

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Spring 2012 Levee Inspection Results****Sutter Maintenance Yard Maintenance Area 0005**

	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

Sutter Maintenance Yard Maintenance Area 0005

Waterway			Bank	Unit Miles
Unit No. 01 Butte Creek 1			Left	15.29
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/24/2012 - 4/24/2012			
DWR Inspector	Bob Duffey			
Accompanied By	Jason Cooper 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 0005

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Butte Creek 1						Left	15.29	04/24/2012 04/24/2012	Bob Duffey	
LMR No.	Levee Mile		Category	Item	* Location	** Rating + Ma	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Earthen Levee	Operations & Maintenance Manuals	LS	A Ma		° °	° °	11
DWR ID: DWR_MA0005_01_s_2012_11										
2			Earthen Levee	Emergency Supplies & Equipment	LS	A Ma		° °	° °	12
DWR ID: DWR_MA0005_01_s_2012_12										
3			Earthen Levee	Flood Preparedness & Training	LS	A Ma		° °	° °	13
DWR ID: DWR_MA0005_01_s_2012_13										
4	0.58	0.58	Earthen Levee	Vegetation	LS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	39.690745 ° -121.777342 °	39.690745 ° -121.777342 °	903 Y
DWR ID: DWR_MA0005_01_s_2012_903										
5	1.68	1.68	Earthen Levee	Encroachments	LS	M Ma	DE : Debris	39.675528 ° -121.778642 °	39.675528 ° -121.778642 °	1 Y
DWR ID: DWR_MA0005_01_s_2012_1										
6	2.13	2.13	Earthen Levee	Repair Gates	CR	M Ma		39.670112 ° -121.782012 °	39.670112 ° -121.782012 °	10 Y
DWR ID: DWR_MA0005_01_s_2012_10										
7	2.86	2.86	Earthen Levee	Encroachments	LS	M Ma	PR : Prunings	39.660124 ° -121.785136 °	39.660124 ° -121.785136 °	2 Y
DWR ID: DWR_MA0005_01_s_2012_2										
8	3.12	3.12	Earthen Levee	Encroachments	LS	M Ma	PR : Prunings	39.656779 ° -121.787127 °	39.656779 ° -121.787127 °	3 Y
DWR ID: DWR_MA0005_01_s_2012_3										
9	3.27	3.27	Earthen Levee	Encroachments	LS	M Ma	PR : Prunings	39.654847 ° -121.787893 °	39.654847 ° -121.787893 °	4 Y
DWR ID: DWR_MA0005_01_s_2012_4										
10	7.26	7.26	Earthen Levee	Vegetation	LS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	39.603607 ° -121.784132 °	39.603607 ° -121.784132 °	9 Y
DWR ID: DWR_MA0005_01_s_2012_9										
11	9.66	10.48	Earthen Levee	Encroachments	WS	M En	AD : Agricultural Ditch	39.574837 ° -121.807913 °	39.567892 ° -121.819283 °	5 Y
DWR ID: DWR_MA0005_01_s_2012_5										
12	12.00	13.83	Earthen Levee	Encroachments	LS	M En	AD : Agricultural Ditch	39.551235 ° -121.837697 °	39.531462 ° -121.856165 °	6 Y
DWR ID: DWR_MA0005_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 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	04/24/2012 04/24/2012	Bob Duffey

Levee Mile Report Line	4
Start Levee Mile	0.58
End Levee Mile	0.58
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of the large elderberries along the L/S toe.

rduffey_s_20120312_302.jpg



Levee Mile Report Line	5
Start Levee Mile	1.68
End Levee Mile	1.68
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the removed garbage but construction supply on pallets.

rduffey_s_20120312_297.jpg



Levee Mile Report Line	7
Start Levee Mile	2.86
End Levee Mile	2.86
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the large pruning along the L/S toe.

rduffey_s_20120312_298.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	04/24/2012 04/24/2012	Bob Duffey

Levee Mile Report Line	9
Start Levee Mile	3.27
End Levee Mile	3.27
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of pruning along the L/S toe.

rduffey_s_20120312_299.jpg



Levee Mile Report Line	10
Start Levee Mile	7.26
End Levee Mile	7.26
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of the grass on both slopes.

rduffey_s_20120430_616.jpg



Levee Mile Report Line	11
Start Levee Mile	9.66
End Levee Mile	10.48
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of the AG ditch along the L/S toe.

rduffey_s_20120312_300.jpg



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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek 1	Left	15.29	04/24/2012 04/24/2012	Bob Duffey

Levee Mile Report Line	12
Start Levee Mile	12.00
End Levee Mile	13.83
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the AG ditch along the L/S toe.

rduffey_s_20120312_301.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

Spring 2012 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0005

Waterway			Bank	Unit Miles
Unit No. 02 Butte Creek 1			Right	16.53
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/24/2012 - 4/24/2012			
DWR Inspector	Bob Duffey			
Accompanied By	Jason Cooper Sutter Yard			

Summer & Winter Inspections

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sutter Maintenance Yard Maintenance Area 0005

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Butte Creek 1						Right	16.53	04/24/2012 04/24/2012	Bob Duffey	
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	1.23	1.62	Earthen Levee	Encroachments	LS	M En	AD : Agricultural Ditch	39.529933 ° -121.861563 °	39.534102 ° -121.856947 °	1 Y
DWR ID: DWR_MA0005_02_s_2012_1										
2	1.89	1.89	Earthen Levee	Encroachments	LS	M Ma	GA : Garbage	39.536923 ° -121.853638 °	39.536923 ° -121.853638 °	4 Y
DWR ID: DWR_MA0005_02_s_2012_4										
3	2.50	2.51	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2008 - Sandy non-cohesive bank with rotational/slab failure. 2011: No observed change. [2011 Site ID: BTC_2-5_R]	39.544374 ° -121.846366 °	39.544028 ° -121.846595 °	8 Y
DWR ID: DWR_MA0005_02_s_2012_8										
4	3.15	4.60	Earthen Levee	Encroachments	LS	M En	AD : Agricultural Ditch	39.551780 ° -121.840507 °	39.567430 ° -121.823065 °	7 Y
DWR ID: DWR_MA0005_02_s_2012_7										
5	7.38	7.38	Earthen Levee	Encroachments	LS	M Ma	PR : Prunings	39.599607 ° -121.793848 °	39.599607 ° -121.793848 °	11 Y
DWR ID: DWR_MA0005_02_s_2012_11										
6	7.86	7.86	Earthen Levee	Encroachments	LS	M Ma	PR : Prunings	39.605265 ° -121.788388 °	39.605265 ° -121.788388 °	2 Y
DWR ID: DWR_MA0005_02_s_2012_2										
7	8.10	8.10	Earthen Levee	Slope Stability	LS	M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	39.607710 ° -121.785868 °	39.607710 ° -121.785868 °	13 Y
DWR ID: DWR_MA0005_02_s_2012_13										
8	8.45	8.45	Earthen Levee	Encroachments	LS	M En	PR : Prunings	39.612212 ° -121.782922 °	39.612212 ° -121.782922 °	15 Y
DWR ID: DWR_MA0005_02_s_2012_15										
9	8.80	8.80	Earthen Levee	Encroachments	LS	M En	PR : Prunings	39.616353 ° -121.779808 °	39.616353 ° -121.779808 °	17 Y
DWR ID: DWR_MA0005_02_s_2012_17										
10	10.54	10.54	Earthen Levee	Encroachments	LS	M Ma	PR : Prunings	39.639018 ° -121.781458 °	39.639018 ° -121.781458 °	3 Y
DWR ID: DWR_MA0005_02_s_2012_3										
11	10.61	10.61	Earthen Levee	Encroachments	LS	M En	BU : Buildings	39.639967 ° -121.782152 °	39.639967 ° -121.782152 °	14 Y
DWR ID: DWR_MA0005_02_s_2012_14										
12	10.79	10.79	Earthen Levee	Slope Stability	LS	M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	39.642061 ° -121.783861 °	39.642061 ° -121.783861 °	18 Y
DWR ID: DWR_MA0005_02_s_2012_18										
13	10.81	10.81	Earthen Levee	Slope Stability	LS	M Ma	S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.	39.642447 ° -121.784105 °	39.642447 ° -121.784105 °	16 Y
DWR ID: DWR_MA0005_02_s_2012_16										
14	11.22	11.22	Earthen Levee	Vegetation	LS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	39.647400 ° -121.787825 °	39.647400 ° -121.787825 °	26 Y
DWR ID: DWR_MA0005_02_s_2012_26										
15	11.74	11.95	Earthen Levee	Encroachments	LS	M En	AD : Agricultural Ditch	39.654268 ° -121.789525 °	39.657142 ° -121.788690 °	6 Y
DWR ID: DWR_MA0005_02_s_2012_6										

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sutter Maintenance Yard Maintenance Area 0005

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Butte Creek 1						Right	16.53	04/24/2012 04/24/2012	Bob Duffey	
LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
16	13.03	13.03	Earthen Levee	Encroachments	LS	M En	PR : Prunings	39.671239 ° -121.782486 °	39.671239 ° -121.782486 °	19 Y
								DWR ID: DWR_MA0005_02_s_2012_19		
17	13.23	13.23	Earthen Levee	Encroachments	LS	M Ma	EQ : Equipment	39.673956 ° -121.781278 °	39.673956 ° -121.781278 °	5
								DWR ID: DWR_MA0005_02_s_2012_5		
18	13.97	14.16	Earthen Levee	Vegetation	WSA/W	V8 : Environmental Requirements. Ob		39.683630 ° -121.777916 °	39.686221 ° -121.779051 °	20
								DWR ID: DWR_MA0005_02_s_2012_20		
19	14.54	14.54	Earthen Levee	Encroachments	LS	U En	BU : Buildings	39.691432 ° -121.778933 °	39.691432 ° -121.778933 °	25
								DWR ID: DWR_MA0005_02_s_2012_25		
20	15.96	15.96	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.711222 ° -121.778188 °	39.711222 ° -121.778188 °	12
								DWR ID: DWR_MA0005_02_s_2012_12		

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/24/2012 04/24/2012	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	1.23
End Levee Mile	1.62
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the AG ditch along the L/S toe.

rduffey_s_20120312_303.jpg



Levee Mile Report Line	2
Start Levee Mile	1.89
End Levee Mile	1.89
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the garbage along the L/S toe.

rduffey_s_20120312_305.jpg



Levee Mile Report Line	3
Start Levee Mile	2.50
End Levee Mile	2.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

rduffey_s_20120312_308.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 - Spring 2012

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/24/2012 04/24/2012	Bob Duffey

Levee Mile Report Line	3
Start Levee Mile	2.50
End Levee Mile	2.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

rduffey_s_20120312_309.jpg



Levee Mile Report Line	4
Start Levee Mile	3.15
End Levee Mile	4.60
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the AG ditch along the L/S toe.

rduffey_s_20120312_307.jpg



Levee Mile Report Line	5
Start Levee Mile	7.38
End Levee Mile	7.38
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the pruning along the L/S toe.

rduffey_s_20120312_310.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/24/2012 04/24/2012	Bob Duffey

Levee Mile Report Line	6
Start Levee Mile	7.86
End Levee Mile	7.86
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the debris and garbage along the landside toe of the levee.

rduffey_s_20120312_304.jpg



Levee Mile Report Line	7
Start Levee Mile	8.10
End Levee Mile	8.10
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

View of the vehicle erosion along the slope.

rduffey_s_20120430_610.jpg



Levee Mile Report Line	8
Start Levee Mile	8.45
End Levee Mile	8.45
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the brush pile at the toe of the levee.

rduffey_s_20120430_611.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/24/2012 04/24/2012	Bob Duffey

Levee Mile Report Line	9
Start Levee Mile	8.80
End Levee Mile	8.80
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the brush pile at the toe of the levee.

rduffey_s_20120430_612.jpg



Levee Mile Report Line	11
Start Levee Mile	10.61
End Levee Mile	10.61
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the equipment along the L/S toe.

rduffey_s_20120312_311.jpg



Levee Mile Report Line	12
Start Levee Mile	10.79
End Levee Mile	10.79
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

View of the vehicle erosion along the slope of the levee.

rduffey_s_20120430_613.jpg



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Levee Inspections**

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Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek 1	Right	16.53	04/24/2012 04/24/2012	Bob Duffey

Levee Mile Report Line	13
Start Levee Mile	10.81
End Levee Mile	10.81
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

View of the vehicle erosion along the L/S slope.

rduffey_s_20120312_312.jpg



Levee Mile Report Line	15
Start Levee Mile	11.74
End Levee Mile	11.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the ditch along the L/S toe.

rduffey_s_20120312_306.jpg



Levee Mile Report Line	16
Start Levee Mile	13.03
End Levee Mile	13.03
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the brush pile at the toe of the levee.

rduffey_s_20120430_614.jpg



*** Location**

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WS : Water Side
CR : Crown

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A/W : Acceptable but Monitor & Maintain

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2012 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0005

Waterway			Bank	Unit Miles
Unit No. 03 Little Chico Creek Diversion 1			Left	1.50
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/24/2012 - 4/24/2012			
DWR Inspector	Bob Duffey			
Accompanied By	Jason Cooper Sutter Yard			

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Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sutter Maintenance Yard Maintenance Area 0005

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Little Chico Creek Diversion 1						Left	1.50	04/24/2012 04/24/2012	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.68	0.68	Earthen Levee	Vegetation	WS	A	V1 : Control annual grass and weeds on the levee slopes and easements.	39.726052 ° -121.781496 °	39.726052 ° -121.781496 °	2 Y
DWR ID: DWR_MA0005_03_s_ 2012_2										
2	0.70	0.70	Earthen Levee	Repair Gates	CR	M		39.726622 ° -121.781545 °	39.726622 ° -121.781545 °	1 Y
DWR ID: DWR_MA0005_03_s_ 2012_1										

*** 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 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Little Chico Creek Diversion 1	Left	1.50	04/24/2012 04/24/2012	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.68
End Levee Mile	0.68
Location	Water Side
Category	Earthen Levee
Item	Vegetation

View of the grass on both slopes.

rduffey_s_20120430_615.jpg



Levee Mile Report Line	2
Start Levee Mile	0.70
End Levee Mile	0.70
Location	Crown
Category	Earthen Levee
Item	Repair Gates

View of the gate needing to be repaired. The hinge on this gate has broken.

rduffey_s_20120312_313.jpg



*** Location**

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WS : Water Side
CR : Crown

**** Rating**

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