

Flood Control Project Maintenance Levee Inspections

Fall 2020 Levee Maintenance Deficiency Summary Report

Sacramento River Basin

ST0014	Overall LMA Rating	Total LMA Miles						
Sutter Maintenance Yard Murphy Slough at M&T Ranch	U	0.83						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.81		0.81	97.35%				
Encroachments	0.01		0.01	1.20%	0.47			
Erosion / Bank Caving	0.04		0.04	4.81%				
<i>LMA Totals:</i>	0.86	0.00	0.86	103.36%	0.47	0.00	0.00	0.00

Unit No. 01 Murphy Slough at M&T Ranch LB	Overall Unit Rating	Total Unit Miles						
ST0014	U	0.83						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.81		0.81	97.35%				
Encroachments	0.01		0.01	1.20%	0.47			
Erosion / Bank Caving	0.04		0.04	4.81%				
<i>Unit Totals:</i>	0.86	0.00	0.86	103.36%	0.47	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections
Unit Cover Sheet**

Sutter Maintenance Yard Murphy Slough at M&T Ranch

Waterway			Bank	Unit Miles
Unit No. 01 Murphy Slough at M&T Ranch			Left	0.83
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	4/8/2020 - 4/8/2020		10/27/2020 - 10/27/2020	
DWR Inspector	Makar Sokol		Makar Sokol	
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2020

Sutter Maintenance Yard Murphy Slough at M&T Ranch

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Murphy Slough at M&T Ranch	Left	0.83	10/27/2020 10/27/2020	Makar Sokol

LM Start		Rating **	A	Issue No.	2
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_NA0014_01_s_2013_2				
Comment Code					
Inspector Comment					
The LMA completed flood fight training.					

No Photos

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_NA0014_01_s_2013_3				
Comment Code					
Inspector Comment					
The LMA has adequate flood fight supplies and equipment.					

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	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_NA0014_01_s_2013_6				
Comment Code					
Inspector Comment					
There is no O&M Manual for M&T Ranch.					

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**

Levee Inspection Report By Mile - Fall 2020

Sutter Maintenance Yard Murphy Slough at M&T Ranch

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Murphy Slough at M&T Ranch	Left	0.83	10/27/2020 10/27/2020	Makar Sokol

LM Start	0.00	Rating **	M	Issue No.	1
LM End	0.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.667748 °	39.667165 °
				-121.959205 °	-121.960218 °
DWR ID	DWR_NA0014_01_s_2012_1				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	4
LM End	0.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.667748 °	39.666983 °
				-121.959205 °	-121.960997 °
DWR ID	DWR_NA0014_01_s_2012_4				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	9
LM End	0.47	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.667748 °	39.666356 °
				-121.959205 °	-121.967574 °
DWR ID	DWR_ST0014_01_s_2019_9				
Comment Code					
FE : Fence					
Inspector Comment					

No Photos

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Levee Inspections**

Levee Inspection Report By Mile - Fall 2020

Sutter Maintenance Yard Murphy Slough at M&T Ranch

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Murphy Slough at M&T Ranch	Left	0.83	10/27/2020 10/27/2020	Makar Sokol

LM Start	0.12	Rating **	M	Issue No.	7
LM End	0.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.666786 °	39.668049 °
				-121.961007 °	-121.969178 °
DWR ID	DWR_ST0014_01_f_2020_7				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2020_ST0014_372_7_20201103_00005.jpg



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

LM Start	0.13	Rating **	M	Issue No.	13
LM End	0.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.666739 °	39.666688 °
				-121.961250 °	-121.961636 °
DWR ID	DWR_ST0014_01_f_2020_13				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2020_ST0014_372_13_20201103_00008.jpg



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

LM Start	0.24	Rating **	M	Issue No.	10
LM End	0.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.666506 °	39.666506 °
				-121.963237 °	-121.963237 °
DWR ID	DWR_ST0014_01_f_2019_10				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA_2020_ST0014_372_10_20200915_00003.jpg



View of the erosion at the landside shoulder and slope. Fall 2019.

* Location
LS : Land Side N/A : Not Applicable
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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

**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Fall 2020

Sutter Maintenance Yard Murphy Slough at M&T Ranch

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Murphy Slough at M&T Ranch	Left	0.83	10/27/2020 10/27/2020	Makar Sokol

LM Start	0.28	Rating **	M	Issue No.	11
LM End	0.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.666403 °	39.666403 °
				-121.964004 °	-121.964004 °
DWR ID	DWR_ST0014_01_f_2019_11				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA_2020_ST0014_372_11_20200915_00004.jpg



View of the erosion at the landside slope. Fall 2019.

LM Start	0.31	Rating **	M	Issue No.	8
LM End	0.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.666319 °	39.666319 °
				-121.964544 °	-121.964544 °
DWR ID	DWR_ST0014_01_s_2019_8				
Comment Code					
TR : Tree or limb					
Inspector Comment					
The tree should be removed from the landside toe.					

Photo 1 of 1 : FA_2020_ST0014_372_8_20200915_00002.jpg



View of the tree at the landside toe. Spring 2020.

LM Start	0.48	Rating **	M	Issue No.	12
LM End	0.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.666372 °	39.666372 °
				-121.967691 °	-121.967691 °
DWR ID	DWR_ST0014_01_f_2019_12				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

No Photos

* 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 Murphy Slough at M&T Ranch

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Murphy Slough at M&T Ranch	Left	0.83	10/27/2020 10/27/2020	Makar Sokol

LM Start	0.50	Rating **	M	Issue No.	14
LM End	0.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.666453 °	39.667646 °
				-121.967970 °	-121.969069 °
DWR ID	DWR_ST0014_01_f_2020_14				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2020_ST0014_372_14_20201103_00009.jpg



LM Start	0.56	Rating **	M	Issue No.	5
LM End	0.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.667026 °	39.667026 °
				-121.968890 °	-121.968890 °
DWR ID	DWR_ST0014_01_s _ 2019_5				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA_2020_ST0014_372_5_20200915_00001.jpg



View of the erosion on the landside slope. Spring 2019.

LM Start	0.74	Rating **	M	Issue No.	15
LM End	0.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.669474 °	39.669474 °
				-121.970058 °	-121.970058 °
DWR ID	DWR_ST0014_01_f_2020_15				
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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