

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Spring 2014 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.

*

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. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2014 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	03/12/2014 - 03/12/2014			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance 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 2014

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.31	03/12/2014 03/12/2014	Bob Duffey

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				°
					°
DWR ID	DWR_MA0012_01_s _ 2013_12				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	13
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				°
					°
DWR ID	DWR_MA0012_01_s _ 2013_13				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	14
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				°
					°
DWR ID	DWR_MA0012_01_s _ 2013_14				
Action/Comments					

No Photos

*** 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 2014

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.31	03/12/2014 03/12/2014	Bob Duffey

LM Start	0.24	Rating **	M	Issue No.	3
LM End	0.24	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.035889 °	39.035889 °
				-121.996882 °	-121.996882 °
DWR ID	DWR_MA0012_01_s_2014_3				
Action/Comments					

Inspector Comments: FS_ID:25484

EP_NO: 9381

Repair Type:

Crossing Status:

UCIP Comments: Need to verify proper abandonment of pipe 12/16/2013 Same as last inspection 12/16/2013 Same as last inspection.

FIELD_STRUCT_DESC: *Abandoned* 14-inch pipe through levee, 3.0 feet below crown. Open on waterward end 3-foot x 6-foot concrete well on waterward berm. Siphon breaker in 24-inch pipe riser on landward shoulder. 36-inch concrete standpipe on landward berm. (Permit No. 9381 - Tribble). Originally included in O+M Manual (1959). Asbuilt available 50-4-3081. (The only item identified is the 36-inch standpipe on the LS toe).

FS Date: 12/16/2013 2:25:18 PM

Photo 1 of 1 : UCIP_4746.jpg



36-inch concrete riser on LS toe.

*** 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.31	03/12/2014 03/12/2014	Bob Duffey

LM Start	1.73	Rating **	M	Issue No.	6
LM End	1.73	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.055711 °	39.055711 °
				-122.003252 °	-122.003252 °
DWR ID	DWR_MA0012_01_s_2014_6				
Action/Comments					

Inspector Comments: FS_ID:25488

EP_NO: 9382

Repair Type:

Crossing Status:

UCIP Comments: Inlet on LS filled partially with soil. Outlet blocked with soil and the flap gate wont close 7/16/2013 Same as last inspection. Make sure flapgate is closed before highwater season 12/16/2013 Same as last inspection. WS flapgate still needs to be cleaned out and shut.

FIELD_STRUCT_DESC: 24-inch CM drain pipe through the levee, 13.0 feet below crown. Flap gate, concrete headwall and grouted cobble spillway on waterward side. Concrete headwall on landward side. (Permit No. 9382 Baber). Originally included in O+M manual (1959).

FS Date: 12/16/2013 2:28:27 PM

Photo 1 of 1 : UCIP_4747.jpg



Concrete U shaped headwall at LS inlet.

* 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 2014

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.31	03/12/2014 03/12/2014	Bob Duffey

LM Start	1.81	Rating **	M	Issue No.	8
LM End	1.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.056847 °	39.056847 °
				-122.003288 °	-122.003288 °
DWR ID	DWR_MA0012_01_s_2014_8				
Action/Comments					

Action/Comments

Inspector Comments: FS_ID:25491

EP_NO: 9387

Repair Type:

Crossing Status:

UCIP Comments: No inlet could be located on LS. Flap gate partially blocked and will not close completely 7/16/2013 Same as last inspection. Was told inlet is about 1/4 mile down road way next to house. Will try to get coordinates for inlet 2/16/2013 Pipe was flowing water and flap gate was being pushed open. Cannot verify if it will close all the way.

FIELD_STRUCT_DESC: 48-inch drain pipe through the levee 20.0 feet below crown. Slide gate in 60-inch pipe riser on waterward slope. Flap gate and concrete headwall on waterward side. (Permit No. 9387 - Christenson). Originally included in O+M manual (1959).

FS Date: 12/16/2013 2:30:56 PM

Photo 1 of 1 : UCIP_4752.jpg



60-inch standpipe with slide gate on WS slope with outlet in background.

* 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 2014

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.31	03/12/2014 03/12/2014	Bob Duffey

LM Start	2.02	Rating **	M	Issue No.	9
LM End	2.02	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.059773 °	39.059773 °
				-122.004391 °	-122.004391 °
DWR ID	DWR_MA0012_01_s_2014_9				
Action/Comments					
Inspector Comments: FS_ID:25492					
EP_NO: 9391					
Repair Type:					
Crossing Status:					
UCIP Comments: Inlet is partially filled with soil. Needs to be cleaned out 2/16/2013					
Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch CM drain pipe through levee, 13.0 feet below crown. Flap gate, concrete headwall and grouted cobble spillway on the waterward side. Concrete headwall on landward side. (Permit No. 9391 Christenson). Originally included in O+M manual (1959).					
FS Date: 12/16/2013 2:32:26 PM					

Photo 1 of 1 : UCIP_4754.jpg



LS view of inlet.

LM Start	2.22	Rating **	M	Issue No.	52
LM End	2.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.062465 °	39.062465 °
				-122.005479 °	-122.005479 °
DWR ID	DWR_MA0012_01_f_2013_52				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : rduffey_s_20140304_421.jpg



View of the rodent along the slope of the levee.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
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A/W : Acceptable but Monitor & Maintain

+ Issue Type
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.31	03/12/2014 03/12/2014	Bob Duffey

LM Start	2.65	Rating **	M	Issue No.	1
LM End	3.76	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.067343 °	39.081684 °
				-122.009611 °	-122.016243 °
DWR ID	DWR_MA0012_01_s _ 2012_1				
Action/Comments					
Ditch					

No Photos

LM Start	3.78	Rating **	M	Issue No.	10
LM End	3.78	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.081949 °	39.081949 °
				-122.016179 °	-122.016179 °
DWR ID	DWR_MA0012_01_s _ 2014_10				
Action/Comments					
Inspector Comments: FS_ID:25495					
EP_NO: 9388					
Repair Type:					
Crossing Status:					
UCIP Comments: Slide gate inoperable, but appears to be in closed position. Flap gate held in open position. Good candidate for video inspection when, if ever, dry/16/2013 Water flowing through pipe so screw gate definately not closed. Was told NOV's have been sent for owner to replace stem. Flap gate gets closed for flood season12/16/2013 Slide gate stem is still bent. WS flapgate was closed.					
FIELD_STRUCT_DESC: 48-inch CM pipe through the levee, 28.0 feet below the crown. Slide gate in 66-inch pipe riser on the waterward slope. Concrete headwall on the waterward side. Grouted cobble spillway from drain ditch to large canal on the landward side. (Permit No. 9388 Wallace) Originally included in the O+M manual (1959).					
FS Date: 12/16/2013 2:36:38 PM					

Photo 1 of 1 : UCIP_4758.jpg



Drainage ditch on LS toe.

* 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 2014

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.31	03/12/2014 03/12/2014	Bob Duffey

LM Start	4.33	Rating **	M	Issue No.	15
LM End	4.33	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.089666 °	39.089666 °
				-122.015248 °	-122.015248 °
DWR ID	DWR_MA0012_01_s _ 2014_15				
Action/Comments					
Inspector Comments: FS_ID:25500					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: No permit identified for this crossing 7/16/2013					
Same as last inspection 12/16/2013 Pump has been removed for winter.					
FIELD_STRUCT_DESC: 24-inch steel pipe though levee, 4.5 feet below crown. Pump in pump house on waterward bank. Siphon breaker valve installed on LS shoulder.					
FS Date: 12/16/2013 2:46:18 PM					

Photo 1 of 1 : UCIP_4764.jpg



Pumping plant on WS toe.

LM Start	4.83	Rating **	M	Issue No.	4
LM End	4.88	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.096839 °	39.097455 °
				-122.015568 °	-122.015581 °
DWR ID	DWR_MA0012_01_s _ 2012_4				
Action/Comments					
Ditch					

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.31	03/12/2014 03/12/2014	Bob Duffey

LM Start	5.12	Rating **	M	Issue No.	16
LM End	5.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.100898 °	39.100898 °
				-122.016078 °	-122.016078 °
DWR ID	DWR_MA0012_01_s_2014_16				
Action/Comments					
Inspector Comments: FS_ID:25502					
EP_NO: 0					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe is clogged at both the inlet and outlet. Good candidate for video inspection7/16/2013 Same as last inspection12/16/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 48-inch CM pipe approximately 15 feet below the crown. Concrete headwalls on both ends with an automatic drainage gate on the WS.					
FS Date: 12/16/2013 2:48:49 PM					

Photo 1 of 1 : UCIP_4766.jpg



Concrete U shaped headwall and flap gate on WS toe.

LM Start	5.30	Rating **	A/W	Issue No.	206
LM End	5.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.103490 °	39.103490 °
				-122.016340 °	-122.016340 °
DWR ID	DWR_MA0012_01_s_2012_206				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 1 : rduffey_s_20140304_425.jpg



View of the levee slope with no rodent activity.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
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C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.31	03/12/2014 03/12/2014	Bob Duffey

LM Start	6.12	Rating **	M	Issue No.	17
LM End	6.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.114949 °	39.114949 °
				-122.017946 °	-122.017946 °
DWR ID	DWR_MA0012_01_s _ 2014_17				
Action/Comments					
Inspector Comments: FS_ID:25505					
EP_NO: 13699					
Repair Type:					
Crossing Status:					
UCIP Comments: Oil leakage around pump 7/16/2013 Same as last inspection 12/16/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 1 of 2: 20-inch soilproofed steel Stormdrain pipe through levee, 4.4 feet below crown. Cobble revetted sump on waterward side. Siphon breaker in 24-inch metal pipe risers on waterward shoulder. Pump house at toe of landward slope. (Permit No. 13699, 1984). Replaced 18-inch pipe at same location.					
FS Date: 12/16/2013 2:52:13 PM					

Photo 1 of 1 : UCIP_4772.jpg



Pumping plant on LS slope

LM Start	6.12	Rating **	M	Issue No.	18
LM End	6.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.114963 °	39.114963 °
				-122.017947 °	-122.017947 °
DWR ID	DWR_MA0012_01_s _ 2014_18				
Action/Comments					
Inspector Comments: FS_ID:25506					
EP_NO: 13699					
Repair Type:					
Crossing Status:					
UCIP Comments: Oil leaks at pump head 7/16/2013 Same as last inspection 12/16/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 2 of 2: 20-inch soilproofed steel Stormdrain pipe through levee, 4.4 feet below crown. Cobble revetted sump on waterward side. Siphon breaker in 24-inch metal pipe risers on waterward shoulder. Pump house at toe of landward slope. (Permit No. 13699, 1984). Replaced 18-inch pipe at same location.					
FS Date: 12/16/2013 2:52:49 PM					

No Photos

* 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 2014

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.31	03/12/2014 03/12/2014	Bob Duffey

LM Start	6.12	Rating **	M	Issue No.	19
LM End	6.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.114977 °	39.114977 °
				-122.017947 °	-122.017947 °
DWR ID	DWR_MA0012_01_s _ 2014_19				
Action/Comments					
Inspector Comments: FS_ID:25509					
EP_NO: 9390					
Repair Type:					
Crossing Status:					
UCIP Comments: Minor oil leak on pump 7/16/2013 Same as last inspection 12/16/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 3 of 3: 18-inch pipe through levee, 4.4 feet below crown. Cobble revetted sump on waterward side. Siphon breaker in 16-inch metal pipe risers on waterward shoulder. Pump house at toe of landward slope. (Permit No. 9390 - Profpe) Originally included in O+M manual (1959).					
FS Date: 12/16/2013 2:55:03 PM					

No Photos

LM Start	6.38	Rating **	M	Issue No.	24
LM End	8.15	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.118211 °	39.142866 °
				-122.019951 °	-122.022094 °
DWR ID	DWR_MA0012_01_s _ 2014_24				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

Photo 1 of 1 : rduffey_s_20140317_116.jpg



View of the rutted up crown roadway.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
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+ Issue Type
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.31	03/12/2014 03/12/2014	Bob Duffey

LM Start	7.75	Rating **	M	Issue No.	20
LM End	7.75	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.137187 °	39.137187 °
				-122.022793 °	-122.022793 °
DWR ID	DWR_MA0012_01_s _ 2014_20				
Action/Comments					
Inspector Comments: FS_ID:25510					
EP_NO: 9390					
Repair Type:					
Crossing Status:					
UCIP Comments: Rodent burrowing along sides of pipe on					
LS/16/2013 Same as last inspection12/16/2013 Same as last					
inspection.					
FIELD_STRUCT_DESC: 24-inch steel pipe through levee, 3.0 feet					
below crown. Both ends capped, terminating on levee slopes. (Permit					
No. 9390 - Profpe) Originally included in O+M manual (1959).					
FS Date: 12/16/2013 2:57:02 PM					

Photo 1 of 1 : UCIP_4782.jpg



Pipe on LS.

LM Start	8.82	Rating **	A/W	Issue No.	53
LM End	8.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.152245 °	39.152245 °
				-122.021782 °	-122.021782 °
DWR ID	DWR_MA0012_01_f _ 2013_53				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : rduffey_s_20140304_422.jpg



View of the rodent hole along the slope of the levee.

* Location
LS : Land Side
WS : Water Side
CR : Crown

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A/W : Acceptable but Monitor & Maintain

+ Issue Type
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.31	03/12/2014 03/12/2014	Bob Duffey

LM Start	8.92	Rating **	A/W	Issue No.	54
LM End	8.92	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.153702 °	39.153702 °
				-122.021773 °	-122.021773 °
DWR ID	DWR_MA0012_01_f_2013_54				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : rduffey_s_20140304_423.jpg



View of the rodent holes along the slope of the levee.

LM Start	9.03	Rating **	M	Issue No.	55
LM End	9.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.155207 °	39.155207 °
				-122.021769 °	-122.021769 °
DWR ID	DWR_MA0012_01_f_2013_55				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : rduffey_s_20140304_424.jpg



View of the rodnet hole along the toe of the levee.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
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C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

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

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.31	03/12/2014 03/12/2014	Bob Duffey

LM Start	9.23	Rating **	M	Issue No.	21
LM End	9.23	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.158097 °	39.158097 °
				-122.021706 °	-122.021706 °
DWR ID	DWR_MA0012_01_s_2014_21				

Action/Comments

Inspector Comments: FS_ID:25512

EP_NO: 9390

Repair Type:

Crossing Status:

UCIP Comments: Concrete Headwall tilting on WS slope 12/16/2013

Same as last inspection 12/16/2013 Same as last inspection.

FIELD_STRUCT_DESC: 36-inch CM drain pipe through the levee, 15.0 feet below crown. Concrete head wall, slide gate and grouted revetment on waterward side. Slide gate and Concrete headwall on landward side. (Permit No. 9390 - Profpe). Originally included in O+M manual (1959).

FS Date: 12/16/2013 2:58:55 PM

Photo 1 of 1 : UCIP_4788.jpg



slide gate and headwall on LS toe.

LM Start	9.86	Rating **	A	Issue No.	23
LM End	9.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.166996 °	39.166996 °
				-122.021857 °	-122.021857 °

Action/Comments

Control annual grass and weeds on the levee slopes and easements.

Photo 1 of 1 : rduffey_s_20140317_115.jpg



View of the native grasses starting to grow on both slope.

*** 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 2014

Sutter Maintenance Yard Maintenance Area 0012

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Drain	Left	11.31	03/12/2014 03/12/2014	Bob Duffey

LM Start	10.72	Rating **	M	Issue No.	11
LM End	10.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.173971 °	39.173971 °
				-122.014362 °	-122.014362 °
DWR ID	DWR_MA0012_01_f _ 2013_11				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 1 : rduffey_s_20140304_420.jpg



View of the slope vehicle erosion.

LM Start	11.16	Rating **	M	Issue No.	22
LM End	11.16	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.180039 °	39.180039 °
				-122.014266 °	-122.014266 °
DWR ID	DWR_MA0012_01_s _ 2014_22				
Action/Comments					
Inspector Comments: FS_ID:25516					
EP_NO: 9386					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe plugged with soil on both ends as well as at slide gate on WS slope. Slide gate inoperable 12/16/2013 Same as last inspection 12/16/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch Corrugated metal drainpipe through the levee, 8.0 feet below the crown. Slide gate in 36-inch pipe riser on the waterward shoulder. (Permit No. 9386 - Wescott) Levee turns eastward.					
FS Date: 12/16/2013 3:06:10 PM					

Photo 1 of 1 : UCIP_4790.jpg



cover on 36-inch CMP standpipe on WS slope.

* 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