

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	2.73	09/17/2019 09/17/2019	Zach Jojola

LM Start		Rating **	A	Issue No.	5
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_ST0011_01_s_2013_5				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard has the levee O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	6
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_ST0011_01_s_2013_6				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard maintains a stockpile of flood response materials.					

No Photos

LM Start		Rating **	A	Issue No.	7
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_ST0011_01_s_2013_7				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard maintains a written flood response plan and regular flood response 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 West Levee	Right	2.73	09/17/2019 09/17/2019	Zach Jojola

LM Start	1.80	Rating **	A	Issue No.	3
LM End	1.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.735348°	38.735348°	
			-121.660340°	-121.660340°	
DWR ID	DWR_ST0011_01_f_2019_3				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The LMA maintains the vegetation at a high level.					

Photo 1 of 1 : FA_2019_ST0011_291_3_20190919_00016.jpg



View of the maintained waterside slope. Fall 2019.

LM Start	2.63	Rating **	A/W	Issue No.	14
LM End	2.63	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP LMA Responsibility		38.724824°	38.724824°	
			-121.663702°	-121.663702°	
DWR ID	17742				
Comment Code					
Inspector Comment					
DS_ID:17742 FS_ID:53232 EP_NO: 10284 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: Screw gates where removed and pipe was abanded by farmer, How pipe was abanded is unknown. Pipe is Grouted FIELD_STRUCT_DESC: 1 of 2: 42-inch corrugated metal gravity drainage pipe through the levee, 23.6 feet below the crown. Slide gate on the waterside (WS) slope. Concrete distribution box at the landside (LS) toe. (42-inch pipe [HLM 2.63] authorized under Automatic Board Order (ABO) issued as Permit No. 10284, 1974 - La Borde and Hoover). [Additional Reference(s): DWR Levee Log, 2004. USACE Sacramento O&M Manual 127, June 1953, (Station 133+82)]. FS Date: 11/16/2018 2:17:55 PM					

Photo 1 of 3 : UCIP_FA_2019_53232_60304.jpg



Waterside view: overview (pipe not found)

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Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 West Levee	Right	1.52	09/17/2019 09/17/2019	Zach Jojola

LM Start	0.16	Rating **	A/W	Issue No.	2
LM End	0.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.716822°	38.716822°	
			-121.665095°	-121.665095°	
DWR ID	DWR_ST0011_02_f_2019_2				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There are two rodent holes on the landside slope. Recommend monitoring for activity.					

No Photos

LM Start	1.41	Rating **	A	Issue No.	1
LM End	1.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.700172°	38.700172°	
			-121.673928°	-121.673928°	
DWR ID	DWR_ST0011_02_f_2019_1				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The LMA maintains the vegetation at a high level.					

Photo 1 of 1 : FA_2019_ST0011_292_1_20190919_00006.jpg



View of the maintained landside slope. Fall 2019.

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Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 West Levee	Right	3.61	10/16/2019 10/16/2019	Zach Jojola

LM Start	0.54	Rating **	M	Issue No.	15
LM End	0.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.566529°	38.566529°
				-121.638869°	-121.638869°
DWR ID	DWR_ST0011_04_f_2019_15				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Appears to be a 50-foot crack on the landside shoulder with minor settlement.					

Photo 1 of 2 : FA_2019_ST0011_294_15_20191126_00016.jpg



View of the crack on the landside shoulder, facing downstream. Fall 2019.

LM Start	0.54	Rating **	M	Issue No.	15 (cont)
LM End	0.54	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2019_ST0011_294_15_20191126_00017.jpg



View of the crack on the landside shoulder, facing upstream. Fall 2019.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 West Levee	Right	3.61	10/16/2019 10/16/2019	Zach Jojola

LM Start	0.60	Rating **	M	Issue No.	24 (cont)
LM End	0.60	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			38.565704 °	38.565704 °
				-121.638650 °	-121.638650 °
DWR ID	528				
Comment Code					
Inspector Comment					
DS_ID:528 FS_ID:55949 EP_NO: 10304 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/07/2019 No issues recorded during inspection. (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 30-inch CIPP-lined corrugated metal gravity drainage pipe through the levee, 22 feet below the crown. Flap gate on the waterside (WS) end. (30-inch pipe [HLM 0.59] authorized under Automatic Board Order (ABO) issued as Permit No. 10304, 1974 - Southern Pacific Transportation Company). [Additional Reference(s): DWR Levee Log, 2004. USACE Sacramento O&M Manual 120, June 1952, (Station 446+08)]. FS Date: 11/7/2019 8:24:29 AM					

Photo 3 of 3 : UCIP_FA_2019_55949_83299.jpg



Pipe and flap gate at WS levee toe

LM Start	0.77	Rating **	C	Issue No.	1
LM End	0.78	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.563289 °	38.563157 °
				-121.638367 °	-121.638344 °
DWR ID	ST11-U4-02				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:205 Site Designation:ST11-U4-02 Repair Type: Erosion Rating:Serious Field Date:6/5/2017 Notes: LS levee slope failure -starts at mid slope, about 5.6' vertical drop, and mass extends 9' beyond levee toe, 26' wide asphalt road at toe, damaged erosion control fabrics noted. Site repaired as of the date of this inspection.					

No Photos

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Unit No. 04 West Levee	Right	3.61	10/16/2019 10/16/2019	Zach Jojola

LM Start	2.10	Rating **	M	Issue No.	31 (cont)
LM End	2.10	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			38.545646°	38.545646°
				-121.631172°	-121.631172°
DWR ID	17736				
Comment Code					
Inspector Comment					
DS_ID:17736 FS_ID:56030 EP_NO: 10306 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/07/2019 Permit authorizing crossing modification is not available. (O.Yakimov - DWR UCIP)04/28/2015 Farmer cleans this screw gate every year FIELD_STRUCT_DESC: 48-inch corrugated metal gravity drainage pipe through the levee, 21.5 feet below the crown. 42-inch steel pipe inside the 48-inch pipe. Slide gate on the waterside (WS) with two cutoff walls, one headwall, and one saddle and apron. (48-inch pipe [HLM 2.12] authorized under Automatic Board Order (ABO) issued as Permit No. 10306, 1974 - Wells Fargo Bank, Trustees for Cowell Foundation). [Additional Reference(s): USACE Sacramento O&M Manual 119, December 1952, (Station 80+00), dwg no. 50-04-2280, page 1 of 2]. FS Date: 11/7/2019					

Photo 3 of 3 : UCIP_FA_2019_56030_83251.jpg



Slide gate and pipe outlet on waterside

LM Start	3.61	Rating **	M	Issue No.	13
LM End	3.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.523683°	38.523683°
				-121.631463°	-121.631463°
DWR ID	DWR_ST0011_04_f_2018_13				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
There is erosion on the landside toe because of an irrigation canal. Sac Yard is aware of the issue and intends to fix it.					

Photo 1 of 2 : FA_2019_ST0011_294_13_20191108_00015.jpg



View of erosion on the landside slope. Fall 2019.

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