Flood Control Project Maintenance
Levee Inspections

Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

NA0008 Knights Landing Ridge Drainage District	Overall LMA Rating	Total LMA Miles						
	M	12.39						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee								
Vegetation	0.67		0.67	5.41%				
Encroachments					1.02	0.01		
Animal Control	0.04	0.01	0.08	0.65%				
Erosion / Bank Caving	0.01	0.02	0.09	0.73%				
Cracking	0.01		0.01	0.08%			0.01	
Crown Surface / Depressions / Rutting	0.02		0.02	0.16%				
Seepage / Sandboils								0.13
Supplemental								
2015 USACE Erosion Survey, DRAFT	1.43		1.43	11.54%				
DWR UCIP Field Study					0.11	0.01		
LMA Totals:	2.18	0.03	2.30	18.57%	1.13	0.02	0.01	0.13

Unit No. 01 Knights Landing Ridge Cut RB NA0008	Overall Unit Rating	Total Unit Miles						
	M	6.36						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee								
Vegetation	0.67		0.67	10.54%				
Encroachments					0.80			
Animal Control	0.02		0.02	0.32%				
Erosion / Bank Caving	0.01	0.02	0.09	1.42%				
Crown Surface / Depressions / Rutting	0.01		0.01	0.16%				
Seepage / Sandboils								0.13
Supplemental								
2015 USACE Erosion Survey, DRAFT	0.15		0.15	2.36%				
DWR UCIP Field Study					0.08			
Unit Totals:	0.86	0.02	0.94	14.79%	0.88	0.00	0.00	0.13

Unit No. 02 Knights Landing Ridge Cut LB NA0008	Overall Unit Rating	Total Unit Miles						
	U	6.03						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee								
Encroachments					0.22	0.01		
Animal Control	0.02	0.01	0.06	0.99%				
Cracking	0.01		0.01	0.17%			0.01	
Crown Surface / Depressions / Rutting	0.01		0.01	0.17%				
Supplemental								
2015 USACE Erosion Survey, DRAFT	1.28		1.28	21.22%				
DWR UCIP Field Study					0.03	0.01		
Unit Totals:	1.32	0.01	1.36	22.55%	0.25	0.02	0.01	0.00

Flood Control Project Maintenance
Levee Inspections

LMA District Cover Sheet

Fall 2016 Levee Inspection Results

Knights Landing Ridge Drainage District

	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.

† 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 indiction of risk.

Comments

Flood Control Project Maintenance
Levee Inspections

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles
Unit No. 01 Knights Landing Ridge Cut	Right	6.36

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			**M**	
Date of Inspection	3/18/2016 - 3/18/2016		10/5/2016 - 10/5/2016	
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

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/05/2016 10/05/2016	Oleg Yakimov

LM Start		Rating **	A	Issue No.	**3**
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_NA0008_01_s _ 2013_3				

Comment Code

Inspector Comment

District has levee O&M manuals.

No Photos

LM Start		Rating **	A	Issue No.	**8**
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_NA0008_01_s _ 2013_8				

Comment Code

Inspector Comment

District maintains a stockpile of flood fight response material.

No Photos

LM Start		Rating **	A	Issue No.	**9**
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_NA0008_01_s _ 2013_9				

Comment Code

Inspector Comment

District has written response plan and regular flood fight training.

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**0.28**	Rating **	U	Issue No.	**27**
LM End	**0.41**	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			38.722502 °	38.724168 °
				-121.666613 °	-121.667892 °
DWR ID	DWR_NA0008_01_s _ 2016_27				

Comment Code

Inspector Comment

Possible seepage. Could also be coming from the nearby ditch because of high water. Montior site.

Photo 1 of 1 : FA_2016_NA0008_256_27_20160913_00010.jpg

View of the seepage on the landward side of the levee looking upstream. Spring 2016.

LM Start	**0.87**	Rating **	M	Issue No.	**36**
LM End	**0.87**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.727869 °	38.727869 °
				-121.674875 °	-121.674875 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:11064
DS_ID:19361
EP_NO: 9302
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe exposed on WS slope in trench may need to be backfilled to prevent erosion under pipe.
FIELD_STRUCT_DESC: 20-inch steel irrigation pipe through the levee, 8.8 feet below the crown. Pump on steel pile structure at WS toe. Siphon breaker in 12-inch steel riser on LS slope. Possible butterfly valve at LS toe. (Permit No. 9302-Elliott 1974), Originally included in O+M manual (1953).
FS Date: 4/5/2013

Photo 1 of 2 : UCIP_FA_2016_11064_18426.jpg

Pump on pile at WS toe with pipe in open trench on LS slope.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**0.87**	Rating **	M	Issue No.	**36 (cont)**
LM End	**0.87**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.727869 °	38.727869 °
				-121.674875 °	-121.674875 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:11064
DS_ID:19361
EP_NO: 9302
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe exposed on WS slope in trench may need to be backfilled to prevent erosion under pipe.
FIELD_STRUCT_DESC: 20-inch steel irrigation pipe through the levee, 8.8 feet below the crown. Pump on steel pile structure at WS toe. Siphon breaker in 12-inch steel riser on LS slope. Possible butterfly valve at LS toe. (Permit No. 9302-Elliott 1974), Originally included in O+M manual (1953).
FS Date: 4/5/2013

Photo 2 of 2 : UCIP_FA_2016_11064_18425.jpg

Siphon brreaker in 12-inch steel riser on LS slope.

LM Start	**1.15**	Rating **	M	Issue No.	**37**
LM End	**1.15**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.730275 °	38.730275 °
				-121.678975 °	-121.678975 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:11065
DS_ID:19362
EP_NO: 9305
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Slope on WS shoulder appears to be eroding at pipes exit from levee. 36-inch conc riser on LS is filled with mud.
FIELD_STRUCT_DESC: 10-inch pipe through the levee, 5.8-feet below the crown. Pump at the waterward toe. 36-inch Concrete standpipe at the landward toe (Permit No. 9305-Bacchini). 5-inch steel-pipe sleeved through 10-inch pipe. Annular space Grouted. (Permit No. 6076-Bacchini). Originally included in O+M manual (1953).
FS Date: 4/5/2013

Photo 1 of 2 : UCIP_FA_2016_11065_18429.jpg

Pump on WS shoulder overgrown and may be abandoned.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**1.15**	Rating **	M	Issue No.	**37 (cont)**
LM End	**1.15**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.730275 °	38.730275 °
				-121.678975 °	-121.678975 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:11065
DS_ID:19362
EP_NO: 9305
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Slope on WS shoulder appears to be eroding at pipes exit from levee. 36-inch conc riser on LS is filled with mud.
FIELD_STRUCT_DESC: 10-inch pipe through the levee, 5.8-feet below the crown. Pump at the waterward toe. 36-inch Concrete standpipe at the landward toe (Permit No. 9305-Bacchini). 5-inch steel-pipe sleeved through 10-inch pipe. Annular space Grouted. (Permit No. 6076-Bacchini). Originally included in O+M manual (1953).
FS Date: 4/5/2013

Photo 2 of 2 : UCIP_FA_2016_11065_18428.jpg

Erosion at pipes exit from levee on WS shoulder.

LM Start	**1.20**	Rating **	C	Issue No.	**28**
LM End	**1.20**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.730835 °	38.730835 °
				-121.679718 °	-121.679718 °
DWR ID	DWR_NA0008_01_s _ 2016_28				

Comment Code

PR : Prunings

Inspector Comment

No Photos

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**1.57**	Rating **	M	Issue No.	**29**
LM End	**1.57**	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.735164 °	38.735164 °
				-121.683843 °	-121.683843 °
DWR ID	DWR_NA0008_01_s _ 2016_29				

Comment Code

C2 : Repair depressions or ruts in the crown or slope.

Inspector Comment

Photo 1 of 1 : FA_2016_NA0008_256_29_20160913_00012.jpg

View of the ruts on the crown of the levee looking downstream. Spring 2016.

LM Start	**1.59**	Rating **	M	Issue No.	**40**
LM End	**1.59**	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.735399 °	38.735399 °
				-121.684058 °	-121.684058 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:13204
DS_ID:19363
EP_NO: 9302
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Space between 16-inch and 24-inch pipe should be grouted. There is no pump on stand at WS toe.
FIELD_STRUCT_DESC: 24-inch steel pipe through the levee, 5.9-feet below the crown. 16-inch steel pipe sleeved through this pipe. No visible control valves. Pump on pile structure in stream. Siphon breaker on the landward slope. Discharges into concrete irrigation ditch off the landward toe (Permit No. 939, 1944). Also included in O+M manual (1953).
FS Date: 4/5/2013

Photo 1 of 2 : UCIP_FA_2016_13204_21588.jpg

16-inch pipe sleeved through 24-inch pipe on WS slope.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**1.59**	Rating **	M	Issue No.	**40 (cont)**
LM End	**1.59**	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.735399 °	38.735399 °
				-121.684058 °	-121.684058 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:13204
DS_ID:19363
EP_NO: 9302
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Space between 16-inch and 24-inch pipe should be grouted. There is no pump on stand at WS toe.
FIELD_STRUCT_DESC: 24-inch steel pipe through the levee, 5.9-feet below the crown. 16-inch steel pipe sleeved through this pipe. No visible control valves. Pump on pile structure in stream. Siphon breaker on the landward slope. Discharges into concrete irrigation ditch off the landward toe (Permit No. 939, 1944). Also included in O+M manual (1953).
FS Date: 4/5/2013

Photo 2 of 2 : UCIP_FA_2016_13204_21590.jpg

Siphon breaker on LS slope.

LM Start	**2.58**	Rating **	M	Issue No.	**39**
LM End	**2.58**	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.747110 °	38.747110 °
				-121.694415 °	-121.694415 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:11067
DS_ID:19364
EP_NO: 9307
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Siphon breaker on LS burried or broken off and missing.
FIELD_STRUCT_DESC: 1 of 2: 14-inch pipe through the levee, 5.4-feet below crown. Pump house on pile structure at the landward toe Siphon breaker on the landward slope. Service pole and anchor at landward toe (Permit No. 9307- Lowe). Originally included in O+M manual (1953).
FS Date: 4/5/2013

Photo 1 of 1 : UCIP_FA_2016_11067_18431.jpg

Pump and pipe on LS toe.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/05/2016 10/05/2016	Oleg Yakimov

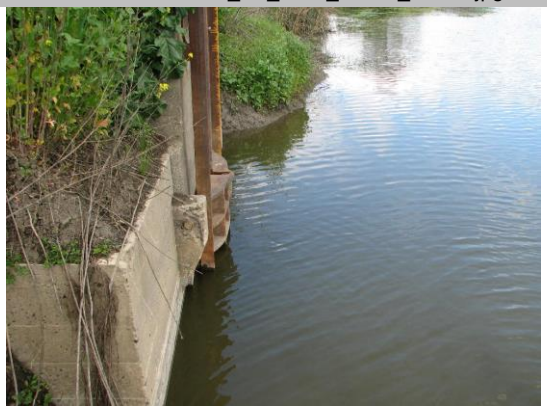
LM Start	**2.58**	Rating **	M	Issue No.	**41**
LM End	**2.58**	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.747204 °	38.747204 °
				-121.694440 °	-121.694440 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:13205
DS_ID:19391
EP_NO: 9307
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Walkway to actuater slide gate is missing. No method of actuating slide gate.
FIELD_STRUCT_DESC: 2 of 2: 4-foot x 4-foot concrete box culvert through the levee, 23 feet below the crown. Walkway to slide gate on the waterside end, concrete headwalls on both ends. Service pole and anchor at landward toe. Concrete headwalls on both ends (Permit No. 9307- Lowe).
FS Date: 4/5/2013

Photo 1 of 2 : UCIP_FA_2016_13205_21602.jpg



Slide gate and concrete headwall on WS toe.

LM Start	**2.58**	Rating **	M	Issue No.	**41 (cont)**
LM End	**2.58**	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_FA_2016_13205_21601.jpg

Concrete inlet on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**2.68**	Rating **	M	Issue No.	**43**
LM End	**2.68**	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.748524 °	38.748524 °
				-121.694788 °	-121.694788 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:41892
DS_ID:19383
EP_NO: 13164
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: Need to contact owner to determine status of crossing and install markers if appropriate.
FIELD_STRUCT_DESC: 4-inch steel natural gas collection pipe through the levee 2.8-feet below the crown. Pipe attached to downstream side of bridge. Design drawings available in permit. (Permit No. 13164, 1981)
FS Date: 4/5/2013

No Photos

LM Start	**2.69**	Rating **	M	Issue No.	**17**
LM End	**2.69**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.748460 °	38.748460 °
				-121.694842 °	-121.694842 °
DWR ID	DWR_NA0008_01_f _ 2016_17				

Comment Code

GA : Garbage

Inspector Comment

Photo 1 of 1 : FA_2016_NA0008_256_17_20161005_00040.jpg

Trash on levee crown near Co Rd 16 at the gate. Fall 2016.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**2.70**	Rating **	M	Issue No.	**18**
LM End	**2.70**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.748837 °	38.748837 °
				-121.694823 °	-121.694823 °
DWR ID	DWR_NA0008_01_f _ 2015_18				

Comment Code

PI : Pipe

Inspector Comment

Portion of the pipe seems to be replaced and the abandoned pipe is left at the toe of the landward side of the levee.

Photo 1 of 2 : FA_2016_NA0008_256_18_20160913_00003.jpg

View of the abandoned pipe at the toe of levee on the landward side. Fall 2015.

LM Start	**2.70**	Rating **	M	Issue No.	**18 (cont)**
LM End	**2.70**	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2016_NA0008_256_18_20160913_00004.jpg

The dark portion on the left pipe seems to have been replaced with a new pipe. Fall 2015.

LM Start	**3.36**	Rating **	M	Issue No.	**2**
LM End	**3.44**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.758432 °	38.759332 °
				-121.695158 °	-121.696063 °
DWR ID	DWR_NA0008_01_s _ 2016_2				

Comment Code

Inspector Comment

2011 - Toe scour and bank slumping. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: KLR_3-5_R]

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**3.50**	Rating **	U	Issue No.	**20**
LM End	**3.50**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.759910 °	38.759910 °
				-121.696920 °	-121.696920 °
DWR ID	DWR_NA0008_01_f _ 2015_20				

Comment Code

E1 : Note and monitor erosion site.

Inspector Comment

Photo 1 of 2 : FA_2016_NA0008_256_20_20160913_00005.jpg

Deep erosion at the bottom of the waterside slope 3-4 foot cut. Fall 2013

LM Start	**3.50**	Rating **	U	Issue No.	**20 (cont)**
LM End	**3.50**	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_NA0008_256_20_20160913_00006.jpg

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

LM Start	**3.78**	Rating **	U	Issue No.	**30**
LM End	**3.78**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.762886 °	38.762886 °
				-121.700406 °	-121.700406 °
DWR ID	DWR_NA0008_01_s _ 2016_30				

Comment Code

E1 : Note and monitor erosion site.

Inspector Comment

Hole is at the toe of the levee on the waterward side.

Photo 1 of 1 : FA_2016_NA0008_256_30_20160913_00013.jpg

View of the erosion at the toe of the levee on the waterward side. Spring 2016.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**3.84**	Rating **	A/W	Issue No.	**15**
LM End	**3.84**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.763460 °	38.763460 °
				-121.701097 °	-121.701097 °
DWR ID	DWR_NA0008_01_f _ 2016_15				

Comment Code

V7 : Trees / Woody Vegetation

Inspector Comment

Monitor trees that pose a future threat to the integrity of the levee.

Photo 1 of 1 : FA_2016_NA0008_256_15_20161005_00041.jpg

View of an old tree on waterward side of the levee. Subject to monitor. Fall 2016.

LM Start	**3.86**	Rating **	M	Issue No.	**31**
LM End	**3.86**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.763751 °	38.763751 °
				-121.701398 °	-121.701398 °
DWR ID	DWR_NA0008_01_s _ 2016_31				

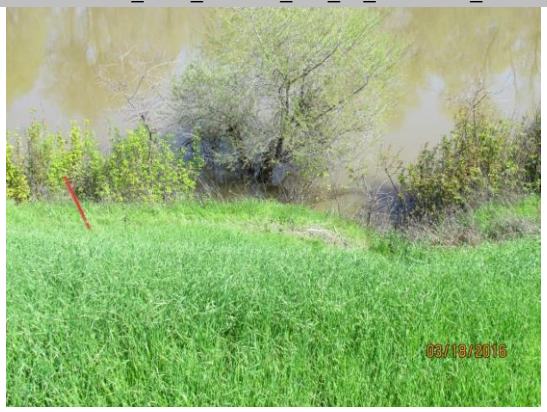
Comment Code

E1 : Note and monitor erosion site.

Inspector Comment

Erosion at the toe of the levee. LMA is monitoring erosion with stakes.

Photo 1 of 1 : FA_2016_NA0008_256_31_20160913_00014.jpg



View of the erosion at the toe of the levee on the waterward side. Spring 2016.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**3.88**	Rating **	M	Issue No.	**1**
LM End	**3.95**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.764037 °	38.764905 °
				-121.701434 °	-121.702074 °
DWR ID	DWR_NA0008_01_s _ 2016_1				

Comment Code

Inspector Comment

2011 - Toe erosion and erosion pockets from tree popouts. More tree popouts are expected due to the eroding toe. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: KLR_3-9_R]

No Photos

LM Start	**3.99**	Rating **	M	Issue No.	**16**
LM End	**4.66**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.765390 °	38.774760 °
				-121.702472 °	-121.705150 °
DWR ID	DWR_NA0008_01_f _ 2016_16				

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

No Photos

LM Start	**4.28**	Rating **	M	Issue No.	**21**
LM End	**4.28**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.769608 °	38.769608 °
				-121.703076 °	-121.703076 °
DWR ID	DWR_NA0008_01_f _ 2015_21				

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Photo 1 of 1 : FA_2016_NA0008_256_21_20160913_00007.jpg

View of the rodent holes on the waterward side of the levee looking upstream. Fall 2015.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**4.38**	Rating **	M	Issue No.	**22**
LM End	**4.88**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.771003°	38.777404°
				-121.703413°	-121.707412°
DWR ID	DWR_NA0008_01_f _ 2015_22				

Comment Code

DT : Ditch

Inspector Comment

Ditch is at the levee toe on the landward side.

Photo 1 of 1 : FA_2016_NA0008_256_22_20160913_00008.jpg

View of the ditch on the landward side of the levee looking upstream. Fall 2015.

LM Start	**4.89**	Rating **	M	Issue No.	**38**
LM End	**4.89**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.777566°	38.777566°
				-121.707591°	-121.707591°
DWR ID					

Comment Code

Inspector Comment

FS_ID:11264
DS_ID:19367
EP_NO: 4443
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe does not have adequate cover at crown.
FIELD_STRUCT_DESC: 16-inch drainage pipe through the levee 0.5-feet below the crown. Pad constructed over pipe for vehicular crossing. Pump on metal structure on the landward side, flap gate on the waterside end, Siphon breaker on the pipe on the waterside. Slide gate located on LS toe. (Permit No. 4443-RD 730). Design drawings available in permit.
FS Date: 4/5/2013

Photo 1 of 2 : UCIP_FA_2016_11264_18622.jpg

Pump and pipe on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**4.89**	Rating **	M	Issue No.	**38 (cont)**
LM End	**4.89**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.777566 °	38.777566 °
				-121.707591 °	-121.707591 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:11264
DS_ID:19367
EP_NO: 4443
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe does not have adequate cover at crown.
FIELD_STRUCT_DESC: 16-inch drainage pipe through the levee 0.5-feet below the crown. Pad constructed over pipe for vehicular crossing. Pump on metal structure on the landward side, flap gate on the waterside end, Siphon breaker on the pipe on the waterside. Slide gate located on LS toe. (Permit No. 4443-RD 730). Design drawings available in permit.
FS Date: 4/5/2013

Photo 2 of 2 : UCIP_FA_2016_11264_18621.jpg

Siphon and air vent on WS shoulder.

LM Start	**5.29**	Rating **	C	Issue No.	**32**
LM End	**5.29**	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.781712 °	38.781712 °
				-121.712819 °	-121.712819 °
DWR ID	DWR_NA0008_01_s _ 2016_32				

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 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**5.77**	Rating **	M	Issue No.	**33**
LM End	**5.77**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.786638 °	38.786638 °
				-121.719040 °	-121.719040 °
DWR ID	DWR_NA0008_01_s _ 2016_33				

Comment Code

PR : Prunings

Inspector Comment

Photo 1 of 1 : FA_2016_NA0008_256_33_20160913_00016.jpg

View of the pruning piles on the landward side of the levee looking upstream. Spring 2016.

LM Start	**6.00**	Rating **	M	Issue No.	**42**
LM End	**6.00**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.788921 °	38.788921 °
				-121.721985 °	-121.721985 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:41068
DS_ID:19397
EP_NO: 5276
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe appears abandoned at this time.
FIELD_STRUCT_DESC: 2 of 2: 20-inch steel irrigation pipe through the levee 4.9-feet below the crown. Vertical pump unit on pile structure in stream. Siphon breaker on the landward shoulder in 16-inch steel riser. Flap gate on the landward end. Discharges into irrigation ditch at the landward side. (Permit No. 5276-RD 730 replaced an 18-inch at this location). Steel plate welded over end of pipe at pump structure.
FS Date: 4/5/2013

Photo 1 of 2 : UCIP_FA_2016_41068_18643.jpg

Pump on steel structure at WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**6.00**	Rating **	M	Issue No.	**42 (cont)**
LM End	**6.00**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.788921 °	38.788921 °
				-121.721985 °	-121.721985 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:41068
DS_ID:19397
EP_NO: 5276
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe appears abandoned at this time.
FIELD_STRUCT_DESC: 2 of 2: 20-inch steel irrigation pipe through the levee 4.9-feet below the crown. Vertical pump unit on pile structure in stream. Siphon breaker on the landward shoulder in 16-inch steel riser. Flap gate on the landward end. Discharges into irrigation ditch at the landward side. (Permit No. 5276-RD 730 replaced an 18-inch at this location). Steel plate welded over end of pipe at pump structure.
FS Date: 4/5/2013

Photo 2 of 2 : UCIP_FA_2016_41068_18642.jpg

Steel plate welded over pipe end at pump platform.

LM Start	**6.06**	Rating **	C	Issue No.	**34**
LM End	**6.06**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.789539 °	38.789539 °
				-121.722832 °	-121.722832 °
DWR ID	DWR_NA0008_01_s _ 2016_34				

Comment Code

E2 : Schedule repair of erosion site prior to the next inspection.

Inspector Comment

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**6.07**	Rating **	M	Issue No.	**7**
LM End	**6.34**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.789641 °	38.792433 °
				-121.722958 °	-121.726463 °
DWR ID	DWR_NA0008_01_s _ 2012_7				

Comment Code

EQ : Equipment

Inspector Comment

Equipment are on the slope of the levee.

Photo 1 of 2 : FA_2016_NA0008_256_7_20160913_00001.jpg

View of the equipment on the landward side of the levee looking upstream. Fall 2015.

LM Start	**6.07**	Rating **	M	Issue No.	**7 (cont)**
LM End	**6.34**	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2016_NA0008_256_7_20160913_00002.jpg

A current view of the equipment on the levee slope. Spring 2014

LM Start	**6.12**	Rating **	C	Issue No.	**35**
LM End	**6.12**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.790159 °	38.790159 °
				-121.723549 °	-121.723549 °
DWR ID	DWR_NA0008_01_s _ 2016_35				

Comment Code

E1 : Note and monitor erosion site.

Inspector Comment

There are multiple erosions in the same area.

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**6.23**	Rating **	M	Issue No.	**24**
LM End	**6.23**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.791286 °	38.791286 °
				-121.725034 °	-121.725034 °
DWR ID	DWR_NA0008_01_f _ 2015_24				

Comment Code

A1 : Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

Ground squirrels are seen in this area.

Photo 1 of 1 : FA_2016_NA0008_256_24_20160913_00009.jpg

View of the rodent holes on the waterward side of the levee looking downstream. Fall 2015.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles
Unit No. 02 Knights Landing Ridge Cut	Left	6.03

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			**U**	
Date of Inspection	3/18/2016 - 3/18/2016		10/5/2016 - 10/5/2016	
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

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**0.99**	Rating **	M	Issue No.	**228**
LM End	**0.99**	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.733120 °	38.733120 °
				-121.679383 °	-121.679383 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:11307
DS_ID:19370
EP_NO: 9320
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Appears abandoned as pump is missing from platform.
FIELD_STRUCT_DESC: 16-inch steel pipe through the levee 2.8-feet below the crown. Discharges into 36-inch concrete standpipe at levee toe. Pump on steel pile structure in stream with metal walkway. Two service poles on the waterward slope. (Permit No. 9320-Pollock) Originally included in O+M manual 1953.
FS Date: 4/9/2013

Photo 1 of 2 : UCIP_FA_2016_11307_18708.jpg

Pipe at 36-inch Concrete standpipe on LS toe.

LM Start	**0.99**	Rating **	M	Issue No.	**228 (cont)**
LM End	**0.99**	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_FA_2016_11307_18707.jpg

Pump platform and walkway on WS toe.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**1.34**	Rating **	M	Issue No.	**22**
LM End	**1.54**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.737214 °	38.739591 °
				-121.683159 °	-121.685327 °
DWR ID	DWR_NA0008_02_f _ 2016_22				

Comment Code

DT : Ditch

Inspector Comment

Ditch within 10 feef from levee toe on LS.

Photo 1 of 1 : FA_2016_NA0008_257_22_20161005_00024.jpg

View of a ditch near landside toe. Fall 2016.

LM Start	**2.26**	Rating **	M	Issue No.	**230**
LM End	**2.26**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.748282 °	38.748282 °
				-121.692652 °	-121.692652 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:11304
DS_ID:19388
EP_NO: 15517
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Pipe alignment should be marked at levee crossing.
FIELD_STRUCT_DESC: 8-inch natural gas pipeline through the levee 50-feet below the crown. (Permit No. 15517, 1991). Design drawings available in permit.
FS Date: 4/9/2013

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**2.28**	Rating **	U	Issue No.	**231**
LM End	**2.28**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.748505 °	38.748505 °
				-121.692697 °	-121.692697 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50106
DS_ID:19386
EP_NO: 13164
Repair Type: Urgent
Crossing Status: Indicator Found
UCIP Comments: 09/01/2016 - Markers present on the edges of Road 16. Alignment indicated by markers shows parallel alignment to the levee. Permit indicates pipe crosses levee and therefore should have markers indicating where it crosses the levee. (T. Hatch/UCIP)04/08/2013 - Need to have pipe located and marked properly if still in use. (W. Wylie/UCIP)
FIELD_STRUCT_DESC: 4-inch steel natural gas collection pipe through the levee 3.2-feet below the crown. The permit indicates that the pipe was installed on the northern shoulder of road 16 and crosses the Knights Landing Ridge Cut on the northern side of the Road 16 Bridge (Permit No. 13164, 1981 - Shell Oil Company).
FS Date: 9/1/2016

Photo 1 of 2 : UCIP_FA_2016_50106_18700.jpg

Sign on LS shoulder may indicate location of pipe, or it may indicate where pipe crosses approach ramp to bridge.

LM Start	**2.28**	Rating **	U	Issue No.	**231 (cont)**
LM End	**2.28**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_50106_75964.jpg

View from the levee crown looking toward the LS of the levee. gas line marker signs are visible marking an alignment parallel to the levee.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**2.72**	Rating **	M	Issue No.	**2**
LM End	**2.93**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.754899 °	38.757925 °
				-121.692653 °	-121.693048 °
DWR ID	DWR_NA0008_02_s _ 2016_2				

Comment Code

Inspector Comment

2006 - The whole levee toe area is slowly slumping into the channel (creep) due to dewatering and poor slope soils. Occasional piping in the levee slope evident as well. Pistol-butted trees at the levee toe indicate slow retreat. 2011 - Multiple scallops throughout the site and slumping of the toe. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: KLR_3-0_L]

No Photos

LM Start	**2.98**	Rating **	M	Issue No.	**5**
LM End	**3.11**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.758587 °	38.760053 °
				-121.693359 °	-121.694686 °
DWR ID	DWR_NA0008_02_s _ 2016_5				

Comment Code

Inspector Comment

2006 - The whole levee toe area is slowly slumping into the channel (creep) due to dewatering and poor slope soils. Occasional piping in the levee slope evident as well. Pistol-butted trees at the levee toe indicate slow retreat. 2011 - Slumping of the levee toe. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: KLR_3-1_L]

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**3.60**	Rating **	M	Issue No.	**3**
LM End	**3.73**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.765522 °	38.767336 °
				-121.700608 °	-121.701023 °
DWR ID	DWR_NA0008_02_s _ 2016_3				

Comment Code

Inspector Comment

2011 - The toe has eroded away and there are a few scallops from bank slumping. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: KLR_3-7_L]

No Photos

LM Start	**4.30**	Rating **	M	Issue No.	**4**
LM End	**4.55**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.775271 °	38.778115 °
				-121.703685 °	-121.706195 °
DWR ID	DWR_NA0008_02_s _ 2016_4				

Comment Code

Inspector Comment

2011 - This site is the downstream section of the old KLR 5.3L site. Levee toe is slowly retreating. Cracking on top of the levee may indicate potential mass movement. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: KLR_4-7_L]

No Photos

LM Start	**4.35**	Rating **	C	Issue No.	**23**
LM End	**4.35**	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.775988 °	38.775988 °
				-121.703887 °	-121.703887 °
DWR ID	DWR_NA0008_02_f _ 2015_23				

Comment Code

TR : Tree or limb

Inspector Comment

No Photos

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**4.59**	Rating **	C	Issue No.	**15**
LM End	**4.59**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.778773 °	38.778773 °
				-121.706482 °	-121.706482 °
DWR ID	DWR_NA0008_02_s _ 2014_15				

Comment Code

TR : Tree or limb

Inspector Comment

Tree may have been struck by lightning and split into 3 parts. Identified trees shall be removed and associated root balls and roots shall be appropriately removed since it threatens the integrity of the levee.

No Photos

LM Start	**4.76**	Rating **	M	Issue No.	**21**
LM End	**4.76**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.780496 °	38.780496 °
				-121.708671 °	-121.708671 °
DWR ID	DWR_NA0008_02_f _ 2015_21				

Comment Code

CR1 : Monitor and have inspected by geotechnical engineer.

Inspector Comment

Dessication crack is 7 inches wide and 2 feet deep.

Photo 1 of 1 : FA_2016_NA0008_257_21_20160913_00011.jpg

View of the dessication crack on the waterward side of the levee looking downstream. Fall 2015.

LM Start	**4.79**	Rating **	M	Issue No.	**227**
LM End	**4.79**	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.780858 °	38.780858 °
				-121.709095 °	-121.709095 °
DWR ID	DWR_NA0008_02_f _ 2013_227				

Comment Code

CR1 : Monitor and have inspected by geotechnical engineer.

Inspector Comment

Photo 1 of 2 : FA_2016_NA0008_257_227_20160913_00013.jpg

Another view of the cracking on the levee slope. Fall 2013

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**4.79**	Rating **	M	Issue No.	**227 (cont)**
LM End	**4.79**	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.780858 °	38.780858 °
				-121.709095 °	-121.709095 °
DWR ID	DWR_NA0008_02_f _ 2013_227				

Comment Code

CR1 : Monitor and have inspected by geotechnical engineer.

Inspector Comment

Photo 2 of 2 : FA_2016_NA0008_257_227_20160913_00014.jpg

Cracking on levee slope 1-2 inches wide and 6 inches deep. Fall 2013

LM Start	**5.16**	Rating **	M	Issue No.	**20**
LM End	**5.16**	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.784587 °	38.784587 °
				-121.713834 °	-121.713834 °
DWR ID	DWR_NA0008_02_f _ 2016_20				

Comment Code

GA : Garbage

Inspector Comment

Photo 1 of 1 : FA_2016_NA0008_257_20_20161005_00025.jpg

Trash on waterside slope. Fall 2016.

LM Start	**5.34**	Rating **	M	Issue No.	**13**
LM End	**5.34**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.786504 °	38.786504 °
				-121.716261 °	-121.716261 °
DWR ID	DWR_NA0008_02_f _ 2016_13				

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Photo 1 of 1 : FA_2016_NA0008_257_13_20161005_00026.jpg

View of a rodent hole on LS slope. Fall 2016.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**5.36**	Rating **	M	Issue No.	**6**
LM End	**5.93**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.786566 °	38.792395 °
				-121.716724 °	-121.724091 °
DWR ID	DWR_NA0008_02_s _ 2016_6				

Comment Code

Inspector Comment

2011 - This site is the upstream section of the old KLR 5.3L site. Levee toe is slowly retreating. Cracking on top of the levee may indicate potential mass movement. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: KLR_5-8_L]

No Photos

LM Start	**5.54**	Rating **	C	Issue No.	**17**
LM End	**5.54**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.788592 °	38.788592 °
				-121.718902 °	-121.718902 °
DWR ID	DWR_NA0008_02_f _ 2015_17				

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
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

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**5.55**	Rating **	M	Issue No.	**229**
LM End	**5.55**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.788662 °	38.788662 °
				-121.718997 °	-121.718997 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:11289
DS_ID:19375
EP_NO: 3671
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Electrical panal missing parts. Siphon breaker missing from pipe on LS. Pipe heavily corroded at outlet with holes present. Appears abandoned-should be abandoned properly.
FIELD_STRUCT_DESC: 20-inch steel pipe through the levee, 5.5-feet below the crown. Siphon breaker in a steel pipe riser on the landward slope. Metal cutoff wall . Service pole on the waterward slope. (Permit No. 3671-Wallace Replaced 20-inch pipe at same location in 1961)
FS Date: 4/9/2013

Photo 1 of 2 : UCIP_FA_2016_11289_18665.jpg

Pump on pile structure on WS toe.

LM Start	**5.55**	Rating **	M	Issue No.	**229 (cont)**
LM End	**5.55**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_11289_18664.jpg

Missing siphon breaker on LS slope.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

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

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**5.66**	Rating **	U	Issue No.	**16**
LM End	**5.66**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.789794 °	38.789794 °
				-121.720338 °	-121.720338 °
DWR ID	DWR_NA0008_02_f _ 2015_16				

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_NA0008_257_16_20160913_00004.jpg

Perspective view of the animal hole on the landward side of the levee looking downstream. Fall 2015.

LM Start	**5.66**	Rating **	U	Issue No.	**16 (cont)**
LM End	**5.66**	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_NA0008_257_16_20160913_00005.jpg

There seems to be more than 2 cubic feet of material on the landward side of the levee. Fall 2015.

LM Start	**5.72**	Rating **	M	Issue No.	**19**
LM End	**5.72**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.790385 °	38.790385 °
				-121.721131 °	-121.721131 °
DWR ID	DWR_NA0008_02_f _ 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	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

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Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**5.79**	Rating **	M	Issue No.	**18**
LM End	**5.79**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.791169 °	38.791169 °
				-121.722147 °	-121.722147 °
DWR ID	DWR_NA0008_02_f _ 2015_18				

Comment Code

DT : Ditch

Inspector Comment

Ditch is dug on the landside slope of the levee.

Photo 1 of 3 : FA_2016_NA0008_257_18_20160913_00008.jpg

Perspective view of the ditch on the landward slope of the levee looking downstream. Fall 2015.

LM Start	**5.79**	Rating **	M	Issue No.	**18 (cont)**
LM End	**5.79**	Issue Type +	En	Location *	LS

Photo 2 of 3 : FA_2016_NA0008_257_18_20160913_00009.jpg

The ditch is dug onto the landward slope of the levee. Fall 2015.

LM Start	**5.79**	Rating **	M	Issue No.	**18 (cont)**
LM End	**5.79**	Issue Type +	En	Location *	LS

Photo 3 of 3 : FA_2016_NA0008_257_18_20160913_00010.jpg

View of the ditch on the landward slope of the levee. Spring 2016.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

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Levee Inspection Report By Mile - Fall 2016

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/05/2016 10/05/2016	Oleg Yakimov

LM Start	**5.80**	Rating **	M	Issue No.	**12**
LM End	**5.80**	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.791253 °	38.791253 °
				-121.722250 °	-121.722250 °
DWR ID	DWR_NA0008_02_f _ 2016_12				

Comment Code

C2 : Repair depressions or ruts in the crown or slope.

Inspector Comment

No Photos

LM Start	**5.93**	Rating **	C	Issue No.	**14**
LM End	**5.93**	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.792586 °	38.792586 °
				-121.723967 °	-121.723967 °
DWR ID	DWR_NA0008_02_s _ 2016_14				

Comment Code

C2 : Repair depressions or ruts in the crown or slope.

Inspector Comment

No Photos

LM Start	**5.94**	Rating **	U	Issue No.	**1**
LM End	**5.94**	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.792735 °	38.792735 °
				-121.724092 °	-121.724092 °
DWR ID	DWR_NA0008_02_s _ 2012_1				

Comment Code

FE : Fence

Inspector Comment

Fence blocks access to NW part of the levee. Strawberries are being grown landside levee slope and crown

Photo 1 of 1 : FA_2016_NA0008_257_1_20160913_00001.jpg

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

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
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Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	10/05/2016 10/05/2016	Oleg Yakimov

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement