

**Flood Control Project Maintenance
Levee Inspections**

Fall 2019 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

MA0005 Sutter Maintenance Yard Maintenance Area 0005	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
	M *	32.84						
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	0.09		0.09	0.27%	0.08	0.11		
Trim / Thin Trees	0.21		0.21	0.64%				
Encroachments	0.12		0.12	0.37%	5.24	0.20		
Animal Control	0.07	0.02	0.15	0.46%				
Slope Stability	0.08	0.01	0.12	0.37%				
Erosion / Bank Caving	0.02	0.01	0.06	0.18%				
Crown Surface / Depressions / Rutting	0.01		0.01	0.03%				
<i>Supplemental</i>								
DRAFT DWR UCIP Field Study					0.19			
DRAFT DWR UCIP LMA Responsibility								
<i>LMA Totals:</i>	0.60	0.04	0.76	2.31% *	5.51	0.31	0.00	0.00

Unit No. 01 Butte Creek LB MA0005	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
	M *	15.08						
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	0.08		0.08	0.53%	0.08	0.11		
Trim / Thin Trees	0.17		0.17	1.13%				
Encroachments	0.11		0.11	0.73%	3.27	0.10		
Animal Control	0.01		0.01	0.07%				
Slope Stability	0.03		0.03	0.20%				
Erosion / Bank Caving	0.01	0.01	0.05	0.33%				
<i>Supplemental</i>								
DRAFT DWR UCIP Field Study					0.08			
DRAFT DWR UCIP LMA Responsibility								
<i>Unit Totals:</i>	0.41	0.01	0.45	2.98% *	3.43	0.21	0.00	0.00

Unit No. 02 Butte Creek RB MA0005	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
	M *	16.27						
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	0.01		0.01	0.06%				
Trim / Thin Trees	0.04		0.04	0.25%				
Encroachments	0.01		0.01	0.06%	1.97	0.10		
Animal Control	0.06	0.02	0.14	0.86%				
Slope Stability	0.05	0.01	0.09	0.55%				
Erosion / Bank Caving	0.01		0.01	0.06%				
Crown Surface / Depressions / Rutting	0.01		0.01	0.06%				
<i>Supplemental</i>								
DRAFT DWR UCIP Field Study					0.11			
DRAFT DWR UCIP LMA Responsibility								
<i>Unit Totals:</i>	0.19	0.03	0.31	1.91% *	2.08	0.10	0.00	0.00

**Flood Control Project Maintenance
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Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin (cont.)

Unit No. 03 Little Chico Creek Diversion LB MA0005	Overall Unit Rating	Total Unit Miles						
	A	1.49						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
No Items								
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%				

**Flood Control Project Maintenance
Levee Inspections
LMA District Cover Sheet
Fall 2019 Levee Inspection Results**

Sutter Maintenance Yard Maintenance Area 0005

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			M *	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

† **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2019 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0005

Waterway		Bank	Unit Miles	
Unit No. 01 Butte Creek		Left	15.08	
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M *	
Date of Inspection	5/14/2019 - 5/14/2019		10/23/2019 - 10/23/2019	
DWR Inspector	Makar Sokol		Makar Sokol	
Accompanied By	Shawn Freitag Sutter Maintenance Yard		Bob Duffey Sutter Maintenance Yard	

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start		Rating **	A	Issue No.	11
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Operations & Maintenance Manuals			o	
				o	
DWR ID	DWR_MA0005_01_s_2013_11				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Emergency Supplies & Equipment			o	
				o	
DWR ID	DWR_MA0005_01_s_2013_12				
Comment Code					
Inspector Comment					
The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	13
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Flood Preparedness & Training			o	
				o	
DWR ID	DWR_MA0005_01_s_2013_13				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2019.					

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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	0.02	Rating **	M	Issue No.	60
LM End	0.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.697079°	39.696127°	
			-121.773772°	-121.775013°	
DWR ID	DWR_MA0005_01_f_2019_60				
Comment Code					
DE : Debris					
Inspector Comment					
Remove all of the prunings and debris from the waterside slope and toe.					

No Photos

LM Start	0.07	Rating **	M	Issue No.	46
LM End	0.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		39.696611°	39.696611°	
			-121.774349°	-121.774349°	
DWR ID	DWR_MA0005_01_f_2016_46				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA_2019_MA0005_196_46_20190822_00022.jpg



View of the damaged slope by foot traffic.

LM Start	0.16	Rating **	M	Issue No.	45
LM End	0.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.695629°	39.694969°	
			-121.775650°	-121.776394°	
DWR ID	DWR_MA0005_01_f_2019_45				
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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	0.56	Rating **	M	Issue No.	903
LM End	0.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.690745°	39.690745°
				-121.777342°	-121.777342°
DWR ID	DWR_MA0005_01_s_2012_903				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	0.58	Rating **	M	Issue No.	32
LM End	0.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.690496°	39.689137°
				-121.777109°	-121.776938°
DWR ID	DWR_MA0005_01_s_2014_32				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trees smaller than 4-inches in diameter at chest height shall be removed from the landside slope and within ten feet of the landside toe.					

Photo 1 of 1 : FA_2019_MA0005_196_32_20190822_00012.jpg



View of the trees along the landside toe blocking visibility.

LM Start	0.68	Rating **	U	Issue No.	44
LM End	0.77	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.689135°	39.687968°
				-121.776929°	-121.777387°
DWR ID	DWR_MA0005_01_s_2016_44				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2019_MA0005_196_44_20190822_00020.jpg



View of oleanders along the landside 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	0.79	Rating **	M	Issue No.	47
LM End	0.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.687676 °	39.687193 °
				-121.777419 °	-121.777461 °
DWR ID	DWR_MA0005_01_f_2019_47				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA_2019_MA0005_196_47_20191028_00086.jpg



View of trees that require trimming along the landside slope. Fall 2019.

LM Start	0.90	Rating **	U	Issue No.	49
LM End	0.92	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.686087 °	39.685756 °
				-121.777555 °	-121.777540 °
DWR ID	DWR_MA0005_01_f_2016_49				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : FA_2019_MA0005_196_49_20190822_00023.jpg



View of the wood plank fence at the landside toe.

LM Start	0.98	Rating **	U	Issue No.	50
LM End	1.00	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.684843 °	39.684606 °
				-121.777132 °	-121.776975 °
DWR ID	DWR_MA0005_01_f_2016_50				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Oleanders are blocking visibility.					

Photo 1 of 1 : FA_2019_MA0005_196_50_20190822_00024.jpg



View of the oleanders along the landside 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	1.01	Rating **	M	Issue No.	51
LM End	1.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.684497°	39.684497°
				-121.776905°	-121.776905°
DWR ID	DWR_MA0005_01_f_2016_51				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.11	Rating **	M	Issue No.	52
LM End	1.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.683208°	39.682695°
				-121.776279°	-121.776325°
DWR ID	DWR_MA0005_01_f_2016_52				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.16	Rating **	M	Issue No.	43
LM End	1.24	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.682402°	39.681322°
				-121.776405°	-121.776506°
DWR ID	DWR_MA0005_01_s_2016_43				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2019_MA0005_196_43_20190822_00019.jpg



View of the overgrown vegetation at the landside 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	1.24	Rating **	U	Issue No.	42
LM End	1.26	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.681305°	39.681044°
				-121.776533°	-121.776547°
DWR ID	DWR_MA0005_01_s_2016_42				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : FA_2019_MA0005_196_42_20190822_00018.jpg



View of the wood plank fence at the landside toe.

LM Start	1.30	Rating **	U	Issue No.	41
LM End	1.36	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.680452°	39.679551°
				-121.776667°	-121.776904°
DWR ID	DWR_MA0005_01_s_2016_41				
Comment Code					
FE : Fence					
Inspector Comment					
Wood plank fencing across multiple properties.					

No Photos

LM Start	1.45	Rating **	C	Issue No.	40
LM End	1.45	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.678318°	39.678318°
				-121.777231°	-121.777231°
DWR ID	DWR_MA0005_01_s_2016_40				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Cedar trees need to be trimmed up.					

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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	1.52	Rating **	M	Issue No.	53
LM End	1.52	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.677240°	39.677240°
				-121.777521°	-121.777521°
DWR ID	DWR_MA0005_01_f_2016_53				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the pile of soil and rocks on the landside toe.					

Photo 1 of 1 : FA_2019_MA0005_196_53_20190822_00025.jpg



View of the soil and rock pile on the landside toe.

LM Start	1.53	Rating **	M	Issue No.	30
LM End	1.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.677130°	39.677130°
				-121.777583°	-121.777583°
DWR ID	DWR_MA0005_01_f_2014_30				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : FA_2019_MA0005_196_30_20190822_00010.jpg



View of the sprinkler pipe and equipment along the landside toe.

LM Start	1.58	Rating **	A/W	Issue No.	73
LM End	1.68	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			39.676588°	39.675280°
				-121.777977°	-121.779005°
DWR ID	DWR_MA0005_01_f_2018_73				
Comment Code					
Inspector Comment					
2017 Site ID: BTC 1.8 L Status: Eroding New 2017 Field Notes: Long vertical scarp on toe. Site History:					

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**

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Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	1.60	Rating **	A/W	Issue No.	71
LM End	1.64	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			39.676298°	39.675818°
				-121.778272°	-121.778630°
DWR ID	MA5-N-01				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:224					
Site Designation:MA5-N-01					
Repair Type: Erosion					
Rating:Serious					
Field Date:6/8/2017					
Notes: This soil has more sand and less clay than the other MA5 site, more clay in the levee than in the bank here. There are several small bank erosion sites nearby.					

No Photos

LM Start	1.61	Rating **	C	Issue No.	16
LM End	1.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.676129°	39.676129°
				-121.778171°	-121.778171°
DWR ID	DWR_MA0005_01_s_2013_16				
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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	1.66	Rating **	M	Issue No.	1
LM End	1.66	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.675528°	39.675528°
				-121.778642°	-121.778642°
DWR ID	DWR_MA0005_01_s_2012_1				
Comment Code					
MA : Material					
Inspector Comment					
The materials and equipment should be moved ten feet away from the landside toe.					

Photo 1 of 1 : FA_2019_MA0005_196_1_20190822_00001.jpg



View of the construction supply on pallets.

LM Start	1.82	Rating **	M	Issue No.	28
LM End	1.82	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.673390°	39.673390°
				-121.779830°	-121.779830°
DWR ID	DWR_MA0005_01_s_2015_28				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : FA_2019_MA0005_196_28_20190822_00009.jpg



View of the prunings along the landside toe.

LM Start	1.88	Rating **	C	Issue No.	35
LM End	1.88	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.672627°	39.672627°
				-121.779778°	-121.779778°
DWR ID	DWR_MA0005_01_f_2014_35				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	2.09	Rating **	M	Issue No.	10
LM End	2.09	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.670112°	39.670112°	
			-121.782012°	-121.782012°	
DWR ID	DWR_MA0005_01_s_2016_10				
Comment Code					
FE : Fence					
Inspector Comment					
No permit was found for the gate.					

Photo 1 of 1 : FA_2019_MA0005_196_10_20190822_00005.jpg



View of the unpermitted gate.

LM Start	2.20	Rating **	M	Issue No.	48
LM End	2.20	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.668632°	39.668632°	
			-121.782464°	-121.782464°	
DWR ID	DWR_MA0005_01_f_2019_48				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	2.26	Rating **	M	Issue No.	61
LM End	2.26	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.667732°	39.667732°	
			-121.782717°	-121.782717°	
DWR ID	DWR_MA0005_01_f_2019_61				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	2.54	Rating **	M	Issue No.	9
LM End	2.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.663876 °	39.663876 °
				-121.784014 °	-121.784014 °
DWR ID	DWR_MA0005_01_f_2012_9				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA_2019_MA0005_196_9_20190822_00004.jpg



View of the vehicle erosion along the landside slope.

LM Start	2.82	Rating **	M	Issue No.	65
LM End	2.82	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.660153 °	39.660153 °
				-121.785137 °	-121.785137 °
DWR ID	DWR_MA0005_01_f_2018_65				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the pruning from the landside toe.					

Photo 1 of 1 : FA_2019_MA0005_196_65_20190822_00029.jpg



View of the prunings along the landside toe.

LM Start	3.06	Rating **	M	Issue No.	37
LM End	3.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.656911 °	39.656911 °
				-121.787097 °	-121.787097 °
DWR ID	DWR_MA0005_01_f_2015_37				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : FA_2019_MA0005_196_37_20190822_00014.jpg



View of the prunings along the landside 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	3.07	Rating **	M	Issue No.	62
LM End	3.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.656814 °	39.656814 °
				-121.787130 °	-121.787130 °
DWR ID	DWR_MA0005_01_f_2019_62				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	3.21	Rating **	M	Issue No.	38
LM End	3.21	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.654938 °	39.654938 °
				-121.787892 °	-121.787892 °
DWR ID	DWR_MA0005_01_f_2015_38				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : FA_2019_MA0005_196_38_20190822_00015.jpg



View of the prunings along the landside toe.

LM Start	3.42	Rating **	M	Issue No.	31
LM End	3.42	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.652028 °	39.652028 °
				-121.789090 °	-121.789090 °
DWR ID	DWR_MA0005_01_s_2015_31				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : FA_2019_MA0005_196_31_20190822_00011.jpg



View of the prunings along the landside 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	3.60	Rating **	C	Issue No.	39
LM End	3.60	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.649641°	39.649641°	
			-121.788048°	-121.788048°	
DWR ID	DWR_MA0005_01_s_2019_39				
Comment Code					
DE : Debris					
Inspector Comment					
Remove pile of soil and wood logs from the landside 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	3.61	Rating **	M	Issue No.	904
LM End	3.61	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.649522 °	39.649522 °
				-121.787965 °	-121.787965 °
DWR ID	1615				
Comment Code					
Inspector Comment					
<p>DS_ID:1615 FS_ID:54140 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 06/05/2019 Durham Mutual Water Company fixed broken slide gate by replacing a stem. Operating wheel is missing. Crossing downgraded to non-urgent. (O.Yakimov - DWR UCIP)10/5/2018 Observed pipe running during inspection. Pipe is used to drain water from LS concrete box to WS. Field structure description was updated to show structure type as drainage pipe. Confirmed that the concrete box on LS receives water from a pipe running along the LS toe from orchards upstream and distributes water between 3 pipes, one of which crosses levee at an angle. Missing closure device on WS. Screw gate stuck in open position inside CMP riser located on WS shoulder and is not operable. (O.Yakimov - DWR)5/15/2017 WS slide gate stem bent and gate is stuck in the open position. Outlet in the the concrete box on the WS berm is opened and allowed water to free flow through the pipe during the Jan/Feb 2017 high water events. Either the screw gate needs to be repaired or a flap gate added to the outlet in the concrete box to not allow high water flows though the levee. Pipe is believed to be owned and operated by Duhram Mutual Water Company at 1807 Duhram Dayton HWY, PO Box 612, Duhram CA 95938 (530)342-9324. (DWR Sutter Yard- AFreitag)</p> <p>11/15/2016 Abandoned- slide gate is opened and inoperable. Needs to be properly abandoned. (DWR Sutter Yard- AFreitag)5/9/2016 Abandoned crossing. Slide gate stem bent and wheel is missing.8/5/2015 Abandoned crossing. Slide gate stem is bent and gate is inoperable. Needs to be properly abandoned.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/20/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe appears to be abandoned. Slide gate open and inoperable. Pipe should be properly abandoned. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 10.5 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. Concrete distribution box on the landside (LS) toe and concrete overflow and siphon box at the edge of berm. [Additional Reference(s): DWR Levee Log, 1990 (HLM 3.69). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960 (Station 368+17)]. FS Date: 6/5/2019 1:45:26 PM</p>					

Photo 1 of 3 : UCIP_FA_2019_54140_79693.jpg



View of levee crown at crossing

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	3.61	Rating **	M	Issue No.	904 (cont)
LM End	3.61	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.649522°	39.649522°
				-121.787965°	-121.787965°
DWR ID	1615				

Photo 2 of 3 : UCIP_FA_2019_54140_79687.jpg



CMP riser with slide gate on WS shoulder

Comment Code

Inspector Comment

DS_ID:1615
 FS_ID:54140
 EP_NO: N/A
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 06/05/2019 Durham Mutual Water Company fixed broken slide gate by replacing a stem. Operating wheel is missing. Crossing downgraded to non-urgent. (O.Yakimov - DWR UCIP)10/5/2018 Observed pipe running during inspection. Pipe is used to drain water from LS concrete box to WS. Field structure description was updated to show structure type as drainage pipe. Confirmed that the concrete box on LS receives water from a pipe running along the LS toe from orchards upstream and distributes water between 3 pipes, one of which crosses levee at an angle. Missing closure device on WS. Screw gate stuck in open position inside CMP riser located on WS shoulder and is not operable. (O.Yakimov - DWR)5/15/2017 WS slide gate stem bent and gate is stuck in the open position. Outlet in the the concrete box on the WS berm is opened and allowed water to free flow through the pipe during the Jan/Feb 2017 high water events. Either the screw gate needs to be repaired or a flap gate added to the outlet in the concrete box to not allow high water flows though the levee. Pipe is believed to be owned and operated by Duhram Mutual Water Company at 1807 Duhram Dayton HWY, PO Box 612, Duhram CA 95938 (530)342-9324. (DWR Sutter Yard- AFreitag)

11/15/2016 Abandoned- slide gate is opened and inoperable. Needs to be properly abandoned. (DWR Sutter Yard- AFreitag)5/9/2016 Abandoned crossing. Slide gate stem bent and wheel is missing.8/5/2015 Abandoned crossing. Slide gate stem is bent and gate is inoperable. Needs to be properly abandoned.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/20/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe appears to be abandoned. Slide gate open and inoperable. Pipe should be properly abandoned.
 FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 10.5 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. Concrete distribution box on the landside (LS) toe and concrete overflow and siphon box at the edge of berm. [Additional Reference(s): DWR Levee Log, 1990 (HLM 3.69). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960 (Station 368+17)].
 FS Date: 6/5/2019 1:45:26 PM

* 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	3.61	Rating **	M	Issue No.	904 (cont)
LM End	3.61	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.649522 °	39.649522 °
				-121.787965 °	-121.787965 °
DWR ID	1615				

Comment Code

Inspector Comment

DS_ID:1615
 FS_ID:54140
 EP_NO: N/A
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 06/05/2019 Durham Mutual Water Company fixed broken slide gate by replacing a stem. Operating wheel is missing. Crossing downgraded to non-urgent. (O.Yakimov - DWR UCIP)10/5/2018 Observed pipe running during inspection. Pipe is used to drain water from LS concrete box to WS. Field structure description was updated to show structure type as drainage pipe. Confirmed that the concrete box on LS receives water from a pipe running along the LS toe from orchards upstream and distributes water between 3 pipes, one of which crosses levee at an angle. Missing closure device on WS. Screw gate stuck in open position inside CMP riser located on WS shoulder and is not operable. (O.Yakimov - DWR)5/15/2017 WS slide gate stem bent and gate is stuck in the open position. Outlet in the the concrete box on the WS berm is opened and allowed water to free flow through the pipe during the Jan/Feb 2017 high water events. Either the screw gate needs to be repaired or a flap gate added to the outlet in the concrete box to not allow high water flows though the levee. Pipe is believed to be owned and operated by Duhram Mutual Water Company at 1807 Duhram Dayton HWY, PO Box 612, Duhram CA 95938 (530)342-9324. (DWR Sutter Yard- AFreitag)

11/15/2016 Abandoned- slide gate is opened and inoperable. Needs to be properly abandoned. (DWR Sutter Yard- AFreitag)5/9/2016 Abandoned crossing. Slide gate stem bent and wheel is missing.8/5/2015 Abandoned crossing. Slide gate stem is bent and gate is inoperable. Needs to be properly abandoned.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/20/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe appears to be abandoned. Slide gate open and inoperable. Pipe should be properly abandoned.

FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 10.5 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. Concrete distribution box on the landside (LS) toe and concrete overflow and siphon box at the edge of berm. [Additional Reference(s): DWR Levee Log, 1990 (HLM 3.69). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960 (Station 368+17)].
 FS Date: 6/5/2019 1:45:26 PM

Photo 3 of 3 : UCIP_FA_2019_54140_79690.jpg



CMP riser WS shoulder

* 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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	3.68	Rating **	M	Issue No.	70
LM End	3.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.648585°	39.648585°	
			-121.787238°	-121.787238°	
DWR ID	DWR_MA0005_01_s_2019_70				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	3.87	Rating **	M	Issue No.	905
LM End	3.87	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP LMA Responsibility		39.646217°	39.646217°	
			-121.785431°	-121.785431°	
DWR ID	1616				
Comment Code					
Inspector Comment					
<p>DS_ID:1616 FS_ID:54141 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 06/05/2019 No issues recorded during inspection. (O.Yakimov - DWR UCIP) 05/15/2017 Crossing appears to be in good condition. LS inlet is located in the Distribution box on the LS toe. This is an overflow pipe used to regulate water levels in side the box. Pipe has been selected to be internally cleaned and inspected as part fo the DMP project. (DWR Sutter Yard- AFreitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/9/2016 Crossing appears to be in good condition.8/5/2015 WS pipe end is being overgrown by trees and other vegetation. Needs to be cleared back.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/20/2013 Same as last inspection.5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.0 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. Flap gate on the WS toe. Inlet on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1990 (HLM 3.95). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 381+36)]. FS Date: 6/5/2019 2:07:47 PM</p>					

Photo 1 of 3 : UCIP_FA_2019_54141_79700.jpg



CMP riser and slide gate on WS shoulder

* 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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	3.87	Rating **	M	Issue No.	905 (cont)
LM End	3.87	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.646217°	39.646217°
				-121.785431°	-121.785431°
DWR ID	1616				

Comment Code

Inspector Comment

DS_ID:1616
 FS_ID:54141
 EP_NO: N/A
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 06/05/2019 No issues recorded during inspection. (O.Yakimov - DWR UCIP)
 05/15/2017 Crossing appears to be in good condition. LS inlet is located in the Distribution box on the LS toe. This is an overflow pipe used to regulate water levels in side the box. Pipe has been selected to be internally cleaned and inspected as part fo the DMP project. (DWR Sutter Yard- AFreitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/9/2016 Crossing appears to be in good condition.8/5/2015 WS pipe end is being overgrown by trees and other vegetation. Needs to be cleared back.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/20/2013 Same as last inspection.5/29/2013 Same as last inspection.
 FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.0 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. Flap gate on the WS toe. Inlet on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1990 (HLM 3.95). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 381+36)].
 FS Date: 6/5/2019 2:07:47 PM

LM Start	3.87	Rating **	M	Issue No.	905 (cont)
LM End	3.87	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2019_54141_79696.jpg



View inside of concrete distribution box on LS

Photo 3 of 3 : UCIP_FA_2019_54141_79699.jpg



Steel welded pipe inside of concrete distribution box on LS goes toward the levee

* 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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	3.87	Rating **	M	Issue No.	906
LM End	3.87	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP LMA Responsibility		39.646194 °	39.646194 °	
			-121.785418 °	-121.785418 °	
DWR ID	1617				
Comment Code					
Inspector Comment					
<p>DS_ID:1617 FS_ID:54142 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 06/05/2019 No issues recorded during inspection. (O.Yakimov - DWR UCIP)5/15/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/9/2016 Crossing appears to be in good condition.8/5/2015 Crossing appears in good condition. No noticeable issues to report.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/20/2013 Same as last inspection.5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation siphon pipe through the levee, 16.5 feet below the crown. Slide gate in corrugated metal riser on the waterside (WS) slope. Pipe appears to be currently used for irrigation purposes. 4-foot by 8-foot concrete distribution box on the landside (LS), 40 feet from the LS toe. [Additional Reference(s): DWR Levee Log, 1990 (HLM 3.95). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 381+42), pipe varies in size: 24-inch pipe (right bank), 24-inch through Butte Creek, and 3-foot by 3-foot (36-inch by 36-inch) culvert (left bank)]. FS Date: 6/5/2019 2:29:42 PM</p>					

Photo 1 of 3 : UCIP_FA_2019_54142_79701.jpg



CMP riser and slide gate on WS shoulder

LM Start	3.87	Rating **	M	Issue No.	906 (cont)
LM End	3.87	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2019_54142_79703.jpg



Inside view of CMP riser on WS shoulder

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	3.90	Rating **	M	Issue No.	907
LM End	3.90	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		39.645846°	39.645846°	
			-121.785155°	-121.785155°	
DWR ID	1619				
Comment Code					
Inspector Comment					
DS_ID:1619 FS_ID:51952 EP_NO: 6544-A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 5/15/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/9/2016 Crossing appears to be in good condition.8/5/2015 Pipe is suspected to cross inside of bridge.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/20/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipeline should be marked where pipe crosses levee as it is 4-feet below the surface. FIELD_STRUCT_DESC: 6-inch concrete encased steel high pressure gas pipeline through the levee, 4 feet below the crown. 8-inch diameter Pacific Gas & Electric Company (PG&E) gas access manhole located on the south side of the road, 250 feet east of the levee crown. (6-inch gas line authorized under Permit No. 6544-A, 1969 - Pacific Gas and Electric [PG&E]) [Additional Reference(s): DWR Levee Log, 1990]. FS Date: 5/31/2017 12:46:31 PM					

Photo 1 of 2 : UCIP_FA_2019_51952_67936.jpg



PG&E access lid on south edge of roadway.

LM Start	3.90	Rating **	M	Issue No.	907 (cont)
LM End	3.90	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_FA_2019_51952_67935.jpg



Location of PG&E access lid 250-feet east of levee crown on south side of roadway.

* 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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	4.11	Rating **	M	Issue No.	68
LM End	4.11	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.643315°	39.643315°
				-121.783010°	-121.783010°
DWR ID	DWR_MA0005_01_s_2019_68				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

No Photos

LM Start	4.13	Rating **	M	Issue No.	27
LM End	4.13	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.643100°	39.643100°
				-121.782827°	-121.782827°
DWR ID	DWR_MA0005_01_s_2017_27				
Comment Code					
EQ : Equipment					
Inspector Comment					
Agricultural piping on trailer.					

Photo 1 of 1 : FA_2019_MA0005_196_27_20190822_00008.jpg



5/5/2016: Remove equipment from LS toe.

LM Start	4.65	Rating **	M	Issue No.	66
LM End	4.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.636645°	39.636645°
				-121.777703°	-121.777703°
DWR ID	DWR_MA0005_01_s_2019_66				
Comment Code					
TR : Tree or limb					
Inspector Comment					
The tree limbs should be removed from the landside slope.					

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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	5.56	Rating **	M	Issue No.	908
LM End	5.56	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP LMA Responsibility		39.624559 °	39.624559 °	
			-121.772141 °	-121.772141 °	
DWR ID	1620				
Comment Code					
Inspector Comment					
DS_ID:1620 FS_ID:54040 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/23/2019 (O. Magana - DWR UCIP)05/15/2017 Abandoned and needs to be done properly. A sink hole formed in the WS toe road and revealed the location of the WS pipe end. Sink hole will need to be repaired before the next high water season but the pipe has been selected to be internally cleaned and camera inspected as part of the DMP project so it will have needed to be excavated along the WS end anyways. (DWR Sutter Yard- AFreitag)11/15/2016 Abandoned. Needs cover for the standpipe. (DWR Sutter Yard- AFreitag)05/09/2016 Abandoned pipe. Needs a cover for the standpipe.08/05/2015 Abandoned crossing. Covers need to be made for tops of standpipes to prevent falls.12/08/2014 Same as last inspection.06/11/2014 Same as last inspection.11/19/2013 Same as last inspection.05/29/2013 Same as last inspection. Land owner said pipes are abandoned and no longer used. Covers should be made for top of standpipe to prevent falls. Pipes should be properly abandoned.10/30/2012 Pipe 1/2 filled with soil at slide gate end. FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 36-inch drainage pipe through the levee, 11 feet below the crown. Slide gate in a 54-inch corrugated metal riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1990 (HLM 5.66). Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960 (Station 470+00)]. FS Date: 5/23/2019 5:10:38 PM					

Photo 1 of 2 : UCIP_FA_2019_54040_67941.jpg



Headwall at LS 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	5.69	Rating **	M	Issue No.	55
LM End	6.23	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.622766°	39.615666°	
			-121.773159°	-121.777353°	
DWR ID	DWR_MA0005_01_s_2015_55				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2019_MA0005_196_55_20190822_00026.jpg



View of the irrigation ditch along the landside toe.

LM Start	5.75	Rating **	M	Issue No.	910
LM End	5.75	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		39.621955°	39.621955°	
			-121.773633°	-121.773633°	
DWR ID	1622				
Comment Code					
Inspector Comment					
<p>DS_ID:1622 FS_ID:51958 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 5/15/2017 Unable to locate. (DWR Sutter Yard-AFreitag)11/15/2016 Unable to locate. The concrete fill in the LS toe channel appears to just be erosion protection. (DWR Sutter Yard-AFreitag)8/5/2015 Unable to locate.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 18-inch corrugated metal drainage pipe through the levee, 15 feet below the crown, indicator found. Concrete headwall and flap gate on the waterside (WS). Concrete fill in channel on the landside (LS) toe is a good indicator of the pipe location. [Additional Reference(s): DWR Levee Log, 1990 (HLM 5.85). Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, 18-inch pipe referenced only in USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 8, April 1957, (Station 480+25)]. FS Date: 5/31/2017 1:06:21 PM</p>					

Photo 1 of 1 : UCIP_FA_2019_51958_11616.jpg



Concrete fill on LS toe a good indicator for location of pipe.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	5.81	Rating **	U	Issue No.	56
LM End	5.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.621261°	39.621261°
				-121.773973°	-121.773973°
DWR ID	DWR_MA0005_01_f_2016_56				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 2 : FA_2019_MA0005_196_56_20190822_00027.jpg



View of the landside toe erosion.

LM Start	5.81	Rating **	U	Issue No.	56 (cont)
LM End	5.81	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2019_MA0005_196_56_20190822_00028.jpg



Another view of the landside toe erosion.

* 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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	7.58	Rating **	M	Issue No.	911
LM End	7.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.597725°	39.597725°
				-121.787257°	-121.787257°
DWR ID	1628				

Comment Code

Inspector Comment

DS_ID:1628
 FS_ID:51970
 EP_NO: N/A
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 5/16/2017 LS inlet is almost completely buried. Nothing visible on the WS. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag)11/15/2016 Appears abandoned and should be done so properly. (DWR Sutter Yard- A Freitag)5/11/2016 Possibly an abandoned crossing. LS inlet was over 50% buried and nothing was found on the WS.8/4/2015 LS pipe end filled about 50% with soil and WS pipe end is buried.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe filled with soil and outlet/appurtenances are buried.
 FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 8.5 feet below the crown. Flap gate on the waterside (WS). Concrete "U" shaped headwall on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1990 (HLM 7.70). USACE Sacramento O&M Manual, Unit 515 - Upper Butte Creek - Part No. 1, April 1955, (Station 576+72). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 2, April 1950, (Station 576+72.4)].
 FS Date: 5/31/2017 1:58:05 PM

Photo 1 of 2 : UCIP_FA_2019_51970_67970.jpg



Headwall at LS toe.

LM Start	7.58	Rating **	M	Issue No.	911 (cont)
LM End	7.58	Issue Type +	Ma	Location *	

Photo 2 of 2 : UCIP_FA_2019_51970_67969.jpg



Headwall at LS 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	9.08	Rating **	M	Issue No.	913 (cont)
LM End	9.08	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.579908°	39.579908°
				-121.802790°	-121.802790°
DWR ID	1631				
Comment Code					
Inspector Comment					
<p>DS_ID:1631 FS_ID:51975 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/16/2017 Abandoned and needs to be done so properly. (DWR Sutter Yard- A Freitag)11/15/2016 Abandoned. (DWR Sutter Yard- A Freitag)5/11/2016 Abandoned pipe.8/4/2015 Abandoned pipe. Casey Wilder has started the steps to have the pipe properly abandoned and removed from the levee.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Need to confirm proper abandonment of pipe. Pipe should be plugged on LS. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 11.5 feet below the crown. Pump located on the waterside (WS). Distribution box at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1990 (HLM 9.21). USACE Sacramento O&M Manual, Unit 515 - Upper Butte Creek - Part No. 1, April 1955, (Station 655+68). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950, (Station 655+68.2)]. FS Date: 5/31/2017 2:09:46 PM</p>					

Photo 3 of 3 : UCIP_FA_2019_51975_67974.jpg



Pipe at bottom of concrete distribution box.

* 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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	9.54	Rating **	M	Issue No.	5
LM End	10.33	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.574837°	39.567892°	
			-121.807913°	-121.819283°	
DWR ID	DWR_MA0005_01_s_2012_5				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2019_MA0005_196_5_20190822_00002.jpg



View of the agricultural ditch along the landside toe.

LM Start	10.04	Rating **	M	Issue No.	918
LM End	10.04	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		39.570596°	39.570596°	
			-121.815215°	-121.815215°	
DWR ID	1633				
Comment Code					
Inspector Comment					
<p>DS_ID:1633 FS_ID:51980 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/16/2017 Abandoned crossing and needs to be done so properly. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/15/2016 Abandoned. (DWR Sutter Yard-AFreitag)5/11/2016 Abandoned crossing.8/4/2015 Abandoned pipe. Casey Wilder has started the steps to have the pipe properly abandoned and removed from the levee.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe and headwall buried on WS, no access to slide gate. FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, 12.5 feet below the crown. Slide gate on the waterside (WS). Flap gate and headwall on the landside (LS). Concrete headwall at the WS toe. [Additional Reference(s): DWR Levee Log, 1990 (HLM 10.19). USACE Sacramento O&M Manual, Unit 515 - Upper Butte Creek - Part No. 1, April 1955, (Station 706+00). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950]. FS Date: 5/31/2017 2:15:33 PM</p>					

Photo 1 of 1 : UCIP_FA_2019_51980_67986.jpg



Flap gate and headwall at LS toe in irrigation or drainage ditch.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	10.26	Rating **	M	Issue No.	919 (cont)
LM End	10.26	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.568523 °	39.568523 °
				-121.818232 °	-121.818232 °
DWR ID	1634				
Comment Code					
Inspector Comment					
DS_ID:1634 FS_ID:51981 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/16/2017 Abandoned- needs to be done so properly. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/15/2016 Abandoned. (DWR Sutter Yard- AFreitag)5/11/2016 Abandoned crossing.8/4/2015 Abandoned pipe. Casey Wilder has started the steps to have the pipe properly abandoned and removed from the levee.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, 14.5 feet below the crown. Slide gate on the waterside (WS) on concrete headwall. Flap gate on the landside (LS). [Additional Reference(s): DWR Levee Log, 1990 (HLM 10.41). USACE Sacramento O&M Manual, Unit 515 - Upper Butte Creek - Part No. 1, April 1955, (Station 717+50). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950]. FS Date: 5/31/2017 2:16:48 PM					

Photo 3 of 3 : UCIP_FA_2019_51981_67987.jpg



Headwall and slide gate on WS toe.

LM Start	10.37	Rating **	M	Issue No.	26
LM End	10.37	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.567541 °	39.567541 °
				-121.819786 °	-121.819786 °
DWR ID	DWR_MA0005_01_s_2016_26				
Comment Code					
EQ : Equipment					
Inspector Comment					
Abandoned motorhomes and farm equipment should be removed from the landside toe.					

Photo 1 of 1 : FA_2019_MA0005_196_26_20190822_00007.jpg



5/5/2016: Remove abandoned motorhome and equipment from LS 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	11.38	Rating **	M	Issue No.	64
LM End	11.38	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.556540°	39.556540°	
			-121.832302°	-121.832302°	
DWR ID	DWR_MA0005_01_s_2019_64				
Comment Code					
DE : Debris					
Inspector Comment					
Remove concrete and steel pipes from the landside slope and toe.					

No Photos

LM Start	11.85	Rating **	M	Issue No.	6
LM End	13.64	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.551235°	39.531462°	
			-121.837697°	-121.856165°	
DWR ID	DWR_MA0005_01_s_2012_6				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2019_MA0005_196_6_20190822_00003.jpg



View of the agricultural ditch along the landside 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	11.85	Rating **	M	Issue No.	926
LM End	11.85	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		39.551212°	39.551212°	
			-121.837724°	-121.837724°	
DWR ID	1747				
Comment Code					
Inspector Comment					
<p>DS_ID:1747 FS_ID:51996 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 5/16/2017 Pipe is buried on both sides of the levee. Unable to locate. (DWR Sutter Yard- AFreitag)11/15/2016 Buried on both sides of Levee. (DWR Sutter Yard - AFreitag)5/11/2016 Buried pipe.8/4/2015 Pipe is buried on both ends.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/31/2012 Pipe burried on both LS and WS. FIELD_STRUCT_DESC: 48-inch corrugated metal irrigation pipe through the levee, at an unknown depth, indicator found. 48-inch corrugated metal riser and a sparring water meter/irrigation structure on the landside (LS). 4-foot by 6-foot concrete distribution box at the LS toe. [Additional Reference(s): USACE Sacramento O&M Manual, Unit 515 - Upper Butte Creek - Part No. 1, April 1955, (Station 836+86). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 4, April 1950, (Station 836+85.70)]. FS Date: 5/31/2017 2:34:41 PM</p>					

Photo 1 of 1 : UCIP_FA_2019_51996_68025.jpg



Buried pipe at concrete box, LS toe.

LM Start	13.69	Rating **	M	Issue No.	69
LM End	13.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		39.531032°	39.531032°	
			-121.856977°	-121.856977°	
DWR ID	DWR_MA0005_01_s_2017_69				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA_2019_MA0005_196_69_20190822_00031.jpg



Repair the erosion along the landside slope and toe.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/23/2019 10/23/2019	Makar Sokol

LM Start	14.46	Rating **	M	Issue No.	927
LM End	14.46	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.522200°	39.522200°
				-121.865592°	-121.865592°
DWR ID	1639				
Comment Code					
Inspector Comment					
DS_ID:1639 FS_ID:51999 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/16/2017 Soil still eroded away from the WS wing walls. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/15/2016 No soil supporting the WS wing walls. (DWR Sutter Yard- AFreitag)5/11/2016 Still no soil supporting the WS wing walls and apron. WS vegetation was thinner and not a problem this time.8/4/2015 No soil supporting the WS wing walls at the WS pipe end. WS pipe end is also being overgrown with vegetation and should be cleared back.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/31/2012 Soil under Concrete wing walls on WS toe has been eroded. No soil supporting wing walls. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on the landside (LS) and the WS ends. [Additional Reference(s): DWR Levee Log, 1990 (HLM 14.66). USACE Sacramento O&M Manual 515, April 1955, (Station 978+25). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 5, April 1950, (Station 978+24.95)]. FS Date: 5/31/2017 2:39:05 PM					

Photo 1 of 3 : UCIP_FA_2019_51999_68033.jpg



Headwall at inlet on LS toe.

LM Start	14.46	Rating **	M	Issue No.	927 (cont)
LM End	14.46	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2019_51999_68032.jpg



CMP pipe, flap gate, and headwall on WS 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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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2019 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0005

Waterway		Bank	Unit Miles	
Unit No. 02 Butte Creek		Right	16.27	
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M *	
Date of Inspection	5/14/2019 - 5/14/2019		10/23/2019 - 10/23/2019	
DWR Inspector	Makar Sokol		Makar Sokol	
Accompanied By	Shawn Freitag Sutter Maintenance Yard		Bob Duffey Sutter Maintenance Yard	

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	1.21	Rating **	M	Issue No.	1
LM End	1.59	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.529933 °	39.534102 °
				-121.861563 °	-121.856947 °
DWR ID	DWR_MA0005_02_s_2012_1				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2019_MA0005_197_1_20190822_00001.jpg



View of the agricultural ditch along the landside toe.

LM Start	1.60	Rating **	C	Issue No.	69
LM End	1.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.534170 °	39.534170 °
				-121.856853 °	-121.856853 °
DWR ID	DWR_MA0005_02_s_2017_69				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the debris from the waterside toe.					

No Photos

LM Start	1.86	Rating **	M	Issue No.	48
LM End	1.86	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.536915 °	39.536915 °
				-121.853669 °	-121.853669 °
DWR ID	DWR_MA0005_02_f_2016_48				
Comment Code					
EQ : Equipment					
Inspector Comment					
Remove pile of soil and rocks and ag equipment from the landside toe of the levee.					

Photo 1 of 1 : FA_2019_MA0005_197_48_20190822_00023.jpg



View of soil pile, rocks, and ag equipment.

* 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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	1.91	Rating **	U	Issue No.	83
LM End	1.91	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.537455 °	39.537455 °
				-121.853061 °	-121.853061 °
DWR ID	1645				
Comment Code					
Inspector Comment					
<p>DS_ID:1645 FS_ID:53009 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/5/2018 Unable to see pipe on waterside due to high water level in the creek. Erosion is present around headwall on LS. Screw gate on LS blocked with silt approximately halfway in height. (O.Yakimov - DWR UCIP) 5/18/2017 LS erosion still present. Ws flap gate has been completely buried by sediment after the high water flows through the area. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 LS erosion still present and is into the prism of the levee. WS flap gate was still mostly buried and non-operational. (DWR Sutter Yard- AFreitag)5/23/2016 The tree that was overgrowing the WS flapgate has been removed. Flap gate was half buried and unable to open. Erosion on the LS is still present. (DWR Sutter Yard - afreitag)7/28/2015 LS inlet is underwater but there appears to be erosion behind the LS headwall. WS pipe end and flap gate are completely overgrown and inaccessible for inspection. (DWR Sutter Yard - afreitag)11/25/2014 Tree is overgrowing the WS pipe outlet.. Needs to be trimmed back. (DWR Sutter Yard - afreitag)6/4/2014 Same as last inspection. (DWR Sutter Yard - afreitag)11/12/2013 Same as last inspection. (DWR Sutter Yard - afreitag)6/6/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/31/2012 Vegetation needs to be cleared from outlet. (DWR UCIP - wwylie) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 17 feet below the crown. Flap gate on the waterside (WS). Slide gate on the landside (LS) toe. Concrete headwalls at both the LS and the WS toes. [Additional Reference(s): DWR Levee Log, 1990 (HLM 1.92). USACE Sacramento O&M Manual, Unit 515 - Upper Butte Creek - Part No. 1, (Station 902+50). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 5, April 1950]. FS Date: 10/5/2018 11:20:19 AM</p>					

Photo 1 of 3 : UCIP_FA_2019_53009_68497.jpg



Flap gate on WS slope.

* 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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	3.38	Rating **	U	Issue No.	55
LM End	3.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.555027°	39.555027°
				-121.837555°	-121.837555°
DWR ID	DWR_MA0005_02_f_2019_55				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : FA_2019_MA0005_197_55_20191028_00099.jpg



View of sloughing on the landside slope. Fall 2019.

LM Start	3.39	Rating **	C	Issue No.	82
LM End	3.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.555170°	39.555170°
				-121.837392°	-121.837392°
DWR ID	DWR_MA0005_02_s_2019_82				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the trees from the waterside slope and 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	5.84	Rating **	M	Issue No.	81
LM End	5.84	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.582199°	39.582199°
				-121.808001°	-121.808001°
DWR ID	DWR_MA0005_02_s_2019_81				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					
Crown should be graded to remove washboard on the road surface.					

No Photos

LM Start	5.91	Rating **	M	Issue No.	34
LM End	5.91	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.583052°	39.583052°
				-121.807423°	-121.807423°
DWR ID	DWR_MA0005_02_f_2019_34				
Comment Code					
MA : Material					
Inspector Comment					
Remove broken metal and concrete pipes from the landside 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	6.47	Rating **	A/W	Issue No.	87
LM End	6.47	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP LMA Responsibility		39.589146°	39.589146°	
			-121.800463°	-121.800463°	
DWR ID	1654				
Comment Code					
Inspector Comment					
<p>DS_ID:1654 FS_ID:52049 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/23/2016 Crossing appears to be in good condition. 7/28/2015 Crossing appears in good condition. No noticeable issues to report. 11/24/2014 Same as last inspection. 6/04/2014 Same as last inspection. 11/12/2013 Same as last inspection. 6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.4 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls at both the landside (LS) and the WS toes. [Additional Reference(s): DWR Levee Log, 1990 (HLM 6.56). USACE Sacramento O&M Manual, Unit 515 - Upper Butte Creek - Part No. 1, April 1955, (Station 627+00). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950]. FS Date: 6/1/2017 1:10:07 PM</p>					

Photo 1 of 3 : UCIP_FA_2019_52049_68122.jpg



Flap gate on WS toe.

LM Start	6.47	Rating **	A/W	Issue No.	87 (cont)
LM End	6.47	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2019_52049_68121.jpg



Headwall on LS toe.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	6.47	Rating **	A/W	Issue No.	87 (cont)
LM End	6.47	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.589146°	39.589146°
				-121.800463°	-121.800463°
DWR ID	1654				
Comment Code					
Inspector Comment					
<p>DS_ID:1654 FS_ID:52049 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)5/23/2016 Crossing appears to be in good condition. 7/28/2015 Crossing appears in good condition. No noticeable issues to report. 11/24/2014 Same as last inspection. 6/04/2014 Same as last inspection. 11/12/2013 Same as last inspection. 6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.4 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls at both the landside (LS) and the WS toes. [Additional Reference(s): DWR Levee Log, 1990 (HLM 6.56). USACE Sacramento O&M Manual, Unit 515 - Upper Butte Creek - Part No. 1, April 1955, (Station 627+00). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950]. FS Date: 6/1/2017 1:10:07 PM</p>					

Photo 3 of 3 : UCIP_FA_2019_52049_68120.jpg



Headwall on LS toe.

LM Start	6.90	Rating **	C	Issue No.	65
LM End	6.90	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.594827°	39.594827°
				-121.797080°	-121.797080°
DWR ID	DWR_MA0005_02_s_2018_65				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

No Photos

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	7.74	Rating **	U	Issue No.	53
LM End	7.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.605088°	39.605088°
				-121.788569°	-121.788569°
DWR ID	DWR_MA0005_02_f_2016_53				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : FA_2019_MA0005_197_53_20190822_00025.jpg



View of the rodent holes along the landside slope.

LM Start	7.74	Rating **	U	Issue No.	53 (cont)
LM End	7.74	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2019_MA0005_197_53_20190822_00026.jpg



View of the rodent holes along the crown and waterside slope.

LM Start	7.75	Rating **	M	Issue No.	35
LM End	7.75	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.605205°	39.605205°
				-121.788453°	-121.788453°
DWR ID	DWR_MA0005_02_s_2015_35				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside slope.					

Photo 1 of 1 : FA_2019_MA0005_197_35_20190822_00012.jpg



View of the prunings along the landside slope.

* 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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	7.90	Rating **	M	Issue No.	58
LM End	7.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.607030 °	39.607030 °
				-121.787067 °	-121.787067 °
DWR ID	DWR_MA0005_02_f_2019_58				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	7.96	Rating **	M	Issue No.	62
LM End	7.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.607505 °	39.607505 °
				-121.786241 °	-121.786241 °
DWR ID	DWR_MA0005_02_f_2019_62				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	7.98	Rating **	M	Issue No.	13
LM End	7.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.607710 °	39.607710 °
				-121.785868 °	-121.785868 °
DWR ID	DWR_MA0005_02_s_2012_13				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 2 : FA_2019_MA0005_197_13_20190822_00006.jpg



View of the vehicle erosion along the slope.

* 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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	7.98	Rating **	M	Issue No.	13 (cont)
LM End	7.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.607710°	39.607710°
				-121.785868°	-121.785868°
DWR ID	DWR_MA0005_02_s_2012_13				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 2 of 2 : FA_2019_MA0005_197_13_20190822_00007.jpg



View of the vehicle erosion along the landside slope.

LM Start	8.00	Rating **	M	Issue No.	88
LM End	8.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.607802°	39.607802°
				-121.785597°	-121.785597°
DWR ID	1656				
Comment Code					
Inspector Comment					
DS_ID:1656 FS_ID:52052 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 LS inlet is almost completely full of soil. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 LS inlet almost completely full of soil. (DWR Sutter Yard- AFreitag)5/23/2016 LS end is almost completel full of soil.7/28/2015 Pipe is still over 3/4 full of soil. 11/24/2014 Same as last inspection.6/04/2014 Same as last inspection.11/12/2013 Same as last inspection.6/6/2013 Same as last inspection.10/31/2012 Pipe 3/4 full with soil on LS. FIELD_STRUCT_DESC: 18-inch corrugated metal drainage pipe through the levee at an unknown depth below the crown. Concrete headwall at the landside (LS) toe. Flap gate on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual, Unit 515 - Upper Butte Creek - Part No. 1, April 1955, pipe referenced only in USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 2, April 1950, (Station 550+42)]. FS Date: 6/1/2017 1:15:55 PM					

Photo 1 of 2 : UCIP_FA_2019_52052_68129.jpg



Flap gate at WS 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	8.00	Rating **	M	Issue No.	88 (cont)
LM End	8.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.607802°	39.607802°
				-121.785597°	-121.785597°
DWR ID	1656				
Comment Code					
Inspector Comment					
<p>DS_ID:1656 FS_ID:52052 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 LS inlet is almost completely full of soil. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 LS inlet almost completely full of soil. (DWR Sutter Yard- AFreitag)5/23/2016 LS end is almost completel full of soil.7/28/2015 Pipe is still over 3/4 full of soil. 11/24/2014 Same as last inspection.6/04/2014 Same as last inspection.11/12/2013 Same as last inspection.6/6/2013 Same as last inspection.10/31/2012 Pipe 3/4 full with soil on LS. FIELD_STRUCT_DESC: 18-inch corrugated metal drainage pipe through the levee at an unknown depth below the crown. Concrete headwall at the landside (LS) toe. Flap gate on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual, Unit 515 - Upper Butte Creek - Part No. 1, April 1955, pipe referenced only in USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 2, April 1950, (Station 550+42)]. FS Date: 6/1/2017 1:15:55 PM</p>					

Photo 2 of 2 : UCIP_FA_2019_52052_68128.jpg



Concrete headwall on LS toe.

LM Start	8.06	Rating **	M	Issue No.	40
LM End	8.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.608563°	39.608563°
				-121.785058°	-121.785058°
DWR ID	DWR_MA0005_02_f_2014_40				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA_2019_MA0005_197_40_20190822_00016.jpg



View of the vehicle slope instability along the landside slope.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	8.11	Rating **	A/W	Issue No.	89
LM End	8.11	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.609162°	39.609162°
				-121.784647°	-121.784647°
DWR ID	1662				
Comment Code					
Inspector Comment					
DS_ID:1662 FS_ID:52059 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/12/2016 Crossing appears to be in good condition.7/30/2015 Crossing is in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection..6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 16.3 feet below the crown. Flap gate on the waterside (WS). Concrete "U" shaped headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Log, 1990 (HLM 8.21). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 374+90). USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 13, April 1957]. FS Date: 6/1/2017 1:25:58 PM					

Photo 1 of 3 : UCIP_FA_2019_52059_68394.jpg



Concrete inlet on LS toe.

LM Start	8.11	Rating **	A/W	Issue No.	89 (cont)
LM End	8.11	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2019_52059_68393.jpg



Concrete inlet on LS 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	8.11	Rating **	A/W	Issue No.	89 (cont)
LM End	8.11	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.609162°	39.609162°
				-121.784647°	-121.784647°
DWR ID	1662				
Comment Code					
Inspector Comment					
DS_ID:1662 FS_ID:52059 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/12/2016 Crossing appears to be in good condition.7/30/2015 Crossing is in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection..6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 16.3 feet below the crown. Flap gate on the waterside (WS). Concrete "U" shaped headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Log, 1990 (HLM 8.21). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 374+90). USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 13, April 1957]. FS Date: 6/1/2017 1:25:58 PM					

Photo 3 of 3 : UCIP_FA_2019_52059_68392.jpg



Concrete outlet and flap gate on WS toe.

LM Start	8.33	Rating **	M	Issue No.	64
LM End	8.33	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.612199°	39.612199°
				-121.782925°	-121.782925°
DWR ID	DWR_MA0005_02_f_2019_64				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the large pile of prunings from the landside toe and easement.					

Photo 1 of 1 : FA_2019_MA0005_197_64_20191028_00100.jpg



View of a large pruning pile at the landside toe. Fall 2019.

* 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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	8.67	Rating **	M	Issue No.	47
LM End	8.67	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.616370°	39.616370°	
			-121.779779°	-121.779779°	
DWR ID	DWR_MA0005_02_s_2016_47				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside slope.					

Photo 1 of 1 : FA_2019_MA0005_197_47_20190822_00022.jpg



View of the prunings along the landside toe.

LM Start	8.76	Rating **	U	Issue No.	73
LM End	8.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		39.617598°	39.617598°	
			-121.779100°	-121.779100°	
DWR ID	DWR_MA0005_02_f_2019_73				
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_2019_MA0005_197_73_20191028_00101.jpg



View of two large rodent burrows on the landside slope and toe. Fall 2019.

* 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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	8.77	Rating **	A/W	Issue No.	90 (cont)
LM End	8.77	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.617747°	39.617747°
				-121.778964°	-121.778964°
DWR ID	1663				
Comment Code					
Inspector Comment					
<p>DS_ID:1663 FS_ID:52061 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/12/2016 Crossing appears to be in good condition. 7/30/2015 Crossing appears in good condition. No noticeable issues to report. 11/24/2014 Same as last inspection. 6/4/2014 Same as last inspection. 11/13/2013 Damaged pipe section was dug up and replaced. New WS flapgates with u-shaped wingwall installed on end of pipe. 6/6/2013 Same as last inspection. Plans have been made to repair during summer of 2013 before high water season. 11/01/2012 Pipe rusted through along bottom at WS outlet. Sink hole over pipe on WS berm. WS headwall eroded eternally around backside of headwall. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Log, 1990 (HLM 8.89). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, pipe is only referenced in USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 11, (Station 340+04)]. FS Date: 6/1/2017 1:27:46 PM</p>					

Photo 3 of 3 : UCIP_FA_2019_52061_68395.jpg



Concrete U shaped outlet and flap gate at WS of Berm.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	8.80	Rating **	M	Issue No.	91 (cont)
LM End	8.80	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.618163°	39.618163°
				-121.778745°	-121.778745°
DWR ID	1664				
Comment Code					
Inspector Comment					
<p>DS_ID:1664 FS_ID:52062 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 No LS slide gate but not sure its even needed. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 LS slide gate still missing. Rest of crossing appears in good condition. (DWR Sutter Yard- AFreitag)5/12/2016 LS inlet was unburied. Slide gate still missing7/30/2015 LS inlet is still buried.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 LS inlet is buried under soil and covered with brambles. Slide gate missing from LS. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS). Concrete headwall on the WS. Concrete headwall on the landside (LS), not found. [Additional Reference(s): DWR Levee Log, 1990 (HLM 8.93). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 338+04). USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 11, April 1957]. FS Date: 6/1/2017 1:29:34 PM</p>					

Photo 2 of 3 : UCIP_FA_2019_52062_68404.jpg



Brambles and soil over pipe at inlet.

LM Start	8.80	Rating **	M	Issue No.	91 (cont)
LM End	8.80	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2019_52062_68403.jpg



Concrete U shaped headwall and flap gate at WS toe.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	9.09	Rating **	M	Issue No.	45
LM End	9.09	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.622017°	39.622017°
				-121.776552°	-121.776552°
DWR ID	DWR_MA0005_02_s_2016_45				
Comment Code					
EQ : Equipment					
Inspector Comment					
Materials and equipment should be removed from the landside toe.					

Photo 1 of 1 : FA_2019_MA0005_197_45_20190822_00020.jpg



View of equipment and materials from the landside toe.

LM Start	9.12	Rating **	A/W	Issue No.	92
LM End	9.12	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.622377°	39.622377°
				-121.776327°	-121.776327°
DWR ID	1665				
Comment Code					
Inspector Comment					
<p>DS_ID:1665 FS_ID:52063 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/12/2016 Crossing appears to be in good condition.7/30/2015 Crossing appears in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Log, 1990 (HLM 9.25). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 321+20)]. FS Date: 6/1/2017 1:32:51 PM</p>					

Photo 1 of 3 : UCIP_FA_2019_52063_68413.jpg



Concrete U shaped headwall and flap gate on WS toe.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	9.12	Rating **	A/W	Issue No.	92 (cont)
LM End	9.12	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.622377°	39.622377°
				-121.776327°	-121.776327°
DWR ID	1665				
Comment Code					
Inspector Comment					
<p>DS_ID:1665 FS_ID:52063 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/12/2016 Crossing appears to be in good condition.7/30/2015 Crossing appears in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Log, 1990 (HLM 9.25). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 321+20)]. FS Date: 6/1/2017 1:32:51 PM</p>					

Photo 2 of 3 : UCIP_FA_2019_52063_68412.jpg



Concrete U shaped headwall on LS toe.

LM Start	9.12	Rating **	A/W	Issue No.	92 (cont)
LM End	9.12	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2019_52063_68411.jpg



Concrete U shaped headwall on LS toe.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	9.29	Rating **	C	Issue No.	79
LM End	9.29	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.624719°	39.624719°
				-121.775418°	-121.775418°
DWR ID	DWR_MA0005_02_s_2019_79				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

No Photos

LM Start	9.44	Rating **	M	Issue No.	77
LM End	9.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.626832°	39.626832°
				-121.775195°	-121.775195°
DWR ID	DWR_MA0005_02_s_2019_77				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	9.44	Rating **	M	Issue No.	93 (cont)
LM End	9.44	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.626894 °	39.626894 °
				-121.775180 °	-121.775180 °
DWR ID	1666				
Comment Code					
Inspector Comment					
<p>DS_ID:1666 FS_ID:52064 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 LS inlet half full of soil and WS flap gate half buried by sediment. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/14/2016 LS pipe inlet is half full of soil. WS flap gate shut but half buried by sediment. (DWR Sutter Yard-AFreitag)5/12/2016 Pipe is half full of soil.7/30/2015 Pipe is 1/4 to 1/2 full of soil still.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe 1/2 filled with soil. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS). Concrete "U" shaped headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Log, 1990 (HLM 9.57). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 304+10). USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 3, April 1957]. FS Date: 6/1/2017 1:34:12 PM</p>					

Photo 3 of 3 : UCIP_FA_2019_52064_68415.jpg



Concrete U-shaped headwall on LS toe.

LM Start	9.72	Rating **	M	Issue No.	56
LM End	9.72	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.630937 °	39.630937 °
				-121.774960 °	-121.774960 °
DWR ID	DWR_MA0005_02_f_2016_56				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : FA_2019_MA0005_197_56_20190822_00027.jpg



View of the prunings along the landside toe.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	9.81	Rating **	M	Issue No.	76
LM End	9.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.632002°	39.632002°
				-121.775759°	-121.775759°
DWR ID	DWR_MA0005_02_s_2019_76				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	9.82	Rating **	M	Issue No.	75
LM End	9.82	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.632176°	39.632176°
				-121.775914°	-121.775914°
DWR ID	DWR_MA0005_02_s_2019_75				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

No Photos

LM Start	10.22	Rating **	M	Issue No.	67
LM End	10.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.637030°	39.637030°
				-121.779870°	-121.779870°
DWR ID	DWR_MA0005_02_f_2018_67				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : FA_2019_MA0005_197_67_20190822_00032.jpg



View of the prunings along the landside 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	10.38	Rating **	M	Issue No.	3
LM End	10.38	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.639018 °	39.639018 °
				-121.781458 °	-121.781458 °
DWR ID	DWR_MA0005_02_s_2012_3				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : FA_2019_MA0005_197_3_20190822_00002.jpg



View of the prunings along the landside toe.

LM Start	10.47	Rating **	M	Issue No.	57
LM End	10.47	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.640156 °	39.640156 °
				-121.782397 °	-121.782397 °
DWR ID	DWR_MA0005_02_f_2016_57				
Comment Code					
DE : Debris					
Inspector Comment					
Remove broken concrete pipes and firewood from the landside toe.					

Photo 1 of 1 : FA_2019_MA0005_197_57_20190822_00028.jpg



View of the broken concrete pipes and firewood along the landside toe.

LM Start	10.63	Rating **	M	Issue No.	18
LM End	10.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.642061 °	39.642061 °
				-121.783861 °	-121.783861 °
DWR ID	DWR_MA0005_02_s_2012_18				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA_2019_MA0005_197_18_20190822_00008.jpg



View of the vehicle erosion along the slope of the levee.

* 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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	10.84	Rating **	C	Issue No.	68
LM End	10.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.644722°	39.644722°	
			-121.785945°	-121.785945°	
DWR ID	DWR_MA0005_02_f_2019_68				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree limbs from the landside slope and toe.					

No Photos

LM Start	10.90	Rating **	U	Issue No.	41
LM End	10.93	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.645508°	39.645508°	
			-121.786515°	-121.786742°	
DWR ID	DWR_MA0005_02_f_2014_41				
Comment Code					
FE : Fence					
Inspector Comment					
Remove or apply for permit for the fence along landside toe					

Photo 1 of 1 : FA_2019_MA0005_197_41_20190822_00017.jpg



View of the new fence along the landside toe.

LM Start	10.95	Rating **	M	Issue No.	59
LM End	10.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		39.646036°	39.646598°	
			-121.786944°	-121.787365°	
DWR ID	DWR_MA0005_02_f_2016_59				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	10.98	Rating **	U	Issue No.	60
LM End	11.04	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.646523°	39.647238°	
			-121.787310°	-121.787866°	
DWR ID	DWR_MA0005_02_f_2016_60				
Comment Code					
FE : Fence					
Inspector Comment					
Apply for permit or remove the fence from the landside toe.					

Photo 1 of 1 : FA_2019_MA0005_197_60_20190822_00029.jpg



Fence now extends along LS toe, parallel to the levee.

LM Start	11.05	Rating **	M	Issue No.	26
LM End	11.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.647400°	39.647400°	
			-121.787825°	-121.787825°	
DWR ID	DWR_MA0005_02_f_2012_26				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	11.10	Rating **	C	Issue No.	36
LM End	11.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.647913°	39.647913°	
			-121.788330°	-121.788330°	
DWR ID	DWR_MA0005_02_s_2015_36				
Comment Code					
TR : Tree or limb					
Inspector Comment					
The tree should be removed from the landside 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	11.12	Rating **	M	Issue No.	94
LM End	11.12	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.648169 °	39.648169 °
				-121.788541 °	-121.788541 °
DWR ID	1670				
Comment Code					
Inspector Comment					
DS_ID:1670 FS_ID:52069 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Appears abandoned- Slide gates in WS riser and LS distribution box missing. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Appears abandoned- Slide gates in WS riser and LS distribution box missing. (DWR Sutter Yard- AFreitag)5/11/2016 Crossing appears to be in good condition.7/30/2015 Crossing appears in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 New flap gate installed on WS end of pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, 9.7 feet below the crown. Slide gate in corrugated metal riser on the waterside (WS) slope. Flap gate on the WS toe. Slide gate in concrete distribution box on the landside (LS). [Additional Reference(s): DWR Levee Log, 1990 (HLM 11.27). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 215+65), 20-inch pipe referenced. USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 2, April 1957, drawing shows 18-inch pipe]. FS Date: 6/1/2017 1:43:12 PM					

Photo 1 of 3 : UCIP_FA_2019_52069_68429.jpg



CM riser on WS shoulder-missing slide gate.

LM Start	11.12	Rating **	M	Issue No.	94 (cont)
LM End	11.12	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_52069_68433.jpg



Distribution box on LS toe. Missing slide gate at pipe entrance.

* 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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	11.12	Rating **	M	Issue No.	95
LM End	11.12	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		39.648185°	39.648185°	
			-121.788563°	-121.788563°	
DWR ID	1671				
Comment Code					
Inspector Comment					
<p>DS_ID:1671 FS_ID:52070 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Abandoned- WS end still buried. (DWR Sutter Yard- AFreitag)11/14/2016 Appears abandoned. (DWR Sutter Yard- AFreitag)5/11/2016 Abandoned crossing7/30/2015 Abandoned crossing. Unable to locate the WS end of pipe.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe appears abandoned. It needs to be abandoned properly. FIELD_STRUCT_DESC: 30-inch corrugated metal irrigation pipe through the levee, 9.4 feet below the crown. Slide gate in a 42-inch corrugated metal riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). [Additional Reference(s): DWR Levee Log, 1990 (HLM 11.27). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 215+46)]. FS Date: 6/1/2017 1:45:09 PM</p>					

Photo 1 of 3 : UCIP_FA_2019_52070_68436.jpg



Pipe at concrete distribution box on LS toe.

LM Start	11.12	Rating **	M	Issue No.	95 (cont)
LM End	11.12	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_52070_68435.jpg



CM riser with slide gate on WS shoulder.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	11.12	Rating **	M	Issue No.	95 (cont)
LM End	11.12	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.648185 °	39.648185 °
				-121.788563 °	-121.788563 °
DWR ID	1671				
Comment Code					
Inspector Comment					
<p>DS_ID:1671 FS_ID:52070 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Abandoned- WS end still buried. (DWR Sutter Yard- AFreitag)11/14/2016 Appears abandoned. (DWR Sutter Yard- AFreitag)5/11/2016 Abandoned crossing7/30/2015 Abandoned crossing. Unable to locate the WS end of pipe.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe appears abandoned. It needs to be abandoned properly. FIELD_STRUCT_DESC: 30-inch corrugated metal irrigation pipe through the levee, 9.4 feet below the crown. Slide gate in a 42-inch corrugated metal riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). [Additional Reference(s): DWR Levee Log, 1990 (HLM 11.27). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 215+46)]. FS Date: 6/1/2017 1:45:09 PM</p>					

Photo 3 of 3 : UCIP_FA_2019_52070_68434.jpg



Concrete pipe at edge of creek on WS.

LM Start	11.23	Rating **	C	Issue No.	74
LM End	11.23	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.649644 °	39.649644 °
				-121.789677 °	-121.789677 °
DWR ID	DWR_MA0005_02_s_2019_74				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

No Photos

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	11.77	Rating **	M	Issue No.	6
LM End	11.77	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.650046°	39.657142°
				-121.789945°	-121.788690°
DWR ID	DWR_MA0005_02_s_2012_6				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2019_MA0005_197_6_20190822_00003.jpg



View of the ditch along the landside toe.

LM Start	11.77	Rating **	M	Issue No.	70
LM End	11.77	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.657115°	39.657115°
				-121.788703°	-121.788703°
DWR ID	DWR_MA0005_02_f_2018_70				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : FA_2019_MA0005_197_70_20190822_00035.jpg



View of the prunings along the landside toe.

LM Start	11.77	Rating **	M	Issue No.	71
LM End	11.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.657115°	39.657115°
				-121.788703°	-121.788703°
DWR ID	DWR_MA0005_02_f_2018_71				
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_2019_MA0005_197_71_20190822_00036.jpg



View of the rodent holes along the landside slope.

* 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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	12.37	Rating **	C	Issue No.	72
LM End	12.37	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.665142°	39.665142°
				-121.785103°	-121.785103°
DWR ID	DWR_MA0005_02_s_2019_72				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	12.63	Rating **	C	Issue No.	66
LM End	12.63	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.668912°	39.668912°
				-121.784376°	-121.784376°
DWR ID	DWR_MA0005_02_s_2019_66				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	12.70	Rating **	C	Issue No.	63
LM End	12.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.669856°	39.669856°
				-121.784095°	-121.784095°
DWR ID	DWR_MA0005_02_s_2019_63				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
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	+ 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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	12.80	Rating **	M	Issue No.	96
LM End	12.80	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP LMA Responsibility		39.670982°	39.670982°	
			-121.783103°	-121.783103°	
DWR ID	1673				
Comment Code					
Inspector Comment					
DS_ID:1673 FS_ID:54048 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/23/2019 (O. Magana - DWR UCIP)05/18/2017 Abandoned- needs to be done properly. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Abandoned- needs a cover for standpipe. (DWR Sutter Yard- AFreitag)05/11/2016 Abandoned crossing. Needs a cover fo the WS riser.08/03/2015 Crossing appears abandoned. Only the slide gate inside riser on the WS shoulder could be found. Riser needs a cover made for it.11/24/2014 Same as last inspection.06/04/2014 Same as last inspection.11/13/2013 Slide gate top and stem were repaired to make gate operational.06/06/2013 New slidegate is planned to be installed during summer of 2013.11/01/2012 Slide gate on WS shoulder bent and damaged (inoperable) Pipe appears abandoned. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1990 (HLM 12.98), USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 126+91)]. FS Date: 5/23/2019 5:20:37 PM					

Photo 1 of 3 : UCIP_FA_2019_54048_68465.jpg



Broken slide gate in CM riser on WS slope.

LM Start	12.80	Rating **	M	Issue No.	96 (cont)
LM End	12.80	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2019_54048_68464.jpg



Abandoned headwall on LS 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	12.80	Rating **	M	Issue No.	96 (cont)
LM End	12.80	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.670982°	39.670982°
				-121.783103°	-121.783103°
DWR ID	1673				
Comment Code					
Inspector Comment					
<p>DS_ID:1673 FS_ID:54048 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/23/2019 (O. Magana - DWR UCIP)05/18/2017 Abandoned- needs to be done properly. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Abandoned- needs a cover for standpipe. (DWR Sutter Yard- AFreitag)05/11/2016 Abandoned crossing. Needs a cover fo the WS riser.08/03/2015 Crossing appears abandoned. Only the slide gate inside riser on the WS shoulder could be found. Riser needs a cover made for it.11/24/2014 Same as last inspection.06/04/2014 Same as last inspection.11/13/2013 Slide gate top and stem were repaired to make gate operational.06/06/2013 New slidegate is planned to be installed during summer of 2013.11/01/2012 Slide gate on WS shoulder bent and damaged (inoperable) Pipe appears abandoned. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1990 (HLM 12.98), USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 126+91)]. FS Date: 5/23/2019 5:20:37 PM</p>					

Photo 3 of 3 : UCIP_FA_2019_54048_68463.jpg



Broken slide gate in CM riser on WS slope.

LM Start	12.83	Rating **	C	Issue No.	19
LM End	12.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.671239°	39.671239°
				-121.782486°	-121.782486°
DWR ID	DWR_MA0005_02_s_2012_19				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

No Photos

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	12.84	Rating **	M	Issue No.	9
LM End	12.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.671281°	39.671281°
				-121.782390°	-121.782389°
DWR ID	DWR_MA0005_02_s_2019_9				
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_2019_MA0005_197_9_20190822_00005.jpg



View of the animal burrows on the landside slope. Spring 2019.

LM Start	13.02	Rating **	M	Issue No.	44
LM End	13.02	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.673685°	39.673685°
				-121.781313°	-121.781313°
DWR ID	DWR_MA0005_02_s_2016_44				
Comment Code					
FW : Firewood					
Inspector Comment					
Remove the firewood from the landside toe.					

No Photos

LM Start	13.04	Rating **	M	Issue No.	5
LM End	13.04	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.673956°	39.673956°
				-121.781278°	-121.781278°
DWR ID	DWR_MA0005_02_s_2012_5				
Comment Code					
EQ : Equipment					
Inspector Comment					
Remove the equipment from the landside 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	13.06	Rating **	C	Issue No.	42
LM End	13.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.674219°	39.674219°
				-121.781188°	-121.781188°
DWR ID	DWR_MA0005_02_s_2016_42				
Comment Code					
FW : Firewood					
Inspector Comment					
Remove the firewood from the landside toe.					

No Photos

LM Start	13.15	Rating **	C	Issue No.	22
LM End	13.15	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.675311°	39.675311°
				-121.780371°	-121.780371°
DWR ID	DWR_MA0005_02_s_2013_22				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the waterside 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	13.40	Rating **	A/W	Issue No.	99
LM End	13.40	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP LMA Responsibility		39.678550 °	39.678550 °	
			-121.778339 °	-121.778339 °	
DWR ID	1679				
Comment Code					
Inspector Comment					
DS_ID:1679 FS_ID:52083 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/11/2016 Crossing appears to be in good condition. 8/3/2015 Crossing appears in good condition. No noticeable issues to report. 11/25/2014 Same as last inspection. 6/4/2014 Same as last inspection. 11/13/2013 Same as last inspection. 6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14.5 feet below the crown. Concrete "U" shaped headwall on the waterside (WS). Flap gate on the WS. [Additional Reference(s): DWR Levee Log, 1990 (HLM 13.61). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 93+78)]. FS Date: 6/1/2017 2:09:55 PM					

Photo 1 of 3 : UCIP_FA_2019_52083_68531.jpg



Inlet relocated after bridge replacement away from LS toe.

LM Start	13.40	Rating **	A/W	Issue No.	99 (cont)
LM End	13.40	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2019_52083_68530.jpg



Inlet 50-feet NW of levee crown.

* 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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	13.40	Rating **	A/W	Issue No.	99 (cont)
LM End	13.40	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			39.678550°	39.678550°
				-121.778339°	-121.778339°
DWR ID	1679				
Comment Code					
Inspector Comment					
DS_ID:1679 FS_ID:52083 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/11/2016 Crossing appears to be in good condition.8/3/2015 Crossing appears in good condition. No noticeable issues to report.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14.5 feet below the crown. Concrete "U" shaped headwall on the waterside (WS). Flap gate on the WS. [Additional Reference(s): DWR Levee Log, 1990 (HLM 13.61). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 93+78)]. FS Date: 6/1/2017 2:09:55 PM					

Photo 3 of 3 : UCIP_FA_2019_52083_68533.jpg



Concrete U-shaped headwall and flap gate at WS slope.

LM Start	13.54	Rating **	C	Issue No.	61
LM End	13.54	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.680579°	39.680579°
				-121.778267°	-121.778267°
DWR ID	DWR_MA0005_02_f_2016_61				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	13.76	Rating **	A/W	Issue No.	20
LM End	13.95	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.683630 °	39.686221 °	
			-121.777916 °	-121.779051 °	
DWR ID	DWR_MA0005_02_s_2012_20				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

No Photos

LM Start	13.78	Rating **	M	Issue No.	100
LM End	13.78	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		39.683896 °	39.683896 °	
			-121.778183 °	-121.778183 °	
DWR ID	1680				
Comment Code					
Inspector Comment					
DS_ID:1680 FS_ID:52084 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Unable to locate. (DWR Sutter Yard-AFreitag)11/14/2016 Unable to locate. (DWR Sutter Yard-AFreitag)5/11/2016 Unable to locate.8/3/2015 Unable to locate.11/25/2014 Unable to locate.6/4/2014 Same as last inspection. Unable to locate.11/13/2013 Unable to locate.6/6/2013 Boiler has been removed and pipe buried on LS. Unable to locate.11/01/2012 Pipe appears to be abandoned. FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee, 6.5 feet below the crown. Boiler attached to the landside (LS). [Additional Reference(s): DWR Levee Log, 1990 (HLM 13.99). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 73+27)]. FS Date: 6/1/2017 2:11:21 PM					

Photo 1 of 1 : UCIP_FA_2019_52084_68534.jpg



Pipe attached at boiler on LS 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	13.94	Rating **	M	Issue No.	101
LM End	13.94	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.685961 °	39.685961 °
				-121.779041 °	-121.779041 °
DWR ID	1681				
Comment Code					
Inspector Comment					
DS_ID:1681 FS_ID:52085 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Appears abandoned- if so needs to be done so properly. (DWR Sutter Yard- AFreitag)11/14/2016 Appears abandoned (DWR Sutter Yard- AFreitag)5/11/216 Abandoned crossing8/3/2015 Pipe still appears abandoned.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe appears to be abandoned. FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation pipe through the levee, 7.1 feet below the crown. Siphon breaker in a corrugated metal riser on the landside (LS) slope. One corrugated metal cutoff wall. Pipe is open on both ends. [Additional Reference(s): DWR Levee Log, 1990 (HLM 14.15). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 65+52)]. FS Date: 6/1/2017 2:12:13 PM					

Photo 1 of 1 : UCIP_FA_2019_52085_68535.jpg



CM riser with siphon breaker on LS shoulder.

LM Start	14.13	Rating **	M	Issue No.	43
LM End	14.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.688715 °	39.688715 °
				-121.778345 °	-121.778345 °
DWR ID	DWR_MA0005_02_f_2014_43				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
The landowner disked into the slope of the levee.					

Photo 1 of 1 : FA_2019_MA0005_197_43_20190822_00019.jpg



View of the tilling into the landside slope.

* 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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	14.33	Rating **	U	Issue No.	25
LM End	14.33	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.691580°	39.691580°	
			-121.779254°	-121.779254°	
DWR ID	DWR_MA0005_02_s_2012_25				
Comment Code					
BU : Building					
Inspector Comment					
Unpermitted structure.					

Photo 1 of 1 : FA_2019_MA0005_197_25_20190822_00011.jpg



View of the buildings at the landside toe.

LM Start	14.39	Rating **	C	Issue No.	38
LM End	14.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.692284°	39.692284°	
			-121.779394°	-121.779394°	
DWR ID	DWR_MA0005_02_s_2016_38				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the fallen trees from the waterside slope.					

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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	14.47	Rating **	M	Issue No.	103
LM End	14.47	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP LMA Responsibility		39.693406°	39.693406°	
			-121.779583°	-121.779583°	
DWR ID	1683				
Comment Code					
Inspector Comment					
<p>DS_ID:1683 FS_ID:52087 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 WS appears to be in good condition. LS inlet is across a ditch and inaccessible for inspection due to dense vegetation and being down a very steep slope. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/11/2016 Crossing appears to be in good condition.8/3/2015 Crossing appears in good condition. No noticeable issues to report.6/6/2013 Same as last inspection.11/13/2013 Same as last inspection.6/4/2014 Same as last inspection.11/25/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14.3 feet below the crown. Concrete "U" headwalls on both the landside (LS) and the waterside (WS). Flap gate on the WS. Inlet downhill from a concrete lined channel at the low point on the LS toe. [Additional Reference(s): DWR Levee Log, 1990 (HLM 14.69). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 36+85)]. FS Date: 6/1/2017 2:14:24 PM</p>					

Photo 1 of 2 : UCIP_FA_2019_52087_68541.jpg



Inlet at LS toe.

LM Start	14.47	Rating **	M	Issue No.	103 (cont)
LM End	14.47	Issue Type +	Ma	Location *	

Photo 2 of 2 : UCIP_FA_2019_52087_68540.jpg



Outlet at WS toe with flap gate and concrete U-shaped headwall.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	14.48	Rating **	M	Issue No.	78
LM End	14.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.693617°	39.693617°	
			-121.779498°	-121.779498°	
DWR ID	DWR_MA0005_02_f_2019_78				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	15.00	Rating **	M	Issue No.	104
LM End	15.00	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		39.700903°	39.700903°	
			-121.779039°	-121.779039°	
DWR ID	1685				
Comment Code					
Inspector Comment					
DS_ID:1685 FS_ID:52090 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. WS riser needs a cover. (DWR Sutter Yard- AFreitag)11/14/2016 Good condition- needs a cover for the riser. (DWR Sutter Yard- AFreitag)5/11/2016 Needs a cover for riser. The rest of the crossing appears to be in good condition.8/3/2015 Crossing appears in good condition but needs a cover made for the riser.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 42-inch steel irrigation pipe (siphon) through the levee, 10 feet below the crown. Slide gate in a 54-inch corrugated metal riser on the waterside (WS) slope. 5-foot by 8-foot concrete distribution box on the landside (LS). Two corrugated metal cutoff walls installed within the levee. [Additional Reference(s): DWR Levee Log, 1990 (HLM 15.22). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 8+30)]. FS Date: 6/1/2017 2:21:26 PM					

Photo 1 of 2 : UCIP_FA_2019_52090_68570.jpg



Concrete distribution box with slide gate on LS 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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	15.00	Rating **	M	Issue No.	104 (cont)
LM End	15.00	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.700903°	39.700903°
				-121.779039°	-121.779039°
DWR ID	1685				
Comment Code					
Inspector Comment					
DS_ID:1685 FS_ID:52090 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. WS riser needs a cover. (DWR Sutter Yard- AFreitag)11/14/2016 Good condition- needs a cover for the riser. (DWR Sutter Yard- AFreitag)5/11/2016 Needs a cover for riser. The rest of the crossing appears to be in good condition.8/3/2015 Crossing appears in good condition but needs a cover made for the riser.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 42-inch steel irrigation pipe (siphon) through the levee, 10 feet below the crown. Slide gate in a 54-inch corrugated metal riser on the waterside (WS) slope. 5-foot by 8-foot concrete distribution box on the landside (LS). Two corrugated metal cutoff walls installed within the levee. [Additional Reference(s): DWR Levee Log, 1990 (HLM 15.22). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 8+30)]. FS Date: 6/1/2017 2:21:26 PM					

Photo 2 of 2 : UCIP_FA_2019_52090_68569.jpg



CMP riser on WS shoulder with slide gate.

* 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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	15.48	Rating **	M	Issue No.	107
LM End	15.48	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.707569°	39.707569°
				-121.777705°	-121.777705°
DWR ID	16316				
Comment Code					
Inspector Comment					
<p>DS_ID:16316 FS_ID:52093 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. WS riser needs a cover. (DWR Sutter Yard- AFreitag)11/14/2016 Good condition- needs a cover for standpipe. (DWR Sutter Yard- AFreitag)5/11/2016 Needs a lcover for riser. The rest of the crossing appears in good condition.8/3/2015 Crossing appears in good condition but needs a cover made for the riser.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. Need to construct cover for top of standpipe.11/01/2012 Good candidate for video inspection. FIELD_STRUCT_DESC: 2 of 2: 54-inch corrugated metal irrigation pipe (siphon) through the levee, 17.8 feet below the crown. Slide gate in a 66-inch corrugated metal riser on the waterside (WS). Concrete headwall and irrigation ditch at the landside (LS) toe. Edgar Slough riser units in the floodway. [Additional Reference(s): DWR Levee Log, 1990 (HLM 15.71). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 132+00)]. FS Date: 6/1/2017 2:24:17 PM</p>					

Photo 1 of 3 : UCIP_FA_2019_52093_68579.jpg



Concrete headwall at LS toe.

LM Start	15.48	Rating **	M	Issue No.	107 (cont)
LM End	15.48	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_52093_68578.jpg



Related structure out in floodway.

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

Levee Inspection Report By Mile - Fall 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/23/2019 10/23/2019	Makar Sokol

LM Start	15.48	Rating **	M	Issue No.	107 (cont)
LM End	15.48	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.707569°	39.707569°
				-121.777705°	-121.777705°
DWR ID	16316				
Comment Code					
Inspector Comment					
<p>DS_ID:16316 FS_ID:52093 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. WS riser needs a cover. (DWR Sutter Yard- AFreitag)11/14/2016 Good condition- needs a cover for standpipe. (DWR Sutter Yard- AFreitag)5/11/2016 Needs a lcover for riser. The rest of the crossing appears in good condition.8/3/2015 Crossing appears in good condition but needs a cover made for the riser.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. Need to construct cover for top of standpipe.11/01/2012 Good candidate for video inspection. FIELD_STRUCT_DESC: 2 of 2: 54-inch corrugated metal irrigation pipe (siphon) through the levee, 17.8 feet below the crown. Slide gate in a 66-inch corrugated metal riser on the waterside (WS). Concrete headwall and irrigation ditch at the landside (LS) toe. Edgar Slough riser units in the floodway. [Additional Reference(s): DWR Levee Log, 1990 (HLM 15.71). USACE Sacramento O&M Manual, Unit 516 - Upper Butte Creek - Part No. 2, April 1960, (Station 132+00)]. FS Date: 6/1/2017 2:24:17 PM</p>					

Photo 3 of 3 : UCIP_FA_2019_52093_68577.jpg



66-inch CMP riser on WS shoulder.

LM Start	16.05	Rating **	M	Issue No.	39
LM End	16.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.714016°	39.714016°
				-121.782317°	-121.782317°
DWR ID	DWR_MA0005_02_f_2016_39				
Comment Code					
<p>A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.</p>					
Inspector Comment					

Photo 1 of 1 : FA_2019_MA0005_197_39_20190822_00015.jpg



View of the rodent holes along the landside slope.

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

Unit Cover Sheet

Fall 2019 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0005

Waterway		Bank	Unit Miles	
Unit No. 03 Little Chico Creek Diversion		Left	1.49	
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/14/2019 - 5/14/2019		10/23/2019 - 10/23/2019	
DWR Inspector	Makar Sokol		Makar Sokol	
Accompanied By	Shawn Freitag Sutter Maintenance Yard		Bob Duffey Sutter Maintenance Yard	

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 2019

Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Little Chico Creek Diversion	Left	1.49	10/23/2019 10/23/2019	Makar Sokol

LM Start	0.55	Rating **	A	Issue No.	1
LM End	0.55	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.724271°	39.724271°	
			-121.781058°	-121.781058°	
DWR ID	DWR_MA0005_03_f_2019_1				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Vegetation is well maintained on both landside and waterside slopes.					

Photo 1 of 1 : FA_2019_MA0005_198_1_20191028_00001.jpg



View of well-maintained waterside slope, free of vegetation. Fall 2019.

* 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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