

**Flood Control Project Maintenance
Levee Inspections**

Fall 2014 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

LD0009	Overall LMA Rating	Total LMA Miles						
Levee District No. 0009 (Sutter County)	M	6.25						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments	0.01		0.01	0.16%	0.53	0.01		
Animal Control		0.23	0.92	14.73%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.07	0.02		
<i>LMA Totals:</i>	0.01	0.23	0.93	14.89%	0.60	0.03	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2014 Levee Inspection Results

Levee District No. 0009 (Sutter County)

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			M	

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

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2014 Levee Inspection Results

Levee District No. 0009 (Sutter County)

Waterway			Bank	Unit Miles
Unit No. 01 Sutter County, Feather River			Right	6.25
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	03/12/2014 - 03/12/2014		11/13/2014 - 11/13/2014	
DWR Inspector	Matthew Hoffman		Matthew Hoffman	
Accompanied By	David Schmidl LD 9			

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 - Fall 2014

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.25	11/13/2014 11/13/2014	Matthew Hoffman

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_LD0009_01_s _ 2013_4				
Action/Comments					
Inspector Comments: LD 9 has flood fight supplies on hand and coordinates with other local levee districts in the flood fight supply staging program.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_LD0009_01_s _ 2013_5				
Action/Comments					
Inspector Comments: The levee district has stated in the past that they have a copy of the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_LD0009_01_s _ 2013_6				
Action/Comments					
Inspector Comments: The district has attended the Flood Fight class put on by RD 784 and DWR.					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 - Fall 2014

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.25	11/13/2014 11/13/2014	Matthew Hoffman

LM Start	0.00	Rating **	M	Issue No.	1
LM End	0.00	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.168909 °	39.168909 °
				-121.622629 °	-121.622629 °
DWR ID	DWR_LD0009_01_f_2014_1				
Action/Comments					
Inspector Comments: FS_ID:9592					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Need better gas-line markings at levees.					
FIELD_STRUCT_DESC: 8-5/8-inch fuel line through the levee. Sign on					
LS between railroad and end of LD1 puts alignment on west side of RR					
tracks.					
FS Date: 3/1/2013					

No Photos

LM Start	0.00	Rating **	M	Issue No.	3
LM End	0.00	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.168906 °	39.168906 °
				-121.622629 °	-121.622629 °
DWR ID	DWR_LD0009_01_f_2014_3				
Action/Comments					
Inspector Comments: FS_ID:9595 EP_NO: 3823 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need better gas-line markings at levees. FIELD_STRUCT_DESC: 8-5/8-inch fuel line along the landward shoulder, 2.6 feet below the crown. Gasline marker on LS shoulder FS Date: 3/1/2013					

No Photos

LM Start	0.00	Rating **	A/W	Issue No.	20
LM End	0.94	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation				°
					°
DWR ID	DWR_LD0009_01_f_2013_20				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 - Fall 2014

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.25	11/13/2014 11/13/2014	Matthew Hoffman

LM Start	0.00	Rating **	A/W	Issue No.	19
LM End	6.24	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.168906 °	39.254369 °
				-121.622629 °	-121.636530 °
DWR ID	DWR_LD0009_01_f_2014_19				
Action/Comments					
Material					
Inspector Comments: The entire district is currently under construction and unable to inspect. Fall 2014					

Photo 1 of 1 : FA_2014_LD0009_202_19_20141124_00018.jpg



This photo was taken from the crown facing north looking at the levee currently under construction and unable to inspect. Fall 2014.

LM Start	0.03	Rating **	M	Issue No.	8
LM End	0.03	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.169339 °	39.169339 °
				-121.622616 °	-121.622616 °
DWR ID	DWR_LD0009_01_f_2014_8				
Action/Comments					
Inspector Comments: FS_ID:9594					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: gas lines need to be better marked in this area as they are only 2.6-feet below crown.					
FIELD_STRUCT_DESC: 8-5/8-inch diameter fuel line along the landward shoulder, 2.6 feet below the crown.					
FS Date: 3/1/2013					

No Photos

LM Start	0.08	Rating **	M	Issue No.	9
LM End	0.08	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.170153 °	39.170153 °
				-121.622546 °	-121.622546 °
DWR ID	DWR_LD0009_01_f_2014_9				
Action/Comments					
Inspector Comments: FS_ID:9596					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Need better gas-line markings at levees.					
FIELD_STRUCT_DESC: 16-inch gas line through the levee, 3.5 feet below the crown. Marker on LS toe.					
FS Date: 3/1/2013					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 - Fall 2014

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.25	11/13/2014 11/13/2014	Matthew Hoffman

LM Start	0.95	Rating **	M	Issue No.	13
LM End	0.95	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.182607 °	39.182607 °
				-121.620775 °	-121.620775 °
DWR ID	DWR_LD0009_01_f_2014_13				
Action/Comments					
Inspector Comments: FS_ID:9598					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe needs to be removed from levee crown.					
FIELD_STRUCT_DESC: 3-inch steel pipe through the levee at LS crown elevation.					
FS Date: 3/1/2013					

No Photos

LM Start	1.32	Rating **	M	Issue No.	14
LM End	1.32	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.187995 °	39.187995 °
				-121.620706 °	-121.620706 °
DWR ID	DWR_LD0009_01_f_2014_14				
Action/Comments					
Inspector Comments: FS_ID:9601					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Unable to determine type of abandonment.					
FIELD_STRUCT_DESC: *Abandoned* 10-inch steel pipe through the					
levee, 2.8 feet below the crown. Waterward end open. Steel plate					
welded on landward end. Pump and standpipe at the landward toe.					
FS Date: 3/1/2013					

No Photos

LM Start	1.87	Rating **	U	Issue No.	16
LM End	1.87	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.195241 °	39.195241 °
				-121.624165 °	-121.624165 °
DWR ID	DWR_LD0009_01_f_2014_16				
Action/Comments					
Inspector Comments: FS_ID:9602					
EP_NO: 1119					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Pipe needs to be repaired or properly abandoned.					
FIELD_STRUCT_DESC: 16-inch steel pipe through levee, 3.0 feet below crown. Pump in pump house on channel bank. Gate valve on the waterward end. Concrete standpipe and distribution box at the landward toe. (Permit No. 1119, 06/08/1946)					
FS Date: 3/1/2013					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 - Fall 2014

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.25	11/13/2014 11/13/2014	Matthew Hoffman

LM Start	2.55	Rating **	U	Issue No.	17
LM End	2.55	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.203936 °	39.203936 °
				-121.629521 °	-121.629521 °
DWR ID	DWR_LD0009_01_f_2014_17				
Action/Comments					
Inspector Comments: FS_ID:9604					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Pipe appears abandoned as pump is dosconnected					
and open on waterside. Pipe should be properly abandoned.					
FIELD_STRUCT_DESC: 18-inch steel pipe through levee, 8 feet below					
crown Pump and gate valve in pump house on channel bank. Concrete					
well on the bank. Siphon breaker in CMP riser on landward slope. (O+M					
1955)					
FS Date: 3/1/2013					

No Photos

LM Start	2.70	Rating **	M	Issue No.	21
LM End	2.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.206053 °	39.206053 °
				-121.629748 °	-121.629748 °
DWR ID	DWR_LD0009_01_f_2013_21				
Action/Comments					
Debris					

Photo 1 of 1 : FA_2014_LD0009_202_21_20141110_00005.jpg



This photo was taken from the crown facing north looking down the landward levee slope at concrete debris. Spring 2014.

* Location LS : Land Side N/A : Not Applicable 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 District No. 0009 (Sutter County)

No Photos

A photograph of a residential property. In the background, there is a two-story brown house with white window frames. A large, mature green tree stands to the right of the house. A chain-link fence runs across the middle ground, separating the house from the foreground. The foreground is filled with dense, low-lying purple flowers. The sky is clear and blue.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.25	11/13/2014 11/13/2014	Matthew Hoffman

LM Start	3.49	Rating **	M	Issue No.	18
LM End	3.49	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.217363 °	39.217363 °
				-121.628434 °	-121.628434 °
DWR ID	DWR_LD0009_01_f_2014_18				
Action/Comments					
Inspector Comments: FS_ID:9606					
EP_NO: 13657					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Needs flapgate on WS outlet. Pump is missing.					
FIELD_STRUCT_DESC: 20-inch pipe through levee, 2 feet below levee crown. Siphon breaker on waterward shoulder. Pump with trash rack at landward toe. (Permit No. 13657 - Micheli)					
FS Date: 3/1/2013					

No Photos

LM Start	4.27	Rating **	M	Issue No.	23
LM End	4.27	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.228589 °	39.228589 °
				-121.629732 °	-121.629732 °
DWR ID	DWR_LD0009_01_f_2013_23				
Action/Comments					
Prunings					

Photo 1 of 1 : FA_2014_LD0009_202_23_20141110_00007.jpg



This photo was taken from the crown facing north looking down the landward levee slope at a pruning pile on at the toe. Spring 2014.

LM Start	4.33	Rating **	M	Issue No.	15
LM End	4.33	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.229507 °	39.229507 °
				-121.629780 °	-121.629780 °
DWR ID	DWR_LD0009_01_f_2013_15				
Action/Comments					
Agricultural tilling					

No Photos

* Location LS : Land Side N/A : Not Applicable 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 - Fall 2014

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.25	11/13/2014 11/13/2014	Matthew Hoffman

LM Start	4.69	Rating **	U	Issue No.	10
LM End	4.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.234343 °	39.234343 °
				-121.632200 °	-121.632200 °
DWR ID	DWR_LD0009_01_f_2013_10				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_LD0009_202_10_20141110_00002.jpg



Photo taken from the levee crown looking east down the waterward slope at rodent holes.

LM Start	5.68	Rating **	M	Issue No.	12
LM End	6.02	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.247695 °	39.252631 °
				-121.637316 °	-121.636970 °
DWR ID	DWR_LD0009_01_s_2012_12				
Action/Comments					
Ditch					

Photo 1 of 1 : FA_2014_LD0009_202_12_20141110_00004.jpg



Agricultural ditch at landside toe.

LM Start	5.68	Rating **	U	Issue No.	11
LM End	5.68	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.247697 °	39.247697 °
				-121.637312 °	-121.637312 °
DWR ID	DWR_LD0009_01_s_2012_11				
Action/Comments					
Building					

Photo 1 of 1 : FA_2014_LD0009_202_11_20141110_00003.jpg



Building at the waterside toe.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable 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 - Fall 2014

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.25	11/13/2014 11/13/2014	Matthew Hoffman

LM Start	5.76	Rating **	U	Issue No.	24
LM End	5.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.248868 °	39.248868 °
				-121.637232 °	-121.637232 °
DWR ID	DWR_LD0009_01_f_2013_24				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_LD0009_202_24_20141110_00008.jpg



Photo taken from levee crown looking down waterward slope at rodent holes.

LM Start	6.14	Rating **	U	Issue No.	25
LM End	6.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.254369 °	39.254369 °
				-121.636531 °	-121.636531 °
DWR ID	DWR_LD0009_01_f_2013_25				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_LD0009_202_25_20141110_00009.jpg



Photo taken from levee crown looking west down landward slope at rodent holes.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement