

**Flood Control Project Maintenance
Levee Inspections**

Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD0108	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
Reclamation District No. 0108 River Farms	M *	20.92						
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	0.02		0.02	0.10%	0.37			
Animal Control	0.01	0.01	0.05	0.24%				
Crown Surface / Depressions / Rutting	1.28		1.28	6.12%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.07		0.07	0.34%				
DWR UCIP Field Study					0.08			
<i>LMA Totals:</i>	1.38	0.01	1.42	6.79% *	0.45	0.00	0.00	0.00
Unit No. 01 Colusa Basin Drain LB	Overall Unit Rating	Total Unit Miles						
RD0108	A	20.64						
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	0.02		0.02	0.10%	0.37			
Animal Control	0.01		0.01	0.05%				
Crown Surface / Depressions / Rutting	1.27		1.27	6.15%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.07		0.07	0.34%				
DWR UCIP Field Study					0.08			
<i>Unit Totals:</i>	1.37	0.00	1.37	6.64%	0.45	0.00	0.00	0.00
Unit No. 02 Castle Properties RB	Overall Unit Rating	Total Unit Miles						
RD0108	M	0.28						
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>								
Animal Control		0.01	0.04	14.32%				
Crown Surface / Depressions / Rutting	0.01		0.01	3.58%				
<i>Unit Totals:</i>	0.01	0.01	0.05	17.90%	0.00	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2016 Levee Inspection Results

Reclamation District No. 0108 River Farms

	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.

* Overall LMA Threshold Percent is less than
10.00%; however, U Rated Miles are present,
so the Overall LMA Rating is M instead of A.

† 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 2016 Levee Inspection Results

Reclamation District No. 0108 River Farms

Waterway			Bank	Unit Miles
Unit No. 01 Colusa Basin Drain			Left	20.64
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/6/2016 - 4/6/2016		10/4/2016 - 10/4/2016	
DWR Inspector	Jai Lor		Oleg Yakimov	
Accompanied By			Gary Marler RD0108	

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.

Reclamation District No. 0108 River Farms

No Photos

No Photos

No Photos

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**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	0.06	Rating **	M	Issue No.	281
LM End	0.06	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.822897 °	38.822897 °
				-121.797000 °	-121.797000 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:37608 DS_ID:17943 EP_NO: 9396 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status of structure. Notes indicate crossing has been abandoned. Owner will need to coordinate with CVFPB and DWR inspector to determine how to properly abandon. FIELD_STRUCT_DESC: 1 of 5. Five 72-inch abandoned pipes or culvert through levee 31.6 feet below crown. Slide gates on both ends. (App. 9736-RD 108) Ramp on landward slope. (App.9396-RD). O&M Manual SAC 132; October 1959 FS Date: 6/10/2014					

LM Start	0.06	Rating **	M	Issue No.	281 (cont)
LM End	0.06	Issue Type +	En	Location *	N/A

Photo 1 of 2 : UCIP_FA_2016_37608_68207.jpg



View of concrete structure visible on waterward side.

Photo 2 of 2 : UCIP_FA_2016_37608_68210.jpg



Dense vegetation on waterward side.

* 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 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	0.06	Rating **	M	Issue No.	282
LM End	0.06	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.822919 °	38.822919 °
				-121.797046 °	-121.797046 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:37609					
DS_ID:22386					
EP_NO: 9396					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner to determine status of structure. Notes indicate crossing has been abandoned. Owner will need to coordinate with CVFPB and DWR inspector to determine how to properly abandon.					
FIELD_STRUCT_DESC: 2 of 5. Five 72-inch abandoned pipes or culvert through levee 31.6 feet below crown. Slide gates on both ends. (App. 9736-RD 108) Ramp on landward slope. (App.9396-RD). O&M Manual SAC 132; October 1959					
FS Date: 6/10/2014					

Photo 1 of 2 : UCIP_FA_2016_37609_68211.jpg



Concrete structure located on waterward side.

LM Start	0.06	Rating **	M	Issue No.	282 (cont)
LM End	0.06	Issue Type +	En	Location *	N/A

Photo 2 of 2 : UCIP_FA_2016_37609_68215.jpg



Dense vegetation covers the waterward slope.

* 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 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	0.06	Rating **	M	Issue No.	283
LM End	0.06	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.822933 °	38.822933 °
				-121.797081 °	-121.797081 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:37610					
DS_ID:22387					
EP_NO: 9396					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner to determine status of structure. Notes indicate crossing has been abandoned. Owner will need to coordinate with CVFPB and DWR inspector to determine how to properly abandon.					
FIELD_STRUCT_DESC: 3 of 5. Five 72-inch abandoned pipes or culvert through levee 31.6 feet below crown. Slide gates on both ends. (App. 9736-RD 108) Ramp on landward slope. (App.9396-RD). O&M Manual SAC 132; October 1959					
FS Date: 6/10/2014					

Photo 1 of 2 : UCIP_FA_2016_37610_68216.jpg



Concrete structure located on waterward side.

LM Start	0.06	Rating **	M	Issue No.	283 (cont)
LM End	0.06	Issue Type +	En	Location *	N/A

Photo 2 of 2 : UCIP_FA_2016_37610_68219.jpg



Dense vegetation covers waterward side slope.

* 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 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	0.06	Rating **	M	Issue No.	284
LM End	0.06	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.822897 °	38.822897 °
				-121.797000 °	-121.797000 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:37611					
DS_ID:22388					
EP_NO: 9396					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner to determine status of structure. Notes indicate crossing has been abandoned. Owner will need to coordinate with CVFPB and DWR inspector to determine how to properly abandon.					
FIELD_STRUCT_DESC: 4 of 5. Five 72-inch abandoned pipes or culvert through levee 31.6 feet below crown. Slide gates on both ends. (App. 9736-RD 108) Ramp on landward slope. (App.9396-RD). O&M Manual SAC 132; October 1959					
FS Date: 6/10/2014					

Photo 1 of 2 : UCIP_FA_2016_37611_68220.jpg



Concrete structure located on waterward side.

LM Start	0.06	Rating **	M	Issue No.	284 (cont)
LM End	0.06	Issue Type +	En	Location *	N/A

Photo 2 of 2 : UCIP_FA_2016_37611_68224.jpg



Waterward slope covered by dense vegetation.

* 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 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	0.07	Rating **	M	Issue No.	280
LM End	0.07	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.822954 °	38.822954 °
				-121.797135 °	-121.797135 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:37607					
DS_ID:22389					
EP_NO: 9396					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to contact owner to determine status of structure. Notes indicate crossing has been abandoned. Owner will need to coordinate with CVFPB and DWR inspector to determine how to properly abandon.					
FIELD_STRUCT_DESC: 5 of 5. Five 72-inch abandoned pipes or culvert through levee 31.6 feet below crown. Slide gates on both ends. (App. 9736-RD 108) Ramp on landward slope. (App.9396-RD). O&M Manual SAC 132; October 1959					
FS Date: 6/10/2014					

LM Start	0.07	Rating **	M	Issue No.	280 (cont)
LM End	0.07	Issue Type +	En	Location *	N/A

Photo 1 of 2 : UCIP_FA_2016_37607_68203.jpg



Concrete structure located on waterward side.

Photo 2 of 2 : UCIP_FA_2016_37607_68206.jpg



Waterward slope covered by dense vegetation.

* 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 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	2.91	Rating **	M	Issue No.	286	
LM End	2.91	Issue Type +	En	Location *	N/A	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.838696 °	38.838696 °	
				-121.845843 °	-121.845843 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39707						
DS_ID:24875						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: No signs of pipe visible--need to contact owner to obtain permit number authorizing work. If crossing is no longer used by owner, the owner will need to coordinate with DWR Inspector and CVFPB to remove crossing according to Title 23 requirements. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure.						
FIELD_STRUCT_DESC: Corrugated Metal (CM) pipe riser located on waterward side. Riser is filled with trash and deris. Unable to determine if crossing exists at this location.						
FS Date: 3/18/2014						

LM Start	2.91	Rating **	M	Issue No.	286 (cont)
LM End	2.91	Issue Type +	En	Location *	N/A

Photo 1 of 2 : UCIP_FA_2016_39707_71682.jpg



View of waterward side.

Photo 2 of 2 : UCIP_FA_2016_39707_71681.jpg



CMP riser located on waterward toe--2/3 filled with soil and trash.

* 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 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	3.65	Rating **	M	Issue No.	23
LM End	3.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.842620 °	38.842620 °
				-121.858732 °	-121.858732 °
DWR ID	DWR_RD0108_01_f_2015_23				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0108_203_23_20160913_00008.jpg



View of the debris on the waterward side of the levee. Fall 2015.

LM Start	5.20	Rating **	A/W	Issue No.	10
LM End	5.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.846163 °	38.846163 °
				-121.886974 °	-121.886974 °
DWR ID	DWR_RD0108_01_s_2014_10				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
Tree at the toe is dying.					

Photo 1 of 2 : FA_2016_RD0108_203_10_20160913_00002.jpg



Tree limbs are along the toe of the levee. Tree is slowly dying and could be a hazard to the levee. Spring 2014

LM Start	5.20	Rating **	A/W	Issue No.	10 (cont)
LM End	5.20	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_RD0108_203_10_20160913_00003.jpg



Tree limbs have been removed but suggest monitoring the dying tree. Fall 2015.

*** 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

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	5.92	Rating **	M	Issue No.	17
LM End	6.06	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.852230 °	38.853967 °
				-121.897211 °	-121.898571 °
DWR ID	DWR_RD0108_01_s_2016_17				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

A wide, straight gravel road stretches into the distance under a clear blue sky. The road is flanked by green grass and trees on the left, and a flat, open field on the right. A date stamp '04/06/2016' is visible in the bottom right corner.

View of the crown of the levee looking upstream. Spring 2016.

LM Start	8.27	Rating **	A/W	Issue No.	26
LM End	8.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.882595 °	38.882595 °
				-121.914669 °	-121.914669 °
DWR ID	DWR_RD0108_01_f_2015_26				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					

A photograph showing a gravel road with a significant longitudinal crack running down the center. The road surface is composed of light-colored gravel and sand. To the left of the road is a grassy area with some low-lying vegetation. To the right, the rear portion of a white vehicle is visible, including the wheel and the open rear door. The sky is clear and blue. In the bottom right corner, the date "09/24/2016" is printed in orange text.

View of the crack on the waterward side of the levee looking upstream.
Suggest monitoring the crack. Fall 2015.

LM Start	8.98	Rating **	M	Issue No.	15
LM End	8.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.892912 °	38.892912 °
				-121.914636 °	-121.914636 °
DWR ID	DWR_RD0108_01_f _ 2016_15				
Comment Code					
GA : Garbage					
Inspector Comment					

A photograph showing a dead cow lying on its side on a paved road. The cow is positioned near the edge of the road, adjacent to a grassy embankment. The background consists of dense green foliage and trees. The scene is brightly lit, suggesting daylight.

Trash on waterward side on the levee. Fall 2016 inspection.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	9.29	Rating **	C	Issue No.	279
LM End	9.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.897452 °	38.897452 °
				-121.914680 °	-121.914680 °
DWR ID	DWR_RD0108_01_f _ 2013_279				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

No Photos

LM Start	9.66	Rating **	M	Issue No.	16
LM End	9.66	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.902691 °	38.902691 °
				-121.914645 °	-121.914645 °
DWR ID	DWR_RD0108_01_f_ 2016_16				
Comment Code					
ST : Stairway					
Inspector Comment					
Department of Fish and Game staff is using stairway to access their monitoring site. Unable to verify permit.					

View of a steel stairway on WS slope. Fall 2016 inspection.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	11.20	Rating **	M	Issue No.	18
LM End	11.20	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.925037 °	38.925037 °
				-121.914509 °	-121.914509 °
DWR ID	DWR_RD0108_01_s_2016_18				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0108_203_18_20160913_00005.jpg



View of the crown depression on the crown of the levee looking upstream. Spring 2016.

LM Start	11.24	Rating **	M	Issue No.	287
LM End	11.24	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.925662 °	38.925662 °
				-121.914303 °	-121.914303 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39717					
DS_ID:24876					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Need to contact owner to determine additional details of crossing.					
FIELD_STRUCT_DESC: Natural gas line with markers on both side slightly angled through levee. Gas station located across canal on landward side.					
FS Date: 3/18/2014					

Photo 1 of 2 : UCIP_FA_2016_39717_71705.jpg



View of marker visible on shoulder.

* 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 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	11.24	Rating **	M	Issue No.	287 (cont)	
LM End	11.24	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.925662 °	38.925662 °	
				-121.914303 °	-121.914303 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39717 DS_ID:24876 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to contact owner to determine additional details of crossing. FIELD_STRUCT_DESC: Natural gas line with markers on both side slightly angled through levee. Gas station located across canal on landward side. FS Date: 3/18/2014						

Photo 2 of 2 : UCIP_FA_2016_39717_71704.jpg



Owner contact information listed on marker.

LM Start	11.36	Rating **	M	Issue No.	20
LM End	12.19	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.927325 °	38.938291 °
				-121.913477 °	-121.907516 °
DWR ID	DWR_RD0108_01_s_2016_20				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0108_203_20_20160913_00006.jpg



View of the crown of the levee looking upstream. Spring 2016.

* 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 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	11.64	Rating **	C	Issue No.	28
LM End	11.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.930980 °	38.930980 °
				-121.911489 °	-121.911489 °
DWR ID	DWR_RD0108_01_f_2015_28				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	14.75	Rating **	M	Issue No.	21
LM End	14.75	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.969811 °	38.969811 °
				-121.926961 °	-121.926961 °
DWR ID	DWR_RD0108_01_s_2016_21				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

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 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	14.94	Rating **	M	Issue No.	285
LM End	14.94	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.971607 °	38.971607 °
				-121.929499 °	-121.929499 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:37623					
DS_ID:17942					
EP_NO: 3800					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Need to contact owner--marker missing on waterward side.					
FIELD_STRUCT_DESC: 20-inch concrete encased gas line through levee, 3.0 feet below the crown. Crossing appears to be angled through levee (App. 3800-PG&E) Small rock revetment on the waterward slope. (unable to locate) Gas well approximately 1,000 feet from landward toe.					
FS Date: 6/10/2014					

Photo 1 of 2 : UCIP_FA_2016_37623_68246.jpg



Marker visible on landward side.

LM Start	14.94	Rating **	M	Issue No.	285 (cont)
LM End	14.94	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_FA_2016_37623_68245.jpg



Contact information for gas line going through levee.

* 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 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	15.46	Rating **	M	Issue No.	22
LM End	15.74	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.976684 °	38.979377 °
				-121.936696 °	-121.940526 °
DWR ID	DWR_RD0108_01_s_2016_22				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0108_203_22_20160913_00007.jpg



View of the crown of the levee looking upstream. Spring 2016.

LM Start	18.24	Rating **	M	Issue No.	29
LM End	18.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.005766 °	39.005766 °
				-121.972346 °	-121.972346 °
DWR ID	DWR_RD0108_01_f_2015_29				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : FA_2016_RD0108_203_29_20161004_00042.jpg



Updated view of a site with rodent activity. Fall 2016 inspection.

LM Start	18.24	Rating **	M	Issue No.	29 (cont)
LM End	18.24	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_RD0108_203_29_20160913_00012.jpg



View of the animal hole on the waterward side of the levee looking upstream. Fall 2015.

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	18.92	Rating **	M	Issue No.	6
LM End	19.28	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.013160 °	39.017000 °
				-121.980808 °	-121.985364 °
DWR ID	DWR_RD0108_01_s_2012_6				
Comment Code					
DT : Ditch					
Inspector Comment					
Ditch is at the toe of the levee.					

Photo 1 of 1 : FA_2016_RD0108_203_6_20160913_00001.jpg



View of the ditch at the toe of the levee on the landward side looking upstream. Spring 2016.

LM Start	19.14	Rating **	C	Issue No.	32
LM End	19.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.015522 °	39.015522 °
				-121.983618 °	-121.983618 °
DWR ID	DWR_RD0108_01_f_2015_32				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	19.15	Rating **	C	Issue No.	19
LM End	19.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.015634 °	39.015634 °
				-121.983757 °	-121.983757 °
DWR ID	DWR_RD0108_01_s_2015_19				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

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 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	19.27	Rating **	M	Issue No.	1
LM End	19.35	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.016727 °	39.017516 °
				-121.985411 °	-121.986374 °
DWR ID	DWR_RD0108_01_s_2016_1				
Comment Code					
Inspector Comment					
2011 - Toe scour at the bottom of a steep bank, large sections of the toe are sliding down. Erosion may be due to the upstream bend. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: CBD_19-2_L]					

No Photos

LM Start	19.41	Rating **	C	Issue No.	25
LM End	19.78	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.018352 °	39.023306 °
				-121.986995 °	-121.988793 °
DWR ID	DWR_RD0108_01_s_2016_25				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

No Photos

LM Start	20.38	Rating **	C	Issue No.	30
LM End	20.43	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.031526 °	39.031477 °
				-121.990258 °	-121.991089 °
DWR ID	DWR_RD0108_01_s_2016_30				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.64	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	20.47	Rating **	C	Issue No.	31
LM End	20.55	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.031752 °	39.032763 °
				-121.991738 °	-121.992438 °
DWR ID	DWR_RD0108_01_s_2016_31				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

*** 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**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 0108 River Farms

Waterway			Bank	Unit Miles
Unit No. 02 Castle Properties			Right	0.28
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	4/6/2016 - 4/6/2016		10/4/2016 - 10/4/2016	
DWR Inspector	Jai Lor		Oleg Yakimov	
Accompanied By			Gary Marler RD0108	

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 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Castle Properties	Right	0.28	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	0.02	Rating **	U	Issue No.	6
LM End	0.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.796355 °	38.796355 °
				-121.727721 °	-121.727721 °
DWR ID	DWR_RD0108_02_f _ 2015_6				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Mound does not look fresh but seems to have come from the rodent hole.					

LM Start	0.02	Rating **	U	Issue No.	6 (cont)
LM End	0.02	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : FA_2016_RD0108_590_6_20160913_00002.jpg



Mound next to rodent hole is more than 2 cubic feet of material.

Photo 2 of 3 : FA_2016_RD0108_590_6_20160913_00003.jpg



Perspective view of the rodent hole on the waterward side of the levee looking upstream. Spring 2016.

LM Start	0.02	Rating **	U	Issue No.	6 (cont)
LM End	0.02	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : FA_2016_RD0108_590_6_20160913_00004.jpg



Another hole is on top of the crown. Spring 2016.

* 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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Reclamation District No. 0108 River Farms

View of the crack on the crown of the levee looking downstream. Fall 2015.

Page 2 of 3

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Castle Properties	Right	0.28	10/04/2016 10/04/2016	Oleg Yakimov

LM Start	0.20	Rating **	C	Issue No.	9
LM End	0.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.798280 °	38.798280 °
				-121.725565 °	-121.725565 °
DWR ID	DWR_RD0108_02_f_2015_9				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	0.26	Rating **	C	Issue No.	3
LM End	0.26	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.798971 °	38.798971 °
				-121.724696 °	-121.724696 °
DWR ID	DWR_RD0108_02_s_2016_3				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

*** 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