

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

	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 Wadsworth Canal

Waterway			Bank	Unit Miles
Unit No. 01 Wadsworth Canal			Left	4.66
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/1/2012 - 5/1/2012			
DWR Inspector	Bob Duffey			
Accompanied By	Steve Beckley 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 Wadsworth Canal

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Wadsworth Canal							Left	4.66	05/01/2012 05/01/2012	Bob Duffey	
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End	Photo	
1			Earthen Levee	Operations & Maintenance Manuals	WS	A Ma		°	°	10	
								°	°		
DWR ID: DWR_ST0010_01_s_2012_10											
2			Earthen Levee	Flood Preparedness & Training	WS	A Ma		°	°	11	
								°	°		
DWR ID: DWR_ST0010_01_s_2012_11											
3			Earthen Levee	Emergency Supplies & Equipment	WS	A Ma		°	°	12	
								°	°		
DWR ID: DWR_ST0010_01_s_2012_12											
4	0.89	0.89	Earthen Levee	Animal Control	WS	A Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.123973 ° -121.758818 °	39.123973 ° -121.758818 °	96 Y	
								DWR ID: DWR_ST0010_01_s_2012_96			
5	1.74	1.74	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2011: Whole bank is starting to unravel, with failure from poor soils. [2011 Site ID: WAC_2-1_L]	39.133887 ° -121.749526 °	39.141757 ° -121.742939 °	7 Y	
								DWR ID: DWR_ST0010_01_s_2012_7			
6	1.82	1.82	Earthen Levee	Animal Control	WS	A Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	39.134727 ° -121.748503 °	39.134727 ° -121.748503 °	92 Y	
								DWR ID: DWR_ST0010_01_s_2012_92			
7	1.85	1.85	Earthen Levee	Animal Control	WS	A Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.135107 ° -121.748210 °	39.135107 ° -121.748210 °	6 Y	
								DWR ID: DWR_ST0010_01_s_2012_6			
8	2.30	2.30	Earthen Levee	Animal Control	LS	A Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	39.140508 ° -121.743703 °	39.140508 ° -121.743703 °	93	
								DWR ID: DWR_ST0010_01_s_2012_93			
9	2.31	2.31	Earthen Levee	Animal Control	WS	A Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	39.140553 ° -121.743720 °	39.140553 ° -121.743720 °	94	
								DWR ID: DWR_ST0010_01_s_2012_94			
10	2.40	2.40	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E2 : Schedule repair of erosion site prior to the next inspection.	39.141697 ° -121.742819 °	39.141697 ° -121.742819 °	14 Y	
								DWR ID: DWR_ST0010_01_s_2012_14			
11	2.41	2.41	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2010 - Over steepened levees, some slumping, reach-wide problem. 2011: Still a reach-wide problem. [2011 Site ID: WAC_2-4_L]	39.142235 ° -121.742609 °	39.153095 ° -121.734390 °	8 Y	
								DWR ID: DWR_ST0010_01_s_2012_8			
12	2.76	2.76	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	39.146063 ° -121.739288 °	39.146063 ° -121.739288 °	1 Y	
								DWR ID: DWR_ST0010_01_s_2012_1			
13	3.31	3.31	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E2 : Schedule repair of erosion site prior to the next inspection.	39.152875 ° -121.734320 °	39.152875 ° -121.734320 °	13 Y	
								DWR ID: DWR_ST0010_01_s_2012_13			
14	3.56	3.59	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	39.156225 ° -121.732930 °	39.156639 ° -121.732755 °	3 Y	
								DWR ID: DWR_ST0010_01_s_2012_3			

*** 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 Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.66	05/01/2012 05/01/2012	Bob Duffey

Levee Mile Report Line	4
Start Levee Mile	0.89
End Levee Mile	0.89
Location	Water Side
Category	Earthen Levee
Item	Animal Control

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

rduffey_s_20120312_526.jpg



Levee Mile Report Line	5
Start Levee Mile	1.74
End Levee Mile	1.74
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

rduffey_s_20120312_518.jpg



Levee Mile Report Line	5
Start Levee Mile	1.74
End Levee Mile	1.74
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

rduffey_s_20120312_519.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 Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.66	05/01/2012 05/01/2012	Bob Duffey

Levee Mile Report Line	5
Start Levee Mile	1.74
End Levee Mile	1.74
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

rduffey_s_20120312_520.jpg



Levee Mile Report Line	5
Start Levee Mile	1.74
End Levee Mile	1.74
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #4

rduffey_s_20120312_521.jpg



Levee Mile Report Line	5
Start Levee Mile	1.74
End Levee Mile	1.74
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #5

rduffey_s_20120312_522.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 Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.66	05/01/2012 05/01/2012	Bob Duffey

Levee Mile Report Line	6
Start Levee Mile	1.82
End Levee Mile	1.82
Location	Water Side
Category	Earthen Levee
Item	Animal Control

View of the rodent hole next to the pipe.

rduffey_s_20120507_620.jpg



Levee Mile Report Line	7
Start Levee Mile	1.85
End Levee Mile	1.85
Location	Water Side
Category	Earthen Levee
Item	Animal Control

View of rodents burrows along the slope & next to a pipe.

rduffey_s_20120312_517.jpg



Levee Mile Report Line	10
Start Levee Mile	2.40
End Levee Mile	2.40
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along the fences.

rduffey_s_20120507_621.jpg



*** Location**

LS : Land Side
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**** Rating**

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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.66	05/01/2012 05/01/2012	Bob Duffey

Levee Mile Report Line	11
Start Levee Mile	2.41
End Levee Mile	2.41
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

rduffey_s_20120312_523.jpg



Levee Mile Report Line	11
Start Levee Mile	2.41
End Levee Mile	2.41
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

rduffey_s_20120312_524.jpg



Levee Mile Report Line	12
Start Levee Mile	2.76
End Levee Mile	2.76
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of erosion along W/S toe.

rduffey_s_20120312_514.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 Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.66	05/01/2012 05/01/2012	Bob Duffey

Levee Mile Report Line	13
Start Levee Mile	3.31
End Levee Mile	3.31
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along the fences.

rduffey_s_20120507_622.jpg



Levee Mile Report Line	14
Start Levee Mile	3.56
End Levee Mile	3.59
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along the waterside toe of the levee.

rduffey_s_20120312_515.jpg



Levee Mile Report Line	15
Start Levee Mile	3.68
End Levee Mile	3.68
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along the waterside toe of the levee.

rduffey_s_20120312_516.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2012 Levee Inspection Results

Sutter Maintenance Yard Wadsworth Canal

Waterway			Bank	Unit Miles
Unit No. 02 Wadsworth Canal			Right	4.66
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/3/2012 - 5/3/2012			
DWR Inspector	Bob Duffey			
Accompanied By	Steve Beckley 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).

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sutter Maintenance Yard Wadsworth Canal

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal						Right	4.66	05/03/2012 05/03/2012	Bob Duffey
LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
1	1.15	1.15	Earthen Levee	Animal Control	LS Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.127481 ° -121.756519 °	39.127481 ° -121.756519 °	9 Y
DWR ID: DWR_ST0010_02_s_2012_9									
2	1.17	1.17	Earthen Levee	Slope Stability	LS Ma	M S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	39.127648 ° -121.756345 °	39.127648 ° -121.756345 °	3 Y
DWR ID: DWR_ST0010_02_s_2012_3									
3	1.74	1.74	Supplemental	USACE Erosion Survey	WS Ma	M Inspector Comments: 2011: Whole bank is starting to unravel, with failure from poor soils. [2011 Site ID: WAC_2-1_R]	39.134064 ° -121.749781 °	39.141814 ° -121.743260 °	11 Y
DWR ID: DWR_ST0010_02_s_2012_11									
4	1.86	1.86	Earthen Levee	Animal Control	LS Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	39.135535 ° -121.748678 °	39.135535 ° -121.748678 °	8 Y
DWR ID: DWR_ST0010_02_s_2012_8									
5	2.37	2.37	Supplemental	USACE Erosion Survey	WS Ma	M Inspector Comments: 2010 - Over steepened levees, some slumping, reach-wide problem. 2011: Still a reach-wide problem. [2011 Site ID: WAC_2-4_R]	39.142254 ° -121.742847 °	39.153150 ° -121.734611 °	12 Y
DWR ID: DWR_ST0010_02_s_2012_12									
6	3.30	3.30	Earthen Levee	Erosion / Bank Caving	LS Ma	M E1 : Note and monitor erosion site.	39.152903 ° -121.734906 °	39.152903 ° -121.734906 °	14 Y
DWR ID: DWR_ST0010_02_s_2012_14									
7	3.46	3.46	Earthen Levee	Erosion / Bank Caving	WS Ma	M E1 : Note and monitor erosion site.	39.155057 ° -121.733985 °	39.155057 ° -121.733985 °	4 Y
DWR ID: DWR_ST0010_02_s_2012_4									
8	3.59	3.99	Earthen Levee	Erosion / Bank Caving	WS Ma	M E1 : Note and monitor erosion site.	39.156753 ° -121.733267 °	39.162113 ° -121.730997 °	5 Y
DWR ID: DWR_ST0010_02_s_2012_5									
9	4.48	4.48	Supplemental	USACE Erosion Survey	WS Ma	M Inspector Comments: 2011: Small erosion pocket. [2011 Site ID: WAC_4-3_R]	39.168659 ° -121.728016 °	39.168937 ° -121.727905 °	13 Y
DWR ID: DWR_ST0010_02_s_2012_13									
10	4.49	4.49	Earthen Levee	Erosion / Bank Caving	WS Ma	M E1 : Note and monitor erosion site.	39.168848 ° -121.728130 °	39.168848 ° -121.728130 °	6 Y
DWR ID: DWR_ST0010_02_s_2012_6									
11	4.55	4.55	Earthen Levee	Erosion / Bank Caving	WSA/W Ma	E1 : Note and monitor erosion site.	39.169670 ° -121.727787 °	39.169670 ° -121.727787 °	7 Y
DWR ID: DWR_ST0010_02_s_2012_7									

*** Location**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.66	05/03/2012 05/03/2012	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	1.15
End Levee Mile	1.15
Location	Land Side
Category	Earthen Levee
Item	Animal Control

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

rduffey_s_20120312_532.jpg



Levee Mile Report Line	2
Start Levee Mile	1.17
End Levee Mile	1.17
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

View of vehicle erosion along L/S slope.

rduffey_s_20120312_527.jpg



Levee Mile Report Line	3
Start Levee Mile	1.74
End Levee Mile	1.74
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

rduffey_s_20120312_533.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 Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.66	05/03/2012 05/03/2012	Bob Duffey

Levee Mile Report Line	3
Start Levee Mile	1.74
End Levee Mile	1.74
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

rduffey_s_20120312_534.jpg



Levee Mile Report Line	5
Start Levee Mile	2.37
End Levee Mile	2.37
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

rduffey_s_20120312_535.jpg



Levee Mile Report Line	5
Start Levee Mile	2.37
End Levee Mile	2.37
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

rduffey_s_20120312_536.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 Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.66	05/03/2012 05/03/2012	Bob Duffey

Levee Mile Report Line	6
Start Levee Mile	3.30
End Levee Mile	3.30
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along the W/S toe.

rduffey_s_20120507_627.jpg



Levee Mile Report Line	7
Start Levee Mile	3.46
End Levee Mile	3.46
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion at the waterside toe of the levee.

rduffey_s_20120312_528.jpg



Levee Mile Report Line	8
Start Levee Mile	3.59
End Levee Mile	3.99
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along the waterside toe.

rduffey_s_20120312_529.jpg



*** Location**

LS : Land Side
WS : Water Side
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**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.66	05/03/2012 05/03/2012	Bob Duffey

Levee Mile Report Line	9
Start Levee Mile	4.48
End Levee Mile	4.48
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

rduffey_s_20120312_537.jpg



Levee Mile Report Line	9
Start Levee Mile	4.48
End Levee Mile	4.48
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

rduffey_s_20120312_538.jpg



Levee Mile Report Line	10
Start Levee Mile	4.49
End Levee Mile	4.49
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of erosion along the W/S toe.

rduffey_s_20120312_530.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 Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.66	05/03/2012 05/03/2012	Bob Duffey

Levee Mile Report Line	11
Start Levee Mile	4.55
End Levee Mile	4.55
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along the W/S toe.

rduffey_s_20120312_531.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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