaged tree by beaver on waterside slope.

mkhashch\_s\_20130225\_446.JPG



Levee Mile Report Line	31
Start Levee Mile	4.82
End Levee Mile	4.82
Location	Land Side
Category	
Item	Trim / Thin Trees

10/21/2011 Photo taken the next day. Stump can be seen in the lower center of the photo.

mkhashch\_s\_20130225\_432.jpg



Levee Mile Report Line	32
Start Levee Mile	4.83
End Levee Mile	4.83
Location	Water Side
Category	
Item	Animal Control

Animal burrow on levee slope.

mkhashch\_s\_20130225\_444.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 2013**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.63	04/04/2013 04/04/2013	Maksim Khashchuk

Levee Mile Report Line	32
Start Levee Mile	4.83
End Levee Mile	4.83
Location	Water Side
Category	
Item	Animal Control

Animal burrows on levee slope.

mkhashch\_s\_20130225\_445.jpg



Levee Mile Report Line	33
Start Levee Mile	5.45
End Levee Mile	5.45
Location	Water Side
Category	
Item	Encroachments

View of the pipe penetrating the waterside levee slope.

mkhashch\_s\_20130410\_710.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