

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, 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		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		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		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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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 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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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	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.

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

* 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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Unit No. 01 Knights Landing Ridge Cut	Right	6.36	03/25/2020 03/25/2020	Zach Jojola

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

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 buried 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 buried 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

* 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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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.	39 (cont)
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 3 of 3 : UCIP_SP_2020_55708_82486.jpg



Inlet of 48 x 48 inch concrete culvert. View from LS

LM Start	2.67	Rating **	M	Issue No.	40
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 1 of 3 : UCIP_SP_2020_55711_82498.jpg



View of LS looking from levee crown

Comment Code					
Inspector Comment					
DS_ID:19365 FS_ID:55711 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: 1 of 2: 18-inch steel drainage pipe through the levee, 6.4 feet below the crown. Siphon breaker on the waterside (WS) slope. Pump house mounted on concrete box in irrigation ditch at the landside (LS) toe. (one 18-inch and one 24-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 12:58:01 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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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 2 of 3 : UCIP_SP_2020_55711_82499.jpg



View of pipe on WS slope

LM Start	2.67	Rating **	M	Issue No.	40 (cont)
LM End	2.67	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2020_55711_82500.jpg



Concrete sump at pumping house

* 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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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.	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				
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					

Photo 1 of 3 : UCIP_SP_2020_55712_82512.jpg



View of levee crown at the crossing

LM Start	2.67	Rating **	M	Issue No.	41 (cont)
LM End	2.67	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2020_55712_82514.jpg



Pumphouse and pipe on LS toe

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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.	41 (cont)
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 3 of 3 : UCIP_SP_2020_55712_82515.jpg



View of pipe on WS slope

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

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.

* 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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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 (cont)
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				

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.

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.

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

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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 (cont)
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				

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

LM Start	4.13	Rating **	M	Issue No.	32
LM End	4.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.767424 °	38.767424 °
				-121.702889 °	-121.702889 °
DWR ID	DWR_NA0008_01_s_2020_32				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Remove branch over waterside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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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	0.66	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

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	0.98	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

* 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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Unit No. 02 Knights Landing Ridge Cut	Left	6.03	03/25/2020 03/25/2020	Zach Jojola

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

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 through 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

* 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**

Maintenance Issue Types Only, 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 (cont)
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				

Photo 2 of 3 : UCIP_SP_2020_55761_82749.jpg



View of LS looking from levee crown

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

Photo 3 of 3 : UCIP_SP_2020_55761_82746.jpg



Concrete pad with electrical wiring at LS levee toe

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**

Maintenance Issue Types Only, 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				

Photo 1 of 2 : SP_2020_NA0008_257_14_20200228_00005.jpg



View of erosion on the waterside slope. Fall 2018.

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.

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**

Maintenance Issue Types Only, 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	3.93	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 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**

Maintenance Issue Types Only, 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**

Maintenance Issue Types Only, 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**

Maintenance Issue Types Only, 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**

Maintenance Issue Types Only, 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**

Maintenance Issue Types Only, 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					
DWR Inspector Comment: Opening in center channel berm causing erosion near waterside toe. Recommend monitoring.					
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.					

No Photos

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

* 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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