

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2020 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)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2020 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)				
Date of Inspection	3/25/2020 - 3/25/2020			
DWR Inspector	Zach Jojola			
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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	03/25/2020 03/25/2020	Zach Jojola

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		o	o	o
DWR ID	DWR_NA0008_01_s_2017_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		o	o	o
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		o	o	o
DWR ID	DWR_NA0008_01_s_2020_9				
Comment Code					
Inspector Comment					
District has written response plan and regular flood fight training.					

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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	03/25/2020 03/25/2020	Zach Jojola

LM Start	0.25	Rating **	M	Issue No.	33 (cont)
LM End	0.25	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.722222 °	38.722222 °
				-121.666357 °	-121.666357 °
DWR ID	19360				

Photo 2 of 3 : UCIP_SP_2020_55381_81600.jpg



Concrete distribution box on LS toe

LM Start	0.25	Rating **	M	Issue No.	33 (cont)
LM End	0.25	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_55381_81601.jpg



Slide gate on metal stand on WS toe needs removal

LM Start	0.75	Rating **	M	Issue No.	25
LM End	1.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.727005 °	38.729294 °
				-121.672975 °	-121.677450 °
DWR ID	DWR_NA0008_01_s_2020_25				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	03/25/2020 03/25/2020	Zach Jojola

LM Start	0.75	Rating **	M	Issue No.	24
LM End	1.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.727005 °	38.730126 °	
			-121.672975 °	-121.678768 °	
DWR ID	DWR_NA0008_01_s_2020_24				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.87	Rating **	U	Issue No.	34
LM End	0.87	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.727869 °	38.727869 °	
			-121.674875 °	-121.674875 °	
DWR ID	19361				
Comment Code					
Inspector Comment					
DS_ID:19361 FS_ID:55685 EP_NO: 9302 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Record has been updated from Non-Urgent to Urgent, excavation into WS slope and around pipe noted in USACE PI and UCIP 2013 inspection. Unable to confirm in 2019 whether excavation is still present on the WS slope due to dense vegetation on the WS. (O.Yakimov - DWR UCIP) 04/05/2013 Pipe exposed on WS slope in trench may need to be backfilled to prevent erosion under pipe. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 20-inch steel irrigation pipe through the levee, 8.8 feet below the crown. Pump on a steel pile structure at the waterside (WS) toe. Siphon breaker in a 12-inch steel riser on the landside (LS) slope. Possible butterfly valve at the LS toe. (36-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No.9302, 1974 - Barbara Lowe Elliott). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 32+94)]. FS Date: 10/8/2019					

Photo 1 of 3 : UCIP_SP_2020_55685_82412.jpg



View of LS looking from levee crown

* 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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	03/25/2020 03/25/2020	Zach Jojola

LM Start	0.87	Rating **	M	Issue No.	35
LM End	0.87	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.727869 °	38.727869 °	
			-121.674875 °	-121.674875 °	
DWR ID	22967				
Comment Code					
Inspector Comment					
DS_ID:22967 FS_ID:55686 EP_NO: 9302 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/8/2019 Record updated from No Action Needed to Non-Urgent. Vegetation on LS slope interferes complete slope inspection. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 2.5-inch electrical conduit of an unknown material through the levee, 8.8 feet below the crown. Provides service for pump at the waterside (WS) toe. (36-inch pipe authorized under Permit No. 9302, 1974 - Barbara Lowe Elliott). [Additional Reference(s): USACE Sacramento O&M Manual 127, June 1953]. FS Date: 10/8/2019 3:10:34 PM					

Photo 1 of 2 : UCIP_SP_2020_55686_82415.jpg



Meter and breakers at LS toe

LM Start	0.87	Rating **	M	Issue No.	35 (cont)
LM End	0.87	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2020_55686_82416.jpg



Electric conduit runs parallel toirrigation pipe along WS 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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	03/25/2020 03/25/2020	Zach Jojola

LM Start	1.15	Rating **	U	Issue No.	36 (cont)
LM End	1.15	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.730275 °	38.730275 °
				-121.678975 °	-121.678975 °
DWR ID	19362				

Photo 2 of 3 : UCIP_SP_2020_55687_82417.jpg



Disconnected 5-inch steel pipe on WS levee shoulder

LM Start	1.15	Rating **	U	Issue No.	36 (cont)
LM End	1.15	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55687_83351.jpg



12-inch and 6-inch pipes visible

LM Start	1.58	Rating **	M	Issue No.	27
LM End	1.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.735245 °	38.735245 °
				-121.683928 °	-121.683928 °
DWR ID	DWR_NA0008_01_s_2020_27				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Ruts on the waterside slope.					

Photo 1 of 1 : SP_2020_NA0008_256_27_20200325_00047.jpg



View of tire ruts on the waterside shoulder. Spring 2020.

* 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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	03/25/2020 03/25/2020	Zach Jojola

LM Start	1.59	Rating **	M	Issue No.	37 (cont)
LM End	1.59	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.735399 °	38.735399 °
				-121.684058 °	-121.684058 °
DWR ID	19363				

Photo 3 of 3 : UCIP_SP_2020_55692_82435.jpg



Siphon breaker and a cutout in 24-inch pipe at LS shoulder

LM Start	1.67	Rating **	M	Issue No.	29
LM End	2.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.736333 °	38.746151 °
				-121.684899 °	-121.693852 °
DWR ID	DWR_NA0008_01_s_2020_29				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	1.67	Rating **	M	Issue No.	28
LM End	2.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.736333 °	38.747918 °
				-121.684899 °	-121.694704 °
DWR ID	DWR_NA0008_01_s_2020_28				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	03/25/2020 03/25/2020	Zach Jojola

LM Start	2.58	Rating **	M	Issue No.	38
LM End	2.58	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		38.747110 °	38.747110 °	
			-121.694415 °	-121.694415 °	
DWR ID	19364				
Comment Code					
Inspector Comment					
DS_ID:19364 FS_ID:55698 EP_NO: 9307 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 0/08/2019 Record remains Non-Urgent, due to maintenance issue. Siphon breaker not found on LS slope: can be burried or broken off. Pipe outlet not found on WS. CVFPB is working with current owner to approve the removal and replacement of existing 14-inch pipe under draft Permit 9307-1. Work under permit 9307-1 not started. (O.Yakimov - DWR UCIP) 04/05/2013 Siphon breaker on LS burried or broken off and missing. (W.Wylie - DWR UCIP) FIELD_STRUCT_DESC: 14-inch steel drainage pipe through the levee, 5.4 feet below the crown. Pump house on a pile structure at the landside (LS) toe. Siphon breaker on the LS slope. Service pole and anchor at the LS toe. (14-inch pipe [HLM 2.62] authorized under Automatic Board Order (ABO) issued as Permit No. 9307, 1974 - Azalene E. Lowe; a 12-foot section of an existing 14-inch pipe on LS scheduled to be replaced and name change under DRAFT Permit No. 9307-1, 2016 - Ann Grube). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 123+25)]. FS Date: 10/8/2019 8:30:25 AM					

Photo 1 of 3 : UCIP_SP_2020_55698_82444.jpg



View of LS looking from levee crown

LM Start	2.58	Rating **	M	Issue No.	38 (cont)
LM End	2.58	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2020_55698_82445.jpg



Pumping platform on pile structure

* 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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	03/25/2020 03/25/2020	Zach Jojola

LM Start	2.58	Rating **	M	Issue No.	38 (cont)
LM End	2.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.747110 °	38.747110 °
				-121.694415 °	-121.694415 °
DWR ID	19364				

Photo 3 of 3 : UCIP_SP_2020_55698_82446.jpg



Not found siphon breaker on LS slope

LM Start	2.58	Rating **	M	Issue No.	39
LM End	2.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.747204 °	38.747204 °
				-121.694440 °	-121.694440 °
DWR ID	19391				

Photo 1 of 3 : UCIP_SP_2020_55708_82487.jpg



View of LS looking from levee crown

Comment Code					
Inspector Comment					
DS_ID:19391 FS_ID:55708 EP_NO: 9307 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/8/2019 Record remains Non-Urgent. slide gate actuator is not accessible without use of equipment. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP) 04/05/2013 Walkway to actuator slide gate is missing. No method of actuating slide gate. (W.Wylie - DWR UCIP) FIELD_STRUCT_DESC: 48-inch by 48-inch reinforced concrete box drainage culvert through the levee, 23 feet below the crown. Walkway to slide gate on the waterside (WS) end. Concrete headwalls on both ends. Service pole and anchor at the landside (LS) toe. Concrete headwalls on both ends. (four foot by four foot culvert [HLM 2.62] authorized under Automatic Board Order (ABO) issued as Permit No. 9307, 1974 - Azalene E. Lowe). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 123+55.5)]. FS Date: 10/8/2019 10:14:53 AM					

* 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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	03/25/2020 03/25/2020	Zach Jojola

LM Start	2.67	Rating **	M	Issue No.	40 (cont)
LM End	2.67	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		38.748391 °	38.748391 °	
			-121.694814 °	-121.694814 °	
DWR ID	19365				

Photo 3 of 3 : UCIP_SP_2020_55711_82500.jpg



Concrete sump at pumping house

LM Start	2.67	Rating **	M	Issue No.	41
LM End	2.67	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		38.748404 °	38.748404 °	
			-121.694818 °	-121.694818 °	
DWR ID	19392				

Photo 1 of 3 : UCIP_SP_2020_55712_82512.jpg



View of levee crown at the crossing

Comment Code					
Inspector Comment					
DS_ID:19392 FS_ID:55712 EP_NO: 9301 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/8/2019 Record updated from No Action Needed to Non-Urgent. Need to have CVFPB review ABO and determine current owner. (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 2 of 2: 24-inch steel drainage pipe through the levee, 7.3 feet below the crown. Pump house mounted on concrete box in irrigation ditch at the landside (LS) toe. Siphon breaker in riser on the waterside (WS) slope. (one 24-inch and one 18-inch pipes [HLM 2.7] authorized under Automatic Board Order (ABO) issued as Permit No. 9301, 1974 - Reclamation District No. 730). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 128+00)]. FS Date: 10/8/2019 1:07:27 PM					

* 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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	03/25/2020 03/25/2020	Zach Jojola

LM Start	2.68	Rating **	M	Issue No.	42
LM End	2.68	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.748524 °	38.748524 °	
			-121.694788 °	-121.694788 °	
DWR ID	19383				
Comment Code					
Inspector Comment					
DS_ID:19383 FS_ID:55716 EP_NO: 13164 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 10/8/2019 Record remains Non-Urgent. No inspection records were available to determine status of line through the levee. Missing gas line markers. (O.Yakimov - DWR UCIP)04/05/2013 Need to contact owner to determine status of crossing and install markers if appropriate. (W.Wylie - DWR UCIP) FIELD_STRUCT_DESC: 4-inch coated steel natural gas collection pipe through the levee, 2.8 feet below the crown. Pipe attached to the downstream side of the bridge. (4-inch gas collection pipe authorized under Permit No. 13164, 1981 - Shell Oil Company). Design drawings available in permit. FS Date: 10/8/2019 1:23:53 PM					

No Photos

LM Start	2.70	Rating **	C	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					
DE : Debris					
Inspector Comment					
A portion of the pipe seems to have been replaced and the abandoned pipe is left at the toe of the landward side of the levee.					

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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	03/25/2020 03/25/2020	Zach Jojola

LM Start	2.70	Rating **	M	Issue No.	43 (cont)
LM End	2.70	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.748909 °	38.748909 °
				-121.694811 °	-121.694811 °
DWR ID	19394				

Photo 3 of 3 : UCIP_SP_2020_55721_82555.jpg



View of LS looking from levee crown

LM Start	2.71	Rating **	M	Issue No.	44
LM End	2.71	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.748929 °	38.748929 °
				-121.694749 °	-121.694749 °
DWR ID	19395				

Comment Code

Inspector Comment

DS_ID:19395
 FS_ID:55722
 EP_NO: 8752
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 10/08/2019 Record has been updated from No Action Needed to Non-Urgent, signs of potential issues with levee. Top of concrete C-shaped headwall on LS berm is tilting towards the levee, cracks in concrete observed. Erosion around the headwall off LS levee toe. Although pipes don't seem to be leaning on the headwall, a sloughing may occur if headwall fails. Recommend closer observation of the crossing. (O.Yakimov - DWR UCIP)
 FIELD_STRUCT_DESC: 2 of 2: 24-inch steel drainage pipe through the levee, 3 feet below the crown. Siphon breaker on pipe on the waterside (WS) shoulder with a pump on a steel pile structure at the landside (LS) toe. Butterfly shutoff valve at the LS toe. (Permit No. 8752, 1973 - Reclamation District No. 730). Some design drawings available.
 [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 129+75), replaced in 1973 under PN 8752].
 FS Date: 10/8/2019 2:17:18 PM

Photo 1 of 3 : UCIP_SP_2020_55722_82559.jpg



View of LS looking from levee crown

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	N/A : Not Applicable A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected 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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	03/25/2020 03/25/2020	Zach Jojola

LM Start	2.71	Rating **	M	Issue No.	44 (cont)
LM End	2.71	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.748929 °	38.748929 °
				-121.694749 °	-121.694749 °
DWR ID	19395				

Photo 2 of 3 : UCIP_SP_2020_55722_82563.jpg



View of WS looking from levee crown

LM Start	2.71	Rating **	M	Issue No.	44 (cont)
LM End	2.71	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55722_82560.jpg



LS levee slope and pipe

LM Start	3.36	Rating **	M	Issue No.	19
LM End	3.44	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.758432 °	38.759332 °
				-121.695158 °	-121.696063 °
DWR ID	DWR_NA0008_01_f_2018_19				
Comment Code					
Inspector Comment					
2017 Site ID: KLR 3.5 R Status: Eroding 2017 Field Notes: Access Issues - Could not observe Site History: 2011 - Toe scour and bank slumping.					

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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	03/25/2020 03/25/2020	Zach Jojola

LM Start	3.50	Rating **	M	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					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 2 : SP_2020_NA0008_256_20_20200228_00005.jpg



View of erosion on the waterside slope. Spring 2018.

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

Photo 2 of 2 : SP_2020_NA0008_256_20_20200228_00006.jpg



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

LM Start	3.78	Rating **	M	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_2017_30				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
There is a hole from a fallen tree at the waterside toe.					

Photo 1 of 1 : SP_2020_NA0008_256_30_20200228_00009.jpg



View of hole at the waterside toe. Spring 2019.

* 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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	03/25/2020 03/25/2020	Zach Jojola

LM Start	3.86	Rating **	A/W	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_2018_31				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
The erosion appears to be stable. LMA continues to monitor.					

Photo 1 of 2 : SP_2020_NA0008_256_31_20200228_00010.jpg



View of the erosion at the waterside toe. Fall 2019.

LM Start	3.86	Rating **	A/W	Issue No.	31 (cont)
LM End	3.86	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2020_NA0008_256_31_20200228_00011.jpg



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

LM Start	3.88	Rating **	M	Issue No.	21
LM End	3.95	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 USACE Erosion Survey		38.764037 °	38.764905 °	
			-121.701434 °	-121.702074 °	
DWR ID	DWR_NA0008_01_f_2018_21				
Comment Code					
Inspector Comment					
2017 Site ID: KLR 3.9 R Status: Eroding 2017 Field Notes: Access Issues - Could not observe Site History: 2011 - Toe erosion and erosion pockets from tree popouts. More tree popouts are expected due to the eroding toe.					

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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	03/25/2020 03/25/2020	Zach Jojola

LM Start	6.00	Rating **	M	Issue No.	45
LM End	6.00	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.788921 °	38.788921 °	
			-121.721985 °	-121.721985 °	
DWR ID	19397				
Comment Code					
Inspector Comment					
DS_ID:19397 FS_ID:55745 EP_NO: 5276 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Record remains Non-Urgent, pipe has been abandoned. Pipe is capped under pumping platform. (O.Yakimov - DWR UCIP) 04/05/2013 Pipe appears abandoned at this time. (W.Wylie - DWR UCIP) 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 landside (LS) shoulder in a 16-inch steel riser. Flap gate on the LS end. Pipe discharges into an irrigation ditch on the LS. Steel plate welded over end of pipe at pump structure. (Replacement of an existing 18-inch pipe at this location authorized under Permit No. 5276, 1966 - Reclamation District No. 730). [Additional Reference(s): DWR Levee Log, 1990]. FS Date: 10/8/2019 9:26:13 AM					

Photo 1 of 3 : UCIP_SP_2020_55745_82656.jpg



View of WS looking from levee crown

LM Start	6.00	Rating **	M	Issue No.	45 (cont)
LM End	6.00	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2020_55745_82659.jpg



View of LS looking from levee crown

* 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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	03/25/2020 03/25/2020	Zach Jojola

LM Start	6.00	Rating **	M	Issue No.	45 (cont)
LM End	6.00	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.788921 °	38.788921 °
				-121.721985 °	-121.721985 °
DWR ID	19397				

Photo 3 of 3 : UCIP_SP_2020_55745_82654.jpg



Siphon breaker in damaged 16-inch steel riser on LS shoulder

LM Start	6.06	Rating **	M	Issue No.	7
LM End	6.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.789529 °	38.792433 °
				-121.722814 °	-121.726463 °
DWR ID	DWR_NA0008_01_f_2018_7				
Comment Code					
EQ : Equipment					
Inspector Comment					
Equipment and fence are on the landside slope of the levee.					

Photo 1 of 2 : SP_2020_NA0008_256_7_20200228_00001.jpg



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

LM Start	6.06	Rating **	M	Issue No.	7 (cont)
LM End	6.34	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP_2020_NA0008_256_7_20200228_00002.jpg



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

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

Levee Inspection Report By Mile - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	03/25/2020 03/25/2020	Zach Jojola

LM Start	6.32	Rating **	M	Issue No.	46
LM End	6.32	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.792227 °	38.792227 °	
			-121.726287 °	-121.726287 °	
DWR ID	19389				
Comment Code					
Inspector Comment					
DS_ID:19389 FS_ID:55746 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 10/8/2019 Record updated from No Action Needed to Non-Urgent. Crossing not found. (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe partially through the levee, approximately 4 feet below the crown. [Additional Reference(s): USACE Sacramento O&M Manual 127, June 1953, (Station 323+00)]. FS Date: 10/8/2019 9:41:40 AM					

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**

Unit Cover Sheet

Spring 2020 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
Unit Maintenance Rating (Fall Only)			Winter (December - February)
Date of Inspection	3/25/2020 - 3/25/2020		
DWR Inspector	Zach Jojola		
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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	03/25/2020 03/25/2020	Zach Jojola

LM Start	0.03	Rating **	M	Issue No.	32
LM End	0.33	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.724535 °	38.727448 °	
			-121.665510 °	-121.669747 °	
DWR ID	DWR_NA0008_02_s_2020_32				
Comment Code					
DT : Ditch					
Inspector Comment					
Irrigation ditch at the landside toe.					

No Photos

LM Start	0.33	Rating **	M	Issue No.	20
LM End	0.33	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.727442 °	38.727442 °	
			-121.669741 °	-121.669741 °	
DWR ID	DWR_NA0008_02_f_2019_20				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree at the landside toe. The landowner should remove the limbs within the easement.					

Photo 1 of 1 : SP_2020_NA0008_257_20_20200228_00007.jpg



View of the fallen tree at the landside toe. Fall 2019.

LM Start	0.66	Rating **	A/W	Issue No.	19
LM End	0.66	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.729848 °	38.729848 °	
			-121.674897 °	-121.674897 °	
DWR ID	DWR_NA0008_02_s_2019_19				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
There is slow bank caving on the overbuilt waterside slope. Recommend monitoring.					

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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	03/25/2020 03/25/2020	Zach Jojola

LM Start	0.69	Rating **	A/W	Issue No.	18
LM End	0.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.730130 °	38.730130 °	
			-121.675391 °	-121.675391 °	
DWR ID	DWR_NA0008_02_s_2019_18				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
There is slow bank caving on the overbuilt waterside slope. Recommend monitoring.					

No Photos

LM Start	0.70	Rating **	M	Issue No.	31
LM End	0.79	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.730258 °	38.730999 °	
			-121.675590 °	-121.676829 °	
DWR ID	DWR_NA0008_02_s_2020_31				
Comment Code					
EQ : Equipment					
Inspector Comment					
Beehives on the waterside shoulder.					

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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	03/25/2020 03/25/2020	Zach Jojola

LM Start	0.81	Rating **	M	Issue No.	33 (cont)
LM End	0.81	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.731263 °	38.731263 °
				-121.677177 °	-121.677177 °
DWR ID	19369				

Photo 3 of 3 : UCIP_SP_2020_55754_82700.jpg



View of LS slope at crossing

LM Start	0.98	Rating **	M	Issue No.	30
LM End	1.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.733004 °	38.733989 °
				-121.679258 °	-121.680207 °
DWR ID	DWR_NA0008_02_s_2020_30				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.98	Rating **	M	Issue No.	29
LM End	1.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.733007 °	38.733989 °
				-121.679260 °	-121.680207 °
DWR ID	DWR_NA0008_02_s_2020_29				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	03/25/2020 03/25/2020	Zach Jojola

LM Start	0.99	Rating **	M	Issue No.	34 (cont)
LM End	0.99	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.733120 °	38.733120 °
				-121.679383 °	-121.679383 °
DWR ID	19370				

Photo 3 of 3 : UCIP_SP_2020_55757_82723.jpg



View of WS looking from levee crown

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					
A ditch is located within 10 feet from levee toe on LS.					

Photo 1 of 1 : SP_2020_NA0008_257_22_20200228_00008.jpg



View of a ditch near landside toe. Fall 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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	03/25/2020 03/25/2020	Zach Jojola

LM Start	1.90	Rating **	M	Issue No.	36
LM End	1.90	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		38.743775 °	38.743775 °	
			-121.689190 °	-121.689190 °	
DWR ID	19399				
Comment Code					
Inspector Comment					
DS_ID:19399 FS_ID:55761 EP_NO: 9320 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Record updated from No Action Needed to Non-Urgent. Pipe though levee has been replaced as part of the Knights Landing 2015 Levee Repair Project. A concrete box with slide gate was constructed on WS shoulder, a concrete pad with electrical wiring installed at LS toe, pipe inlet on LS is modified and revetted. New flap gate at WS end. Need to have CVFPB review ABO and determine current owner. Encroachment permit is missing. No details provided from Levee Improvement Project. (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: *REMOVED & REPLACED with DSID 25597* 24-inch steel drainage pipe through the levee, 21 feet below the crown. Slide gate on the waterside (WS) end. Open on the landside (LS) end. LS toe cobble revetted. Service pole on the LS slope. (24-inch pipe [HLM 1.9] authorized under Automatic Board Order (ABO) issued as Permit No. 9320, 1974 - Ralph W. Pollock). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 103+21.8)]. FS Date: 10/8/2019 2:13:30 PM					

Photo 1 of 3 : UCIP_SP_2020_55761_82744.jpg



View of levee crown at the crossing

LM Start	1.90	Rating **	M	Issue No.	36 (cont)
LM End	1.90	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2020_55761_82749.jpg



View of LS looking from levee crown

* 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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	03/25/2020 03/25/2020	Zach Jojola

LM Start	2.26	Rating **	M	Issue No.	37 (cont)
LM End	2.26	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.748282 °	38.748282 °	
			-121.692652 °	-121.692652 °	
DWR ID	19388				

Photo 2 of 2 : UCIP_SP_2020_55763_82752.jpg



Gas line marker

LM Start	2.28	Rating **	M	Issue No.	38
LM End	2.28	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.748505 °	38.748505 °	
			-121.692697 °	-121.692697 °	
DWR ID	19386				

Photo 1 of 2 : UCIP_SP_2020_55764_82753.jpg



South shoulder of Co Rd 16 with gas line marker installed

Comment Code					
Inspector Comment					
DS_ID:19386 FS_ID:55764 EP_NO: 13164 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 10/08/2019 Record remains Non-Urgent. No inspection records were available to determine status of line through the levee. (O.Yakimov - DWR UCIP) 09/16/2018 Crossing marker on levee Unit 02 is missing. Having a marker on County Road 16 shoulder is not enough to find exact crossing location on levee. Crossing has been downgraded to "Non-Urgent" due to reclassification of gas lines. (O.Yakimov - DWR UCIP)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. 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. (4-inch gas line authorized under Permit No. 13164, 1981 - Shell Oil Company). FS Date: 10/8/2019 2:37:40 PM					

* 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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	03/25/2020 03/25/2020	Zach Jojola

LM Start	2.28	Rating **	M	Issue No.	38 (cont)
LM End	2.28	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.748505 °	38.748505 °
				-121.692697 °	-121.692697 °
DWR ID	19386				

Photo 2 of 2 : UCIP_SP_2020_55764_82754.jpg



Gas line marker

LM Start	2.30	Rating **	M	Issue No.	28
LM End	2.30	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.748862 °	38.748862 °
				-121.692804 °	-121.692804 °
DWR ID	DWR_NA0008_02_s_2020_28				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Tire ruts on the crown.					

Photo 1 of 1 : SP_2020_NA0008_257_28_20200325_00046.jpg



View of tire ruts on the crown. Spring 2020.

* 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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	03/25/2020 03/25/2020	Zach Jojola

LM Start	2.72	Rating **	A/W	Issue No.	8
LM End	2.93	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 USACE Erosion Survey		38.754899 °	38.757925 °	
			-121.692653 °	-121.693048 °	
DWR ID	DWR_NA0008_02_f_2018_8				
Comment Code					
Inspector Comment					
DWR Inspector Comment: Opening in center channel berm causing erosion near waterside toe. Recommend monitoring.					
2017 Site ID: KLR 3.0 L Status: Eroding 2017 Field Notes: Access Issues - Could not observe Site History: 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.					

No Photos

LM Start	2.98	Rating **	M	Issue No.	9
LM End	3.11	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 USACE Erosion Survey		38.758587 °	38.760053 °	
			-121.693359 °	-121.694686 °	
DWR ID	DWR_NA0008_02_f_2018_9				
Comment Code					
Inspector Comment					
DWR Inspector Comment: Opening in center channel berm causing erosion near waterside toe.					
2017 Site ID: KLR 3.1 L Status: Eroding 2017 Field Notes: Access Issues - Could not observe Site History: 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.					

Photo 1 of 2 : SP_2020_NA0008_257_9_20200228_00003.jpg



View of the erosion on the waterside slope. Fall 2018.

* 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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	03/25/2020 03/25/2020	Zach Jojola

LM Start	2.98	Rating **	M	Issue No.	9 (cont)
LM End	3.11	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.758587 °	38.760053 °
				-121.693359 °	-121.694686 °
DWR ID	DWR_NA0008_02_f_2018_9				

Photo 2 of 2 : SP_2020_NA0008_257_9_20200228_00004.jpg



View of the opening within the center channel. Fall 2018.

LM Start	3.31	Rating **	A/W	Issue No.	14
LM End	3.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.762301 °	38.762301 °
				-121.697190 °	-121.697190 °
DWR ID	DWR_NA0008_02_f_2018_14				

Comment Code

E1 : Note and monitor erosion site.

Inspector Comment

The primary channel changes course throughout the water year and erodes the slope through an opening in the center barrier. The slope appears to be stable and erosion is not within the prism. The levee is further reinforced by the newly constructed berm on the land side. Recommend monitoring.

Photo 1 of 2 : SP_2020_NA0008_257_14_20200228_00005.jpg



View of erosion on the waterside slope. Fall 2018.

LM Start	3.31	Rating **	A/W	Issue No.	14 (cont)
LM End	3.31	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2020_NA0008_257_14_20200228_00006.jpg



View of the opening within the main channel, facing upstream. Fall 2018.

* 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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	03/25/2020 03/25/2020	Zach Jojola

LM Start	3.60	Rating **	A/W	Issue No.	10
LM End	3.73	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 USACE Erosion Survey		38.765522 °	38.767336 °	
			-121.700608 °	-121.701023 °	
DWR ID	DWR_NA0008_02_f_2018_10				
Comment Code					
Inspector Comment					
DWR Inspector Comment: Opening in center channel berm causing erosion near waterside toe. Recommend monitoring.					
2017 Site ID: KLR 3.7 L Status: Eroding 2017 Field Notes: Access Issues - Could not observe Site History: 2011 - The toe has eroded away and there are a few scallops from bank slumping.					

No Photos

LM Start	3.68	Rating **	M	Issue No.	39
LM End	3.68	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.766573 °	38.766573 °	
			-121.700885 °	-121.700885 °	
DWR ID	19373				
Comment Code					
Inspector Comment					
DS_ID:19373 FS_ID:55774 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 10/08/2019 Record updated from No Action Needed to Non-Urgent. Crossing not found, pipe appurtenances have been removed. Unauthorized encroachment recorded in Levee Log prior to 2011. Unable to locate a permit and confirm proper pipe abandonment. (O.Yakimov - DWR UCIP) 04/09/2013 14-inch pipe debris on the WS slope. (W.Wylie - DWR UCIP) FIELD_STRUCT_DESC: 18-inch reinforced concrete drainage pipe through the levee, 6.5 feet below the crown. No gates or valves. 5-foot by 5-foot concrete distribution box on the waterside (WS) slope (Russell). [Additional Reference(s): DWR Levee Log, 1966]. FS Date: 10/8/2019 3:37:43 PM					

Photo 1 of 3 : UCIP_SP_2020_55774_82795.jpg



Signs of soil disturbed on WS levee 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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	03/25/2020 03/25/2020	Zach Jojola

LM Start	3.68	Rating **	M	Issue No.	39 (cont)
LM End	3.68	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.766573 °	38.766573 °	
			-121.700885 °	-121.700885 °	
DWR ID	19373				

Photo 2 of 3 : UCIP_SP_2020_55774_82796.jpg



View of WS looking from levee crown

LM Start	3.93	Rating **	M	Issue No.	39 (cont)
LM End	3.68	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_55774_82797.jpg



View of LS slope looking towards levee

LM Start	3.93	Rating **	M	Issue No.	27
LM End	4.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.770212 °	38.777811 °	
			-121.701258 °	-121.705456 °	
DWR ID	DWR_NA0008_02_s_2020_27				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	03/25/2020 03/25/2020	Zach Jojola

LM Start	3.93	Rating **	A/W	Issue No.	40 (cont)
LM End	3.93	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.770308 °	38.770308 °
				-121.701236 °	-121.701236 °
DWR ID	25571				

Photo 3 of 3 : UCIP_SP_2020_55749_82672.jpg



View of LS looking from levee crown

LM Start	3.93	Rating **	A/W	Issue No.	41
LM End	3.93	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.770327 °	38.770327 °
				-121.701245 °	-121.701245 °
DWR ID	25572				

Photo 1 of 3 : UCIP_SP_2020_54351_82677.jpg



View of levee crown at the crossing

Comment Code					
Inspector Comment					
DS_ID:25572 FS_ID:54351 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/08/2019 No issues recorded during inspection (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 24-inch steel discharge pipe through the levee, 6.5-feet below the crown. Pump house on pile structure in drainage ditch on the landward side. Siphon breaker and positive closure device butterfly valve with handwheel operator on the pipe on the waterward side. Pipe replaces a section of pipe through the levee butt welded to the original pipe approximately 37-feet from levee centerline on both levee slopes. Service pole on pump house. (Permit No. 9317-1, applicant - RD730, issued 07/10/2014 gives authorization of emergency removal and replacement of the pipe in September 2012.) FS Date: 10/8/2019					

* 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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	03/25/2020 03/25/2020	Zach Jojola

LM Start	3.93	Rating **	A/W	Issue No.	41 (cont)
LM End	3.93	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.770327 °	38.770327 °
				-121.701245 °	-121.701245 °
DWR ID	25572				

Photo 2 of 3 : UCIP_SP_2020_54351_82678.jpg



Siphon breaker and positive closure device on WS shoulder

LM Start	3.93	Rating **	A/W	Issue No.	41 (cont)
LM End	3.93	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_54351_82679.jpg



View of LS looking from levee crown

* 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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	03/25/2020 03/25/2020	Zach Jojola

LM Start	3.93	Rating **	A/W	Issue No.	42
LM End	3.93	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		38.770317 °	38.770317 °	
			-121.701281 °	-121.701281 °	
DWR ID	19374				
Comment Code					
Inspector Comment					
DS_ID:19374 FS_ID:11293 EP_NO: 9317 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 01/14/2019 Pipe has been replaved with a 16-inch pipe under permit 9317-1; new DS-ID 25571. (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: *REMOVED* 1 of 2: 16-inch steel discharge pipe through the levee, 3 feet below the crown. Pump house on pile structure in drainage ditch on the landside (LS). Siphon breaker on the pipe on the waterside (WS). Service pole at the pump house. (16-inch pipe [HLM 3.97] authorized under Automatic Board Order (ABO) issued as Permit No. 9317, 1974 - Reclamation District No. 819). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 211+05) (15-inch pipe listed)]. FS Date: 4/9/2013					

Photo 1 of 3 : UCIP_SP_2020_11293_18675.jpg



Pump on LS toe.

LM Start	3.93	Rating **	A/W	Issue No.	42 (cont)
LM End	3.93	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2020_11293_18674.jpg



Pump and pipes on LS toe.

* 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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	03/25/2020 03/25/2020	Zach Jojola

LM Start	3.93	Rating **	A/W	Issue No.	42 (cont)
LM End	3.93	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.770317 °	38.770317 °
				-121.701281 °	-121.701281 °
DWR ID	19374				

Photo 3 of 3 : UCIP_SP_2020_11293_18673.jpg



16-inch pipe with siphon breaker on WS shoulder.

LM Start	3.94	Rating **	A/W	Issue No.	43
LM End	3.94	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.770335 °	38.770335 °
				-121.701286 °	-121.701286 °
DWR ID	19401				

Photo 1 of 3 : UCIP_SP_2020_11291_18669.jpg



Pumphouse at LS toe.

Comment Code					
Inspector Comment					
DS_ID:19401 FS_ID:11291 EP_NO: 9317 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 01/14/2019 Pipe was removed replaced with a new 24-inch pipe through the levee. Permit 9317-1 issues authorization of emergency removal and replacement of the pipe in September 2012. New DS-ID 25572. (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: *REMOVED* 2 of 2: 24-inch steel discharge pipe through the levee, 9 feet below the crown. Pump house on pile structure in drainage ditch on the landside (LS). Siphon breaker on the pipe on the waterside (WS) with a butterfly shutoff valve. Service pole at the pump house. (Permit No. 9317, 1974 - Reclamation District No. 819). Pipe replaced in 2012. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 210+99)]. FS Date: 4/9/2013					

* 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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	03/25/2020 03/25/2020	Zach Jojola

LM Start	4.30	Rating **	A/W	Issue No.	11
LM End	4.55	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 USACE Erosion Survey		38.775271 °	38.778115 °	
			-121.703685 °	-121.706195 °	
DWR ID	DWR_NA0008_02_f_2018_11				
Comment Code					
Inspector Comment					
<p>DWR Inspector Comment: Opening in center channel berm causing erosion near waterside toe. Recommend monitoring.</p> <p>2017 Site ID: KLR 4.7 L Status: Eroding 2017 Field Notes: Access Issues - Could not observe Site History: 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.</p>					

No Photos

LM Start	5.02	Rating **	M	Issue No.	44
LM End	5.02	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.783196 °	38.783196 °	
			-121.712043 °	-121.712043 °	
DWR ID	19390				
Comment Code					
Inspector Comment					
<p>DS_ID:19390 FS_ID:55776 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 10/08/2019 Crossing not found (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee, at an unknown depth. Pump on the waterside (WS), and concrete diversion box on the landside (LS). [Additional Reference(s): USACE Sacramento O&M Manual 127, June 1953, (Station 271+79)]. FS Date: 10/8/2019 3:46:08 PM</p>					

No Photos

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

Levee Inspection Report By Mile - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	03/25/2020 03/25/2020	Zach Jojola

LM Start	5.36	Rating **	A/W	Issue No.	12
LM End	5.93	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.786566 °	38.792395 °
				-121.716724 °	-121.724091 °
DWR ID	DWR_NA0008_02_f_2018_12				
Comment Code					
Inspector Comment					
DWR Inspector Comment: Opening in center channel berm causing erosion near waterside toe. Recommend monitoring.					
2017 Site ID: KLR 5.8 L Status: Eroding 2017 Field Notes: Hummocky levee, with multiple slump failures and tree popouts. Site History: 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.					

No Photos

LM Start	5.55	Rating **	U	Issue No.	45
LM End	5.55	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.788662 °	38.788662 °
				-121.718997 °	-121.718997 °
DWR ID	19375				
Comment Code					
Inspector Comment					
DS_ID:19375 FS_ID:55777 EP_NO: 3671 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/08/2019 Record has been updated from Non-Urgent to Urgent, heavily corroder pipe at outlet was noted in 2013. Crossing looks abandoned. (O.Yakimov - DWR UCIP)04/09/2013 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. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 20-inch coated steel irrigation pipe through the levee, 5.5 feet below the crown. Siphon breaker in a steel pipe riser on the landside (LS) slope. Metal cutoff wall. Service pole on the waterside (WS) slope. (Replaced 20-inch pipe at same location in 1961 under Permit No. 3671, 1961 - Mary Anna Richardson). [Additional Reference(s): DWR Levee Log, 1990]. FS Date: 10/8/2019					

Photo 1 of 3 : UCIP_SP_2020_55777_82798.jpg



View of levee crown at the crossing

* 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 - Spring 2020

Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	03/25/2020 03/25/2020	Zach Jojola

LM Start	5.76	Rating **	M	Issue No.	46 (cont)
LM End	5.76	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.790834 °	38.790834 °
				-121.721761 °	-121.721761 °
DWR ID	19376				

Photo 3 of 3 : UCIP_SP_2020_55779_82814.jpg



Abandoned pump on WS slope

LM Start	5.94	Rating **	C	Issue No.	16
LM End	5.94	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.792702 °	38.792702 °
				-121.724089 °	-121.724089 °
DWR ID	DWR_NA0008_02_f_2019_16				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning pile on the waterside slope.					

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					
A fence blocks access to NW part of the levee. Strawberries are being grown on the crown and landside slope. Beehives are on the crown.					

Photo 1 of 2 : SP_2020_NA0008_257_1_20200228_00001.jpg



View of the fence on the crown. Fall 2017.

* 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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