

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Spring 2012 Levee Inspection Results****Sutter Maintenance Yard Maintenance Area 0012**

	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.

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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

Sutter Maintenance Yard Maintenance Area 0012

Waterway			Bank	Unit Miles
Unit No. 01 Colusa Drain			Left	11.31
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/13/2012 - 3/13/2012			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Yard			

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

Sutter Maintenance Yard Maintenance Area 0012

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain					Left	11.31	03/13/2012 03/13/2012	Bob Duffey

LMR 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		°	°	9
DWR ID: DWR_MA0012_01_s_2012_9										
2			Earthen Levee	Emergency Supplies & Equipment	LS	A Ma		°	°	11
DWR ID: DWR_MA0012_01_s_2012_11										
3			Earthen Levee	Flood Preparedness & Training	LS	A Ma		°	°	12
DWR ID: DWR_MA0012_01_s_2012_12										
4	2.65	3.76	Earthen Levee	Encroachments	LS	M En	AD : Agricultural Ditch	39.067343 ° -122.009611 °	39.081684 ° -122.016243 °	1
DWR ID: DWR_MA0012_01_s_2012_1										
5	4.16	4.31	Earthen Levee	Encroachments	LS	M En	AD : Agricultural Ditch	39.087326 ° -122.015182 °	39.089409 ° -122.015253 °	3
DWR ID: DWR_MA0012_01_s_2012_3										
6	4.83	4.88	Earthen Levee	Encroachments	LS	M En	AD : Agricultural Ditch	39.096839 ° -122.015568 °	39.097455 ° -122.015581 °	4
DWR ID: DWR_MA0012_01_s_2012_4										
7	5.30	5.30	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	39.103490 ° -122.016340 °	39.103490 ° -122.016340 °	206 Y
DWR ID: DWR_MA0012_01_s_2012_206										
8	5.77	5.77	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.109189 ° -122.017139 °	39.109189 ° -122.017139 °	8 Y
DWR ID: DWR_MA0012_01_s_2012_8										
9	5.82	5.82	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.110742 ° -122.017342 °	39.110742 ° -122.017342 °	207 Y
DWR ID: DWR_MA0012_01_s_2012_207										
10	9.19	9.20	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2011: Erosion occurring upstream and downstream of an irrigation diversion structure. [2011 Site ID: SYC_9-3_L]	39.158226 ° -122.021950 °	39.157957 ° -122.021950 °	7 Y
DWR ID: DWR_MA0012_01_s_2012_7										
11	10.31	10.31	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.173370 ° -122.021357 °	39.173370 ° -122.021357 °	10 Y
DWR ID: DWR_MA0012_01_s_2012_10										
12	10.72	10.72	Earthen Levee	Slope Stability	LS	M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	39.173970 ° -122.014335 °	39.173970 ° -122.014335 °	6 Y
DWR ID: DWR_MA0012_01_s_2012_6										

*** 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

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.31	03/13/2012 03/13/2012	Bob Duffey

Levee Mile Report Line	7
Start Levee Mile	5.30
End Levee Mile	5.30
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of the rodent holes along the L/S slope.

rduffey_s_20120312_317.jpg



Levee Mile Report Line	8
Start Levee Mile	5.77
End Levee Mile	5.77
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of the rodent burrows along the L/S slope.

rduffey_s_20120319_539.jpg



Levee Mile Report Line	9
Start Levee Mile	5.82
End Levee Mile	5.82
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of rodent holes along the L/S slope.

rduffey_s_20120312_318.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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.31	03/13/2012 03/13/2012	Bob Duffey

Levee Mile Report Line	10
Start Levee Mile	9.19
End Levee Mile	9.20
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

rduffey_s_20120312_315.jpg



Levee Mile Report Line	10
Start Levee Mile	9.19
End Levee Mile	9.20
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

rduffey_s_20120312_316.jpg



Levee Mile Report Line	11
Start Levee Mile	10.31
End Levee Mile	10.31
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of the rodent burrows along the L/S slope.

rduffey_s_20120319_540.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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Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.31	03/13/2012 03/13/2012	Bob Duffey

Levee Mile Report Line	12
Start Levee Mile	10.72
End Levee Mile	10.72
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

View of vehicle erosion along the slope.

rduffey_s_20120312_314.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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