

**Flood Control Project Maintenance
Levee Inspections**

Fall 2012 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD2095		Overall LMA Rating	Total LMA Miles						
Reclamation District No. 2095 Paradise Cut		M	4.83						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation	0.05	0.01	0.09	1.86%					
Trim / Thin Trees	0.01		0.01	0.21%					
Encroachments	0.01		0.01	0.21%	0.51				
Slope Stability	0.01		0.01	0.21%					
Crown Surface / Depressions / Rutting	0.33		0.33	6.83%					
<i>Supplemental</i>									
DWR Erosion Survey	0.09	0.01	0.13	2.69%					
<i>LMA Totals:</i>	0.50	0.02	0.58	12.01%	0.51	0.00	0.00	0.00	
Unit No. 01 Paradise Cut LB		Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
RD2095		M *	1.45						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation	0.01		0.01	0.69%					
Trim / Thin Trees	0.01		0.01	0.69%					
Encroachments	0.01		0.01	0.69%	0.02				
Slope Stability	0.01		0.01	0.69%					
<i>Supplemental</i>									
DWR Erosion Survey	0.01	0.01	0.05	3.45%					
<i>Unit Totals:</i>	0.05	0.01	0.09	6.21% *	0.02	0.00	0.00	0.00	
Unit No. 02 San Joaquin River LB		Overall Unit Rating	Total Unit Miles						
RD2095		M	3.38						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation	0.04	0.01	0.08	2.37%					
Encroachments					0.49				
Crown Surface / Depressions / Rutting	0.33		0.33	9.76%					
<i>Supplemental</i>									
DWR Erosion Survey	0.08		0.08	2.37%					
<i>Unit Totals:</i>	0.45	0.01	0.49	14.50%	0.49	0.00	0.00	0.00	

**Flood Control Project Maintenance
Levee Inspections
LMA District Cover Sheet
Fall 2012 Levee Inspection Results**

Reclamation District No. 2095 Paradise Cut

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

** 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

Fall 2012 Levee Inspection Results

Reclamation District No. 2095 Paradise Cut

Waterway		Bank	Unit Miles
Unit No. 01 Paradise Cut		Left	1.45

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	05/18/2012 - 05/18/2012		11/07/2012 - 11/07/2012	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Bob Pombo RD 2095		Bob Pombo RD 2095	
	Rosie Silva RD 2095		Rosie Silva RD 2095	

Summer & Winter Inspections

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

DWR must be informed on the:

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

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2095 Paradise Cut

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut		Left	1.45	11/07/2012 11/07/2012	Maksim Khashchuk

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1			Earthen Levee	Operations & Maintenance Manuals	WS	A Ma		°	°	3
								DWR ID: DWR_RD2095_01_s_2012_3		
2			Earthen Levee	Emergency Supplies & Equipment	WS	A Ma		°	°	4
								DWR ID: DWR_RD2095_01_s_2012_4		
3			Earthen Levee	Flood Preparedness & Training	WS	A Ma		°	°	6
								DWR ID: DWR_RD2095_01_s_2012_6		
4	0.15	0.15	Earthen Levee	Encroachments	WS	M En	RA : Ramp	37.769977 ° -121.325012 °	37.769977 ° -121.325012 °	32 Y
								DWR ID: DWR_RD2095_01_s_2012_32		
5	0.19	0.19	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove pile of tumbleweeds from levee toe.	37.769643 ° -121.324363 °	37.769643 ° -121.324363 °	7
								DWR ID: DWR_RD2095_01_f_2012_7		
6	0.35	0.35	Earthen Levee	Encroachments	CR A/W	Ma	PI : Pipe Inspector Comments: No closure devices or flap gate on discharge pipe. Pipe penetrates freeboard of levee.	37.767822 ° -121.322835 °	37.767822 ° -121.322835 °	5
								DWR ID: DWR_RD2095_01_s_2012_5		
7	0.35	0.35	Earthen Levee	Encroachments	WS	M Ma	PR : Prunings Inspector Comments: Remove fallen branches from slope.	37.767615 ° -121.322817 °	37.767615 ° -121.322817 °	8
								DWR ID: DWR_RD2095_01_f_2012_8		
8	0.70	0.70	Earthen Levee	Encroachments	WS A/W	Ma	PI : Pipe Inspector Comments: Irrigation intake penetrates levee freeboard. No positive closure device present.	37.763780 ° -121.319147 °	37.763780 ° -121.319147 °	10
								DWR ID: DWR_RD2095_01_s_2012_10		
9	0.70	0.70	Earthen Levee	Encroachments	LS	M En	BU : Building Inspector Comments: Pump house near RR.	37.763630 ° -121.319045 °	37.763630 ° -121.319045 °	11
								DWR ID: DWR_RD2095_01_s_2012_11		

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

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	11/07/2012 11/07/2012	Maksim Khashchuk

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

10	0.73	0.74	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 07/18/2012: No significant changes observed on site. 09/02/2011: No significant changes observed on site. 09/22/2010: No significant changes observed on site. There is now considerable vegetation at the water line and along the lower berm slope. However, the erosion on the lower berm slope is still present and has not been corrected. 08/06/2010: Recommended for local maintenance issue, per CLRO. 07/29/2009: No major change since last visit; noticeable vegetation growth; erosion is on berm, but if left untreated, it will eventually erode into levee prism; site is recommended for annual assessment and monitoring of site, per CLRO CES 2008 Report; Site # is the same as RM6.80,LM0.73; previously rated "U". 07/22/2008: Downstream of WPRR near siphon pipe & pump; sandy levee; visited by Jeff Van Gilder and LRO in 2008 for repair assessment; scouring downstream of RxR crossing, possibly caused by eddy effects. 03/13/2007: Site visited on 03/13/2007. [2012 Site ID:RD2095U01RM6.74]	37.763630 ° -121.319000 °	37.763630 ° -121.319000 °	1 Y
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DWR ID:

11	0.86	0.86	Supplemental	DWR Erosion Survey	WS	U Ma	Inspector Comments: 07/18/2012: No significant changes observed. 09/02/2011: No significant changes observed. 09/22/2010: No significant changes observed. Sloughing of the existing rip rap possibly due to a combination of steep slope and undesirable flood conditions. 08/06/2010: Recommended as local maintenance issue, per CLRO. 07/29/2009: No major change observed since last visit; near-vertical slope that has rip rap sloughing; site is recommended as a local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM6.90,LM0.86; previously rated "U". 07/22/2008: Previous erosion site that is partially protected with concrete rubble; erosion scarp is adjacent to the sloughing rip rap. 03/13/2007: Site visited on 03/13/2007. [2012 Site ID:RD2095U01RM6.88]	37.761960 ° -121.318140 °	37.761960 ° -121.318140 °	2 Y
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DWR ID:

12	0.87	0.87	Earthen Levee	Encroachments	LS	A/W Ma	PI : Pipe Inspector Comments: Large pump platform for drainage into San Joaquin River. Three pumps. No positive closure devices. Pipe penetrates levee freeboard. No flap gate at outlet.	37.761472 ° -121.317840 °	37.761472 ° -121.317840 °	15 Y
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DWR ID: DWR_RD2095_01_s_2012_15

13	0.88	0.88	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma	Inspector Comments: Gravity drain through base of levee. Positive closure on waterside hinge point. Flap gate obstructed by debris has been cleared.	37.761337 ° -121.318047 °	37.761337 ° -121.318047 °	16 Y
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DWR ID: DWR_RD2095_01_s_2012_16

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

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	11/07/2012 11/07/2012	Maksim Khashchuk

LMIR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
14	0.92	0.92	Earthen Levee	Encroachments	LS A/W Ma	PI : Pipe Inspector Comments: Pipe on south is connected with siphon breaker at hinge point.	37.760792 ° -121.317705 °	37.760792 ° -121.317705 °	18 Y	
DWR ID: DWR_RD2095_01_s_2012_18										
15	1.00	1.00	Earthen Levee	Trim / Thin Trees	CR M Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	37.760543 ° -121.316150 °	37.760543 ° -121.316150 °	9 Y	
DWR ID: DWR_RD2095_01_f_2012_9										
16	1.18	1.18	Earthen Levee	Slope Stability	LS M Ma	S1 : Repair slope instability.	37.759802 ° -121.313313 °	37.759802 ° -121.313313 °	33 Y	
DWR ID: DWR_RD2095_01_s_2012_33										

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

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	4
Start Levee Mile	0.15
End Levee Mile	0.15
Location	Water Side
Category	Earthen Levee
Item	Encroachments
View of vehicle tracks eroding waterside slope. 05/18/2012	
mkhashch_f_20120927_329.jpg	



Levee Mile Report Line	10
Start Levee Mile	0.73
End Levee Mile	0.74
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Direct view of the erosion at the downstream of RR bridge.	
SJR2012_RD2095U01RM6.74_1.jpg	



Levee Mile Report Line	10
Start Levee Mile	0.73
End Levee Mile	0.74
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
looking up at the erosion from the lower levee slope	
SJR2012_RD2095U01RM6.74_2.jpg	



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

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	11
Start Levee Mile	0.86
End Levee Mile	0.86
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Direct view of the site

SJR2012_RD2095U01RM6.88_1.jpg



Levee Mile Report Line	11
Start Levee Mile	0.86
End Levee Mile	0.86
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Direct view of the site

SJR2012_RD2095U01RM6.88_2.jpg



Levee Mile Report Line	11
Start Levee Mile	0.86
End Levee Mile	0.86
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Direct view of the site

SJR2012_RD2095U01RM6.88_3.jpg



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

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	12
Start Levee Mile	0.87
End Levee Mile	0.87
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the pumps on landside.

mkhashch_f_20121119_795.JPG



Levee Mile Report Line	13
Start Levee Mile	0.88
End Levee Mile	0.88
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Gravity drainage outlet flaggate blocked by debris.

mkhashch_f_20120927_326.jpg



Levee Mile Report Line	13
Start Levee Mile	0.88
End Levee Mile	0.88
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Gravity drain inlet.

mkhashch_f_20120927_327.jpg



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

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	14
Start Levee Mile	0.92
End Levee Mile	0.92
Location	Land Side
Category	Earthen Levee
Item	Encroachments
11/01/2011 Siphon breaker at hinge point on waterside.	
mkhashch_f_20120927_328.jpg	



Levee Mile Report Line	15
Start Levee Mile	1.00
End Levee Mile	1.00
Location	Crown
Category	Earthen Levee
Item	Trim / Thin Trees
View of tree branches below 12 feet over crown.	
mkhashch_f_20121119_796.JPG	



Levee Mile Report Line	16
Start Levee Mile	1.18
End Levee Mile	1.18
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
View of erosion site on landside slope. 05/18/2012	
mkhashch_f_20120927_330.jpg	



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

Unit Cover Sheet

Fall 2012 Levee Inspection Results

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles
Unit No. 02 San Joaquin River	Left	3.38

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	05/18/2012 - 05/18/2012		11/07/2012 - 11/07/2012	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Rosie Silva RD 2095		Rosie Silva RD 2095	

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:

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2095 Paradise Cut

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		Left	3.38	11/07/2012 11/07/2012	Maksim Khashchuk

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.36	0.85	Earthen Levee	Encroachments	LS	M En	DT : Ditch	37.754952 ° -121.305880 °	37.749645 ° -121.301977 °	5 Y
DWR ID: DWR_RD2095_02_f_2012_5										
2	0.44	0.77	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C2 : Repair depressions or ruts in the crown or slope.	37.753980 ° -121.305600 °	37.749613 ° -121.302967 °	7 Y
DWR ID: DWR_RD2095_02_f_2012_7										
3	0.62	0.62	Earthen Levee	Vegetation	LS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.751668 ° -121.304302 °	37.751668 ° -121.304302 °	6 Y
DWR ID: DWR_RD2095_02_s_2012_6										
4	0.76	0.76	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma	Inspector Comments: Two pipes penetrate levee freeboard. Siphon breakers present.	37.749710 ° -121.303263 °	37.749710 ° -121.303263 °	11 Y
DWR ID: DWR_RD2095_02_s_2012_11										
5	0.80	0.80	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma	Inspector Comments: Intake pump and pipe.	37.749337 ° -121.302552 °	37.749337 ° -121.302552 °	13 Y
DWR ID: DWR_RD2095_02_s_2012_13										
6	0.98	0.98	Earthen Levee	Vegetation	WS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.749737 ° -121.300002 °	37.749737 ° -121.300002 °	940 Y
DWR ID: DWR_RD2095_02_s_2012_940										
7	1.01	1.01	Earthen Levee	Vegetation	WS	U Ma	V4 : Elderberries are blocking visibility and flood fight capability. Inspector Comments: Dense bush within 20' of crown on waterside slope.	37.749650 ° -121.299362 °	37.749650 ° -121.299362 °	941 Y
DWR ID: DWR_RD2095_02_s_2012_941										
8	1.09	1.09	Earthen Levee	Trim / Thin Trees	LS	N Ma	T5 : Tree stumps. Inspector Comments: 4 stumps	37.748254 ° -121.298993 °	37.748254 ° -121.298993 °	3 Y
DWR ID: DWR_RD2095_02_s_2012_3										
9	1.31	1.31	Earthen Levee	Trim / Thin Trees	LS	N Ma	T5 : Tree stumps. Inspector Comments: Two tree stumps.	37.745343 ° -121.297620 °	37.745343 ° -121.297620 °	8 Y
DWR ID: DWR_RD2095_02_f_2012_8										
10	1.50	1.50	Earthen Levee	Slope Stability	WS	C Ma	S1 : Repair slope instability.	37.742950 ° -121.297693 °	37.742950 ° -121.297693 °	37 Y
DWR ID: DWR_RD2095_02_s_2012_37										
11	1.54	1.54	Earthen Levee	Vegetation	WS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.742828 ° -121.297532 °	37.742828 ° -121.297532 °	12 Y
DWR ID: DWR_RD2095_02_s_2012_12										
12	1.67	1.67	Earthen Levee	Encroachments	CRA/W	PI : Pipe Ma	Inspector Comments: Discharge pipe into San Joaquin River. Anti-siphon valve present. Pipe penetrates levee freeboard. Fill and compact erosion site.	37.741140 ° -121.296328 °	37.741140 ° -121.296328 °	15 Y
DWR ID: DWR_RD2095_02_s_2012_15										

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

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	11/07/2012 11/07/2012	Maksim Khashchuk

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

13	1.77	1.80	Supplemental	DWR Erosion Survey	WS	M Ma	<p>Inspector Comments: 09/13/2012: The site has been visited by land survey. The vegetation on the site shows the erosion has not developed significantly from the last survey.</p> <p>The site was not visited by boat survey due to the limitation of navigatable waterway.</p> <p>08/23/2011: No significant changes observed on the site.</p> <p>9/22/2010: No significant changes observed on site. There is moderate vegetation growth on the berm. Despite the erosion occurring on the berm, corrective action should be taken before the issue becomes severe.</p> <p>9/29/2009: Site is immediately downstream of a section of existing rip rap; there is a 20-foot berm remaining; berm will continue to erode unless erosion is mitigated; Site# is the same as RM62.6, LM1.87; recommended for annual assessment, per CES Evaluation 2008 Report</p> <p>2006: Visited 10/20/06 [2012 Site ID:RD2095U02RM60.62]</p>	37.740196 ° -121.297662 °	37.740196 ° -121.297662 °	1 Y
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DWR ID:

14	1.85	1.89	Supplemental	DWR Erosion Survey	WS	M Ma	<p>Inspector Comments: 09/13/2012: The site has been visited by land survey. The erosion is not visible from the levee slope because of dense vegetation at the site. Levee slope is protected by placed rocks. The site was not visited by boat survey due to the limitation of navigatable waterway.</p> <p>08/23/2011: Dense vegetation makes it difficult to view the possible erosion. No new development was observed on site.</p> <p>09/23/2010: At the time of the inspection, the erosion site was difficult to view from the levee. Erosion is located on the bank toe, below the existing rip rap. There were no signs of repair on site, nor has the site been reported to be repaired by the district. Images taken from last year indicate that existing rip rap at the bank toe has sloughed exposing the underlying soils. Weakening of the toe could lead to future bank instability.</p> <p>08/05/2010: Recommended for annual assessment and monitoring during flood events, per CLRO.</p> <p>09/29/2009: No major change observed since last visit; sloughing of the rip rap above toe; erosion begins immediately downstream of existing rip rap revetment; roughly 15-foot berm remains; however, it will continue to erode and eventually intrude into the levee profile if left untreated.</p> <p>10/20/2006: Just upstream of where berm starts to widen. [2012 Site ID:RD2095U02RM60.69]</p>	37.738880 ° -121.298260 °	37.738880 ° -121.298260 °	2 Y
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DWR ID:

15	2.10	2.10	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma		37.735483 ° -121.297912 °	37.735483 ° -121.297912 °	19
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DWR ID: DWR_RD2095_02_s_2012_19

16	2.14	2.14	Earthen Levee	Vegetation	WS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	37.734858 ° -121.297758 °	37.734858 ° -121.297758 °	20 Y
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DWR ID: DWR_RD2095_02_s_2012_20

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

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	11/07/2012 11/07/2012	Maksim Khashchuk

LMIR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
17	2.39	2.39	Earthen Levee	Encroachments	CR A/W	PI : Pipe Ma		37.731555 ° -121.298283 °	37.731555 ° -121.298283 °	23
DWR ID: DWR_RD2095_02_s_2012_23										
18	2.70	2.70	Earthen Levee	Encroachments	CR A/W	PI : Pipe Ma	Inspector Comments: Pipe connections have been made. Permit application needed for this emergency repair.	37.727233 ° -121.299732 °	37.727233 ° -121.299732 °	26
DWR ID: DWR_RD2095_02_s_2012_26										
19	2.73	2.73	Earthen Levee	Encroachments	CR A/W	PI : Pipe Ma	Inspector Comments: Discharge pipe with closure structure on waterside hinge point.	37.726733 ° -121.299367 °	37.726733 ° -121.299367 °	25
DWR ID: DWR_RD2095_02_s_2012_25										

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

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	1
Start Levee Mile	0.36
End Levee Mile	0.85
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of ditch along landside toe.	
mkhashch_f_20121119_797.JPG	



Levee Mile Report Line	3
Start Levee Mile	0.62
End Levee Mile	0.62
Location	Land Side
Category	Earthen Levee
Item	Vegetation
11/01/2011 Elderberry bush at landside toe.	
mkhashch_f_20120927_339.jpg	



Levee Mile Report Line	7
Start Levee Mile	1.01
End Levee Mile	1.01
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Elderberry blocks visibility of levee slope.	
mkhashch_f_20120927_344.jpg	



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

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	12
Start Levee Mile	1.67
End Levee Mile	1.67
Location	Crown
Category	Earthen Levee
Item	Encroachments
View of corrected slope erosion. Siphon breaker valve is covered by bucket with drain pipe diverting water away from slope.	
mkhashch_f_20121119_798.JPG	



Levee Mile Report Line	13
Start Levee Mile	1.77
End Levee Mile	1.80
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Looking upstream of the site. Note dense vegetation on the berm.	
SJR2012_RD2095U02RM60.62_1.jpg	



Levee Mile Report Line	13
Start Levee Mile	1.77
End Levee Mile	1.80
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Looking downstream of the site.	
SJR2012_RD2095U02RM60.62_2.jpg	



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

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	13
Start Levee Mile	1.77
End Levee Mile	1.80
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Close view of the site.

SJR2012_RD2095U02RM60.62_3.jpg



Levee Mile Report Line	14
Start Levee Mile	1.85
End Levee Mile	1.89
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

View form levee slope. The dense vegetation on the site block the view of the erosion

SJR2012_RD2095U02RM60.69_1.jpg



Levee Mile Report Line	14
Start Levee Mile	1.85
End Levee Mile	1.89
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of the erosion.

SJR2012_RD2095U02RM60.69_2.jpg



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

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	11/07/2012 11/07/2012	Maksim Khashchuk

Levee Mile Report Line	16
Start Levee Mile	2.14
End Levee Mile	2.14
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Vegetation on waterside slope obstructs access and visibility.	
mkhashch_f_20120927_342.jpg	



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