

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2022**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	09/14/2022 09/15/2022	Makar Sokol

LM Start		Rating **	A	Issue No.	<b>10</b>
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_ST0010_01_s_2013_10				
Comment Code					
OM : O&M Manuals					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	<b>11</b>
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_ST0010_01_s_2013_11				
Comment Code					
ES : Emergency Supplies & Equipment					
Inspector Comment					
The LMA has flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	<b>12</b>
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_ST0010_01_s_2013_12				
Comment Code					
FP : Flood Preparedness & Training					
Inspector Comment					
The LMA completed flood fight training in 2021.					

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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Unit No. 01 Wadsworth Canal	Left	4.63	09/14/2022 09/15/2022	Makar Sokol

LM Start	1.27	Rating **	M	Issue No.	21
LM End	1.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Vehicle Traffic			39.128324 °	39.128324 °
				-121.754619 °	-121.754619 °
DWR ID	DWR_ST0010_01_s_2021_21				
Comment Code					
E6 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA\_2022\_ST0010\_42\_21\_20220906\_00004.jpg



View of the waterside slope damaged by vehicle traffic. Spring 2021.

LM Start	1.74	Rating **	M	Issue No.	6
LM End	2.39	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2018 USACE Erosion Survey			39.133887 °	39.141757 °
				-121.749526 °	-121.742939 °
DWR ID	DWR_ST0010_01_s_2022_6				
Comment Code					
Inspector Comment					
2018 Site ID: WAC 2.1 L					
Status: Eroding					
2018 Field Notes: Last observed in 2017.					
Site History: 2011 - Whole bank is starting to unravel, with failure from poor soils. 2017 - Minor new erosion observed.					

No Photos

LM Start	2.43	Rating **	M	Issue No.	23
LM End	2.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.142127 °	39.142127 °
				-121.742346 °	-121.742346 °
DWR ID	DWR_ST0010_01_f_2022_23				
Comment Code					
S1 : Repair slope instability.					
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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Unit No. 01 Wadsworth Canal	Left	4.63	09/14/2022 09/15/2022	Makar Sokol

LM Start	2.43	Rating **	M	Issue No.	7
LM End	3.30	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2018 USACE Erosion Survey			39.142235 °	39.153095 °
				-121.742609 °	-121.734390 °
DWR ID	DWR_ST0010_01_s _ 2022_7				
Comment Code					
Inspector Comment					
2018 Site ID: WAC 2.4 L					
Status: Eroding					
2018 Field Notes: Last observed in 2017.					
Site History: 2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem. 2017 - Significant new erosion lower bank.					

No Photos

LM Start	3.32	Rating **	M	Issue No.	16
LM End	4.60	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2018 USACE Erosion Survey			39.153296 °	39.170973 °
				-121.734304 °	-121.726852 °
DWR ID	DWR_ST0010_01_s _ 2022_16				
Comment Code					
Inspector Comment					
2018 Site ID: WAC 4.4 L					
Status: Eroding					
2018 Field Notes: Last observed in 2017.					
Site History: Significant lower bank erosion and overall slumping.					

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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	09/14/2022 09/15/2022	Makar Sokol

LM Start	4.32	Rating **	M	Issue No.	28
LM End	4.32	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.167098 °	39.167098 °
				-121.728341 °	-121.728341 °
DWR ID	17058				
Comment Code					
Inspector Comment					
DS_ID:17058 FS_ID:60116 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: Crossing Status: Not Found UCIP Comments: 02/07/2019 Record has been updated from No Action Needed to Non-Urgent, unable to confirm status of pipe through the levee. Unable to locate pipe or appurtenances through this section of the levee. The DWR DMP geophysical investigation report indicates no signal received of suggestive target. Record will remain in UCIP's inspection records until future Levee Improvement Project can confirm no crossing was found through the levee. Also there is no permit identified for the authorization of this pipe. (O. Magana - DWR UCIP)04/10/2017 Unable to locate. (A. Freitag - DWR Sutter Yard)10/12/2016 Unable to locate. (A. Freitag - DWR Sutter Yard)04/19/2016 Unable to locate. (A. Freitag - DWR Sutter Yard)05/12/2015 Unable to locate. (A. Freitag - DWR Sutter Yard)11/18/2014 Unable to locate. (A. Freitag - DWR Sutter Yard)05/13/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)10/29/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)05/16/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)10/09/2012 unable to locate. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 12-inch corrugated metal drainage pipe through the levee, 8.7 feet below the crown. Pipe is open at both the waterside (WS) and landside (LS) ends. [Additional Reference(s): DWR Levee Log, 2005 (HLM 4.38, listed as 12-inch CMP). USACE Sacramento O&M Manual, Unit 135, May 1953, (Station 228+00), listed as 12-inch CMP, USACE Drawing No. 50-04-1949, Drawing No. 2, Sheet 3, March 1952, page 2 of 3, 12-inch CMP referenced at 228+25]. FS Date: 2/7/2019 12:13:00 PM					

Photo 1 of 3 : UCIP\_FA\_2022\_60116\_78707.jpg



WS view: overview of WS, no signs of pipe.

<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 Wadsworth Canal	Left	4.63	09/14/2022 09/15/2022	Makar Sokol

LM Start	4.32	Rating **	M	Issue No.	28 (cont)
LM End	4.32	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.167098 °	39.167098 °
				-121.728341 °	-121.728341 °
DWR ID	17058				

Photo 2 of 3 : UCIP\_FA\_2022\_60116\_78708.jpg



Overview of levee crown where crossing should be.

LM Start	<b>4.32</b>	Rating **	M	Issue No.	<b>28 (cont)</b>
LM End	<b>4.32</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_FA\_2022\_60116\_78709.jpg



LS view: overview of LS, no signs of pipe.

<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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**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	09/14/2022 09/15/2022	Makar Sokol

LM Start	0.35	Rating **	M	Issue No.	24
LM End	0.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.118178 °	39.118178 °
				-121.765500 °	-121.765500 °
DWR ID	DWR_ST0010_02_s_2022_24				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion is present at the toe of the levee. Patrol road is cutting into the levee prism.					

Photo 1 of 1 : FA\_2022\_ST0010\_43\_24\_20220906\_00006.jpg



View of the erosion at the waterside toe/patrol road. Spring 2022.

LM Start	0.79	Rating **	C	Issue No.	23
LM End	0.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.123219 °	39.123219 °
				-121.760650 °	-121.760650 °
DWR ID	DWR_ST0010_02_s_2022_23				
Comment Code					
T2 : Tree or limb.					
Inspector Comment					

No Photos

LM Start	1.15	Rating **	M	Issue No.	27
LM End	1.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.127457 °	39.127457 °
				-121.756527 °	-121.756527 °
DWR ID	DWR_ST0010_02_f_2022_27				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA\_2022\_ST0010\_43\_27\_20220919\_00046.jpg



View of animal burrows along the waterside slope. Fall 2022.

<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	<b>N : Not Inspected/Rated</b> 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. 02 Wadsworth Canal	Right	4.60	09/14/2022 09/15/2022	Makar Sokol

LM Start	1.44	Rating **	M	Issue No.	25
LM End	1.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.130768 °	39.130768 °
				-121.753336 °	-121.753336 °
DWR ID	DWR_ST0010_02_s_2022_25				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

No Photos

LM Start	1.73	Rating **	A/W	Issue No.	8
LM End	2.37	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2018 USACE Erosion Survey			39.134064 °	39.141814 °
				-121.749781 °	-121.743260 °
DWR ID	DWR_ST0010_02_s_2022_8				
Comment Code					
Inspector Comment					
2018 Site ID: WAC 2.1 R					
Status: Eroding					
2018 Field Notes: Last observed in 2017.					
Site History: 2011 - Whole bank is starting to unravel, with failure from poor soils. 2017 - Minor new erosion observed.					

No Photos

LM Start	1.75	Rating **	M	Issue No.	20
LM End	1.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Vehicle Traffic			39.134378 °	39.134378 °
				-121.749803 °	-121.749803 °
DWR ID	DWR_ST0010_02_f_2016_20				
Comment Code					
E6 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Ramp is causing depression in the levee slope.					

Photo 1 of 1 : FA\_2022\_ST0010\_43\_20\_20220919\_00048.jpg



View of the slope erosion along the waterside slope. Fall 2022.

<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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**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	09/14/2022 09/15/2022	Makar Sokol

LM Start	1.76	Rating **	A/W	Issue No.	11
LM End	1.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.134490 °	39.134490 °
				-121.749716 °	-121.749716 °
DWR ID	DWR_ST0010_02_f_2012_11				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA\_2022\_ST0010\_43\_11\_20220906\_00001.jpg



View of the rodent holes above the irrigation pipe. Spring 2021.

LM Start	1.84	Rating **	M	Issue No.	29
LM End	1.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.135412 °	39.135412 °
				-121.748835 °	-121.748835 °
DWR ID	DWR_ST0010_02_f_2022_29				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

No Photos

LM Start	1.91	Rating **	M	Issue No.	28
LM End	1.91	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.136275 °	39.136275 °
				-121.748134 °	-121.748134 °
DWR ID	DWR_ST0010_02_f_2022_28				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : FA\_2022\_ST0010\_43\_28\_20220919\_00049.jpg



View of a depression in the waterside slope. Fall 2022.

* 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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**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	09/14/2022 09/15/2022	Makar Sokol

LM Start	2.41	Rating **	A/W	Issue No.	9
LM End	3.28	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2018 USACE Erosion Survey			39.142254 °	39.153150 °
				-121.742847 °	-121.734611 °
DWR ID	DWR_ST0010_02_s_2022_9				
Comment Code					
Inspector Comment					
2018 Site ID: WAC 2.4 R					
Status: Eroding					
2018 Field Notes: Last observed in 2017.					
Site History: 2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem. 2017 - Significant new erosion lower bank.					

No Photos

LM Start	2.50	Rating **	M	Issue No.	30
LM End	2.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.143480 °	39.143480 °
				-121.742137 °	-121.742137 °
DWR ID	DWR_ST0010_02_f_2022_30				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

No Photos

LM Start	2.95	Rating **	M	Issue No.	21
LM End	2.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Vehicle Traffic			39.148938 °	39.148938 °
				-121.737620 °	-121.737620 °
DWR ID	DWR_ST0010_02_f_2016_21				
Comment Code					
E6 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Ramp is causing a depression in the levee slope.					

Photo 1 of 1 : FA\_2022\_ST0010\_43\_21\_20220906\_00003.jpg



View of the ramp encroaching into the levee. Fall 2020.

<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	<b>N : Not Inspected/Rated</b> 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. 02 Wadsworth Canal	Right	4.60	09/14/2022 09/15/2022	Makar Sokol

LM Start	2.95	Rating **	A/W	Issue No.	22
LM End	2.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			39.148938 °	39.148938 °
				-121.737620 °	-121.737620 °
DWR ID	DWR_ST0010_02_f_2016_22				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					

Photo 1 of 1 : FA\_2022\_ST0010\_43\_22\_20220906\_00004.jpg



View of the cracking along the waterside toe. Fall 2020.

LM Start	3.29	Rating **	A/W	Issue No.	10
LM End	4.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2018 USACE Erosion Survey			39.153320 °	39.171031 °
				-121.734573 °	-121.727040 °
DWR ID	DWR_ST0010_02_s_2022_10				
Comment Code					
Inspector Comment					
2018 Site ID: WAC 4.3 R					
Status: Eroding					
2018 Field Notes: Last observed in 2017.					
Site History: 2011 - Small erosion pocket. 2017 - Site extended downstream, significant lower bank erosion.					

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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