

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2021

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	09/07/2021 09/07/2021	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			°	°
				°	°
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			°	°
				°	°
DWR ID	DWR_NA0008_01_s_2013_8				
Comment Code					
Inspector Comment					
District maintains a stockpile of flood fight response material.					

No Photos

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_NA0008_01_s_2020_9				
Comment Code					
Inspector Comment					
District has written response plan and regular flood fight training.					

No Photos

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	09/07/2021 09/07/2021	Zach Jojola

LM Start	0.25	Rating **	M	Issue No.	32
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				

**Comment Code**

**Inspector Comment**

DS\_ID:19360  
FS\_ID:55381  
EP\_NO: 9302  
Repair Type: Non-Urgent  
EVAL Issue: Maintenance Compliance Issue  
Crossing Status: Found  
UCIP Comments: 10/8/2019 Record updated from No Action Needed to Non-Urgent. Concrete distribution box on LS toe has been removed. Slide gate with its metal stand debris should be removed from the channel. Pipe has been grouted in 2015 under Permit 18987. (O.Yakimov - DWR UCIP) 12/07/2018 Need updated photos to show proper pipe abandonment. Update Part VI, 1. Pipe Section to remove part c and e. If crossing was abandoned properly crossing will need to be removed from the LMA responsibility list. (O. Magana - DWR UCIP)05/16/2016 Pipe has been grouted in place under permit 18987, 2015. (T. Hatch - DWR UCIP)04/05/2013 Pipe completely rusted through on LS slope of levee at toe/headwall of concrete distribution box. Pipe needs replacement or proper abandonment. Pipe not visible at outlet. (W. Wylie - DWR UCIP)  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 36-inch corrugated metal drainage pipe through the levee, 27 feet below the crown. Slide gate on the waterside (WS) end. 12-foot by 6-foot concrete box on the landside (LS) end. (36-inch pipe [HLM 1.62] authorized under Automatic Board Order (ABO) issued as Permit No. 9302, 1974 - Barbara Lowe Elliott; 36-inch pipe abandoned by removing ends and pumping pipe full of concrete under Permit No. 18987, 2016 - Knaggs Ranch, LLC, care of John Brennan). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 127, June 1953, (Station 0+30)].  
FS Date: 10/8/2019 2:41:37 PM

Photo 1 of 3 : UCIP\_FA\_2021\_55381\_81599.jpg



View of WS looking from crown

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Knights Landing Ridge Cut	Right	6.36	09/07/2021 09/07/2021	Zach Jojola

LM Start	<b>0.25</b>	Rating **	M	Issue No.	<b>32 (cont)</b>
LM End	<b>0.25</b>	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\_FA\_2021\_55381\_81600.jpg



Concrete distribution box on LS toe

LM Start	<b>0.25</b>	Rating **	M	Issue No.	<b>32 (cont)</b>
LM End	<b>0.25</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_FA\_2021\_55381\_81601.jpg



Slide gate on metal stand on WS toe needs removal

LM Start	2.23	Rating **	C	Issue No.	24
LM End	2.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.742929 °	38.742929 °
				-121.690951 °	-121.690951 °
DWR ID	DWR_NA0008_01_s_2021_24				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

No Photos

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	09/07/2021 09/07/2021	Zach Jojola

LM Start	2.58	Rating **	M	Issue No.	37	
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 EVAL Issue: Maintenance Compliance Issue 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						

LM Start	<b>2.58</b>	Rating **	M	Issue No.	<b>37 (cont)</b>
LM End	<b>2.58</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2021\_55698\_82444.jpg



View of LS looking from levee crown

Photo 2 of 3 : UCIP\_FA\_2021\_55698\_82445.jpg



Pumping platform on pile structure

* 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	09/07/2021 09/07/2021	Zach Jojola

LM Start	2.58	Rating **	M	Issue No.	37 (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\_FA\_2021\_55698\_82446.jpg



Not found siphon breaker on LS slope

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			38.747204 °	38.747204 °
				-121.694440 °	-121.694440 °
DWR ID	19391				

**Comment Code**

**Inspector Comment**

DS\_ID:19391  
 FS\_ID:55708  
 EP\_NO: 9307  
 Repair Type: Non-Urgent  
 EVAL Issue: Maintenance Compliance Issue  
 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

Photo 1 of 3 : UCIP\_FA\_2021\_55708\_82487.jpg



View of LS looking from levee crown

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

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Levee Inspections**

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**Knights Landing Ridge Drainage District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	09/07/2021 09/07/2021	Zach Jojola

LM Start	<b>2.58</b>	Rating **	M	Issue No.	<b>38 (cont)</b>
LM End	<b>2.58</b>	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 2 of 3 : UCIP\_FA\_2021\_55708\_82488.jpg



View of WS looking from levee crown

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

Photo 3 of 3 : UCIP\_FA\_2021\_55708\_82486.jpg



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

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> 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	09/07/2021 09/07/2021	Zach Jojola

LM Start	2.67	Rating **	M	Issue No.	39 (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\_FA\_2021\_55711\_82500.jpg



Concrete sump at pumping house

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			38.748404 °	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  
EVAL Issue: Unauthorized Encroachment, installed decades prior  
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\_FA\_2021\_55712\_82512.jpg



View of levee crown at the crossing

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	09/07/2021 09/07/2021	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			38.748404 °	38.748404 °
				-121.694818 °	-121.694818 °
DWR ID	19392				

Photo 2 of 3 : UCIP\_FA\_2021\_55712\_82514.jpg



Pumphouse and pipe on LS toe

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

Photo 3 of 3 : UCIP\_FA\_2021\_55712\_82515.jpg



View of pipe on WS slope

LM Start	2.79	Rating **	M	Issue No.	27
LM End	2.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.750134 °	38.750134 °
				-121.694779 °	-121.694779 °
DWR ID	DWR_NA0008_01_f_2021_27				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove fallen tree on the waterside slope.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	N/A : Not Applicable	** 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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**Knights Landing Ridge Drainage District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Knights Landing Ridge Cut	Right	6.36	09/07/2021 09/07/2021	Zach Jojola

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	2018 USACE Erosion Survey			38.758432 °	38.759332 °
				-121.695158 °	-121.696063 °
DWR ID					
Comment Code					
Inspector Comment					
2018 Site ID: KLR 3.5 R					
Status: Eroding					
2018 Field Notes: Last observed in 2011. Access issues prevented inspection in 2017.					
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 1 : FA\_2021\_NA0008\_256\_20\_20210907\_00003.jpg



View of erosion on the waterside slope. Spring 2018.

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 : FA\_2021\_NA0008\_256\_30\_20210907\_00008.jpg



View of hole at the waterside toe. Spring 2019.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> 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	09/07/2021 09/07/2021	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 : FA\_2021\_NA0008\_256\_31\_20210907\_00009.jpg



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

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

Photo 2 of 2 : FA\_2021\_NA0008\_256\_31\_20210907\_00010.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	2018 USACE Erosion Survey			38.764037 °	38.764905 °
				-121.701434 °	-121.702074 °
DWR ID					
Comment Code					
Inspector Comment					
2018 Site ID: KLR 3.9 R					
Status: Eroding					
2018 Field Notes: Last observed in 2011. Access issues prevented inspection in 2017.					
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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Unit No. 01 Knights Landing Ridge Cut	Right	6.36	09/07/2021 09/07/2021	Zach Jojoia

LM Start	5.90	Rating **	C	Issue No.	25
LM End	5.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.787936 °	38.787936 °
				-121.720751 °	-121.720751 °
DWR ID	DWR_NA0008_01_s_2021_25				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

No Photos

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	09/07/2021 09/07/2021	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 EVAL Issue: Unauthorized Encroachment, installed decades prior 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						

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

Photo 1 of 3 : UCIP\_FA\_2021\_55761\_82744.jpg



View of levee crown at the crossing

Photo 2 of 3 : UCIP\_FA\_2021\_55761\_82749.jpg



View of LS looking from levee crown

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> 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 - Fall 2021**

**Knights Landing Ridge Drainage District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	09/07/2021 09/07/2021	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 3 of 3 : UCIP\_FA\_2021\_55761\_82746.jpg



Concrete pad with electrical wiring at LS levee toe

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	2018 USACE Erosion Survey			38.754899 °	38.757925 °
				-121.692653 °	-121.693048 °
DWR ID					

**Comment Code**

**Inspector Comment**

2018 Site ID: KLR 3.0 L  
 Status: Eroding  
 2018 Field Notes: Last observed in 2011. Access issues prevented inspection in 2017.  
 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

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Fall 2021**

**Knights Landing Ridge Drainage District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	09/07/2021 09/07/2021	Zach Jojola

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	2018 USACE Erosion Survey			38.758587 °	38.760053 °	
				-121.693359 °	-121.694686 °	
DWR ID						
Comment Code						
Inspector Comment						
2018 Site ID: KLR 3.1 L						
Status: Eroding						
2018 Field Notes: Last observed in 2011. Access issues prevented inspection in 2017.						
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.						

No Photos

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 landside. Recommend monitoring.					

Photo 1 of 1 : FA\_2021\_NA0008\_257\_14\_20210907\_00043.jpg



View of erosion at waterside toe. Fall 2021.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Fall 2021**

**Knights Landing Ridge Drainage District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	09/07/2021 09/07/2021	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	2018 USACE Erosion Survey			38.765522 °	38.767336 °
				-121.700608 °	-121.701023 °
DWR ID					
Comment Code					
Inspector Comment					
2018 Site ID: KLR 3.7 L					
Status: Eroding					
2018 Field Notes: Last observed in 2011. Access issues prevented inspection in 2017.					
Site History: 2011 - The toe has eroded away and there are a few scallops from bank slumping.					

No Photos

LM Start	3.93	Rating **	A/W	Issue No.	40	
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					
Comment Code						
Inspector Comment						
DS_ID:25571 FS_ID:55749 EP_NO: N/A Repair Type: No Action Needed EVAL Issue: Compliant Crossing Status: Found UCIP Comments: 10/08/2019 No issues recorded during inspection (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 16-inch steel discharge pipe through the levee, 3-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 35-feet from levee centerline on both levee slopes. Service pole on pump house (16-inch pipe authorized under Permit No. 9317-1, 2014, RD730, issued 07/10/2014, previous 16-inch pipe removed, see DSID 19374) FS Date: 10/8/2019 12:32:09 PM						

Photo 1 of 3 : UCIP\_FA\_2021\_55749\_82670.jpg



View of levee crown at the crossing

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> 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 - Fall 2021**

**Knights Landing Ridge Drainage District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	09/07/2021 09/07/2021	Zach Jojola

LM Start	<b>3.93</b>	Rating **	A/W	Issue No.	<b>40 (cont)</b>
LM End	<b>3.93</b>	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 2 of 3 : UCIP\_FA\_2021\_55749\_82671.jpg



Siphon breaker and positive closure device on WS shoulder

LM Start	<b>3.93</b>	Rating **	A/W	Issue No.	<b>40 (cont)</b>
LM End	<b>3.93</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_FA\_2021\_55749\_82672.jpg



View of LS looking from levee crown

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> 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 - Fall 2021

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	09/07/2021 09/07/2021	Zach Jojola

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				
Comment Code					
Inspector Comment					
DS_ID:25572 FS_ID:54351 EP_NO: N/A Repair Type: No Action Needed EVAL Issue: Compliant 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					

Photo 1 of 3 : UCIP\_FA\_2021\_54351\_82677.jpg



View of levee crown at the crossing

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

Photo 2 of 3 : UCIP\_FA\_2021\_54351\_82678.jpg



Siphon breaker and positive closure device on WS shoulder

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> 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 - Fall 2021**

**Knights Landing Ridge Drainage District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	09/07/2021 09/07/2021	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 3 of 3 : UCIP\_FA\_2021\_54351\_82679.jpg



View of LS looking from levee crown

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  
 EVAL Issue:  
 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\_FA\_2021\_11293\_18675.jpg



Pump on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> 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 - Fall 2021

### Knights Landing Ridge Drainage District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	09/07/2021 09/07/2021	Zach Jojola

LM Start	<b>3.93</b>	Rating **	A/W	Issue No.	<b>42 (cont)</b>
LM End	<b>3.93</b>	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 2 of 3 : UCIP\_FA\_2021\_11293\_18674.jpg



Pump and pipes on LS toe.

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

Photo 3 of 3 : UCIP\_FA\_2021\_11293\_18673.jpg



16-inch pipe with siphon breaker on WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> 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 - Fall 2021**

**Knights Landing Ridge Drainage District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	09/07/2021 09/07/2021	Zach Jojola

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					
Comment Code						
Inspector Comment						
DS_ID:19401 FS_ID:11291 EP_NO: 9317 Repair Type: No Action Needed EVAL Issue: 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						

Photo 1 of 3 : UCIP\_FA\_2021\_11291\_18669.jpg



Pumphouse at LS toe.

LM Start	<b>3.94</b>	Rating **	A/W	Issue No.	<b>43 (cont)</b>
LM End	<b>3.94</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2021\_11291\_18668.jpg



Pipe in grass on WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> 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 - Fall 2021**

**Knights Landing Ridge Drainage District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	09/07/2021 09/07/2021	Zach Jojola

LM Start	3.94	Rating **	A/W	Issue No.	43 (cont)
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 3 of 3 : UCIP\_FA\_2021\_11291\_18667.jpg



Siphon breaker and butterfly valve on WS shoulder.

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	2018 USACE Erosion Survey			38.775271 °	38.778115 °
				-121.703685 °	-121.706195 °
DWR ID					

No Photos

**Comment Code**

**Inspector Comment**

2018 Site ID: KLR 4.7 L  
 Status: Eroding  
 2018 Field Notes: Last observed in 2011. Access issues prevented inspection in 2017.  
 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.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> 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 - Fall 2021**

**Knights Landing Ridge Drainage District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Knights Landing Ridge Cut	Left	6.03	09/07/2021 09/07/2021	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	2018 USACE Erosion Survey			38.786566 °	38.792395 °
				-121.716724 °	-121.724091 °
DWR ID					
Comment Code					
Inspector Comment					
2018 Site ID: KLR 5.8 L					
Status: Eroding					
2018 Field Notes: Last observed in 2017.					
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. 2017 - Hummocky levee, with multiple slump failures and tree popouts.					

No Photos

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