

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2020

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	09/24/2020 09/24/2020	Makar Sokol

LM Start		Rating **	A	Issue No.	10
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					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	11
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					
Inspector Comment					
The LMA has flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	12
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					
Inspector Comment					
The LMA completed flood fight training in 2018.					

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 Wadsworth Canal	Left	4.63	09/24/2020 09/24/2020	Makar Sokol

LM Start	0.06	Rating **	A/W	Issue No.	20
LM End	0.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.114203 °	39.114842 °
				-121.768015 °	-121.767382 °
DWR ID	DWR_ST0010_01_f_2016_20				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : FA_2020_ST0010_42_20_20200915_00007.jpg



View of the erosion along the waterside toe.

LM Start	0.38	Rating **	A/W	Issue No.	19
LM End	0.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.117910 °	39.117910 °
				-121.764497 °	-121.764497 °
DWR ID	DWR_ST0010_01_f_2016_19				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : FA_2020_ST0010_42_19_20201014_00043.jpg



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

LM Start	0.44	Rating **	M	Issue No.	28
LM End	0.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.118566 °	39.118566 °
				-121.763885 °	-121.763885 °
DWR ID	DWR_ST0010_01_f_2019_28				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
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 Wadsworth Canal	Left	4.63	09/24/2020 09/24/2020	Makar Sokol

LM Start	0.50	Rating **	U	Issue No.	22
LM End	0.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.119348 °	39.119348 °
				-121.763120 °	-121.763120 °
DWR ID	DWR_ST0010_01_f_2017_22				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the beaver hole along the waterside berm.					

Photo 1 of 1 : FA_2020_ST0010_42_22_20200915_00008.jpg



View of the beaver hole along the waterside berm.

LM Start	0.56	Rating **	M	Issue No.	18
LM End	0.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.119985 °	39.119985 °
				-121.762600 °	-121.762600 °
DWR ID	DWR_ST0010_01_s_2017_18				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA_2020_ST0010_42_18_20201014_00044.jpg



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

LM Start	1.28	Rating **	C	Issue No.	29
LM End	1.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.128352 °	39.128352 °
				-121.754575 °	-121.754575 °
DWR ID	DWR_ST0010_01_f_2019_29				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	09/24/2020 09/24/2020	Makar Sokol

LM Start	1.75	Rating **	M	Issue No.	7
LM End	2.39	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			39.133887 °	39.141757 °
				-121.749526 °	-121.742939 °
DWR ID	DWR_ST0010_01_f_2018_7				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 2.1 L					
Status: Eroding					
2017 Field Notes: Minor new erosion observed.					
Site History: 2011 - Whole bank is starting to unravel, with failure from poor soils.					

No Photos

LM Start	1.85	Rating **	U	Issue No.	107
LM End	1.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.135110 °	39.135110 °
				-121.748230 °	-121.748230 °
DWR ID	DWR_ST0010_01_f_2013_107				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Significant erosion is present at this site and should be addressed.					

LM Start	1.85	Rating **	U	Issue No.	107 (cont)
LM End	1.85	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : FA_2020_ST0010_42_107_20200915_00010.jpg



View of erosion along both sides of the abandoned pump. Spring 2020.

Photo 2 of 2 : FA_2020_ST0010_42_107_20200915_00011.jpg



View of the erosion along both sides of the abandoned pump. Spring 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	09/24/2020 09/24/2020	Makar Sokol

LM Start	2.36	Rating **	M	Issue No.	16
LM End	2.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.141275 °	39.143205 °
				-121.743207 °	-121.741605 °
DWR ID	DWR_ST0010_01_f_2020_16				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2020_ST0010_42_16_20201014_00045.jpg



View of the vegetation along the waterside slope. Fall 2020.

LM Start	2.43	Rating **	M	Issue No.	6
LM End	3.30	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			39.142235 °	39.153095 °
				-121.742609 °	-121.734390 °
DWR ID	DWR_ST0010_01_f _2018_6				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 2.4 L					
Status: Eroding					
2017 Field Notes: Significant new erosion along lower bank.					
Site History: 2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem.					

Photo 1 of 2 : FA_2020_ST0010_42_6_20200915_00001.jpg



View of the erosion along the waterside toe.

LM Start	2.43	Rating **	M	Issue No.	6 (cont)
LM End	3.30	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2020_ST0010_42_6_20200915_00004.jpg



View of the erosion along the waterside toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	09/24/2020 09/24/2020	Makar Sokol

LM Start	3.32	Rating **	M	Issue No.	25
LM End	4.60	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			39.153296 °	39.170973 °
				-121.734304 °	-121.726852 °
DWR ID	DWR_ST0010_01_f_2018_25				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 4.4 L					
Status: Eroding New					
2017 Field Notes: Significant lower bank erosion and overall slumping.					
Site History:					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
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 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	09/24/2020 09/24/2020	Makar Sokol

LM Start	1.74	Rating **	A/W	Issue No.	10
LM End	2.37	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			39.134064 °	39.141814 °
				-121.749781 °	-121.743260 °
DWR ID	DWR_ST0010_02_f_2018_10				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 2.1 R					
Status: Eroding					
2017 Field Notes: Minor new erosion observed.					
Site History: 2011 - Whole bank is starting to unravel, with failure from poor soils.					

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	Slope Stability			39.134378 °	39.134378 °
				-121.749803 °	-121.749803 °
DWR ID	DWR_ST0010_02_f_2016_20				
Comment Code					
S3 : 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_2020_ST0010_43_20_20201014_00048.jpg



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

LM Start	1.76	Rating **	M	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_2020_ST0010_43_11_20200915_00005.jpg



View of the rodent holes above the irrigation pipe. Spring 2020.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	09/24/2020 09/24/2020	Makar Sokol

LM Start	2.41	Rating **	A/W	Issue No.	8
LM End	3.28	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			39.142254 °	39.153150 °
				-121.742847 °	-121.734611 °
DWR ID	DWR_ST0010_02_f_2018_8				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 2.4 R					
Status: Eroding					
2017 Field Notes: Significant new erosion along lower bank.					
Site History: 2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem.					

Photo 1 of 2 : FA_2020_ST0010_43_8_20200915_00001.jpg



View of erosion along the waterside toe.

LM Start	2.41	Rating **	A/W	Issue No.	8 (cont)
LM End	3.28	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2020_ST0010_43_8_20200915_00002.jpg



View of the erosion along the landside toe.

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	Slope Stability			39.148938 °	39.148938 °
				-121.737620 °	-121.737620 °
DWR ID	DWR_ST0010_02_f_2016_21				
Comment Code					
S3 : 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_2020_ST0010_43_21_20201014_00050.jpg



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

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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	09/24/2020 09/24/2020	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_2020_ST0010_43_22_20201014_00049.jpg



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

LM Start	3.30	Rating **	A/W	Issue No.	9
LM End	4.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			39.153320 °	39.171031 °
				-121.734573 °	-121.727040 °
DWR ID	DWR_ST0010_02_f_2018_9				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 4.3 R					
Status: Eroding					
2017 Field Notes: Site extended downstream. Significant lower bank erosion.					
Site History: 2011 - Small erosion pocket.					

Photo 1 of 2 : FA_2020_ST0010_43_9_20200915_00003.jpg



View of the erosion along the waterside toe.

LM Start	3.30	Rating **	A/W	Issue No.	9 (cont)
LM End	4.58	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2020_ST0010_43_9_20200915_00004.jpg



View of the erosion along the waterside 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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