

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

**Reclamation District No. 2091 Chase**

	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. 2091 Chase**

Waterway		Bank	Unit Miles
Unit No. 01 San Joaquin River		Right	7.59

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/17/2012 - 4/17/2012			
DWR Inspector	Richard Willoughby			
Accompanied By	Mike Alves RD 2091			

**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. 2091 Chase**

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River		Right	7.59	04/17/2012 04/17/2012	Richard Willoughby

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	LS	A Ma		°	°	2
DWR ID: DWR_RD2091_01_s_2012_2										
2			Earthen Levee	Emergency Supplies & Equipment	LS	A Ma		°	°	4
DWR ID: DWR_RD2091_01_s_2012_4										
3			Earthen Levee	Flood Preparedness & Training	LS	A Ma		°	°	5
DWR ID: DWR_RD2091_01_s_2012_5										
4	0.00	7.59	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Dense weeds were noted during inspection. District should control weeds on both levee slopes.	37.541763 ° -121.095890 °	°	52 Y
DWR ID: DWR_RD2091_01_s_2012_52										
5	0.00	7.59	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: District should control wild growth on both levee slopes.	37.541770 ° -121.095882 °	°	53 Y
DWR ID: DWR_RD2091_01_s_2012_53										
6	2.23	2.30	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	°	°	54
DWR ID: DWR_RD2091_01_s_2012_54										
7	4.20	4.20	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.503555 ° -121.081932 °	37.503555 ° -121.081932 °	1
DWR ID: DWR_RD2091_01_s_2012_1										
8	7.55	7.55	Earthen Levee	Slope Stability	LS	A/W Ma	S1 : Repair slope instability. Inspector Comments: Slide appears to be 100' + feet long on landside slope. Cracks are approx. 4-9" wide and 12-18" deep. Slide extends from the middle of the landside slope to landside toe. District indicated that the landowner repaired erosion/slip with no supervisor from LMA or State. No compaction results was provided. Site does appear to be stable at time of inspection, but should be monitored by LMA.	37.479203 ° -121.044695 °	37.479203 ° -121.044695 °	3 Y
DWR ID: DWR_RD2091_01_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 2012**

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	04/17/2012 04/17/2012	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	7.59
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking north at typical view of levee slope.

richard\_s\_20120419\_271.jpg



Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	7.59
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking south at typical view of levee landside slope.

richard\_s\_20120419\_272.jpg



Levee Mile Report Line	8
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking south at slide on landside slope next to irrigation ditch.

richard\_s\_20120313\_142.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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Levee Inspections**

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

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	04/17/2012 04/17/2012	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking southwest a slide on landside slope.	
richard_s_20120313_143.jpg	



Levee Mile Report Line	8
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking at south end of slide.	
richard_s_20120313_144.jpg	



Levee Mile Report Line	8
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking at north end of slide next to irrigation ditch.	
richard_s_20120313_145.jpg	



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**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	04/17/2012 04/17/2012	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking south at irrigation ditch at landside toe.

richard\_s\_20120313\_146.jpg



Levee Mile Report Line	8
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking south at repaired erosion/slip on landside slope.

richard\_s\_20120419\_273.jpg



Levee Mile Report Line	8
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking southeast at repaired erosion/slip on landside slope next to irrigation canal.

richard\_s\_20120419\_274.jpg



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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	04/17/2012 04/17/2012	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking north at repaired erosion/slip on landside slope next to irrigation canal.	
richard_s_20120419_275.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. 2091 Chase**

Waterway	Bank	Unit Miles
Unit No. 02 San Joaquin River		0.33

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/17/2012 - 4/17/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

**Summer & Winter Inspections**

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

**Reclamation District No. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.33	04/17/2012 04/17/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	+ Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	0.33	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	°	°	4
								DWR ID: DWR_RD2091_02_s_2012_4		
2	0.00	0.33	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	°	°	5 Y
								DWR ID: DWR_RD2091_02_s_2012_5		
3	0.03	0.03	Earthen Levee	Trim / Thin Trees	WS	M Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	37.482523 ° -121.051103 °	37.482523 ° -121.051103 °	1 Y
								DWR ID: DWR_RD2091_02_s_2012_1		

<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. 2091 Chase**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.33	04/17/2012 04/17/2012	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.33
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking west at typical view of levee slope.

richard\_s\_20120419\_276.jpg



Levee Mile Report Line	3
Start Levee Mile	0.03
End Levee Mile	0.03
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking west at tree on waterside toe and berm.

richard\_s\_20120313\_147.jpg



Levee Mile Report Line	3
Start Levee Mile	0.03
End Levee Mile	0.03
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking west at untrimmed tree on waterside slope.

richard\_s\_20120419\_277.jpg



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