

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Butte County Department of Public Works

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Mud Creek	Right	6.80	11/17/2015 11/17/2015	Bob Duffey

LM Start		Rating **	A	Issue No.	2
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_NA0003_01_s _ 2013_2				
Action/Comments					
Inspector Comments: The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_NA0003_01_s _ 2013_6				
Action/Comments					
Inspector Comments: The LMA completed flood fight training in 2013.					

No Photos

LM Start		Rating **	A	Issue No.	10
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_NA0003_01_s _ 2013_10				
Action/Comments					
Inspector Comments: The LMA has the O&M manuals.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Mud Creek	Right	6.80	11/17/2015 11/17/2015	Bob Duffey

LM Start	1.73	Rating **	A	Issue No.	28
LM End	1.73	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.746098 °	39.746098 °
				-121.922672 °	-121.922672 °
DWR ID	DWR_NA0003_01_f_2015_28				
Action/Comments					
Add appropriate material and re-grade the levee to bring the crown above the design elevation. Inspector Comments: Butte County placed new gravel the crown roadway.					

Photo 1 of 1 : FA_2015_NA0003_64_28_20151118_00014.jpg



View of the new gravel on the crown roadway.

LM Start	3.72	Rating **	A	Issue No.	30
LM End	3.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.768155 °	39.768155 °
				-121.902420 °	-121.902420 °
DWR ID	DWR_NA0003_01_f_2015_30				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Butte County sprayed the vegetation and dragged both the slopes.					

Photo 1 of 1 : FA_2015_NA0003_64_30_20151118_00016.jpg



View of no vegetation on both slopes.

LM Start	4.26	Rating **	M	Issue No.	5
LM End	4.32	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.773257 °	39.773969 °
				-121.895618 °	-121.895078 °
DWR ID					
Action/Comments					
Inspector Comments: 2011 - Two large erosion scallops at the toe from a rotational failure. Deep cracks along the slope indicate the potential for further failures. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: MUD_4-4_R]					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Unit No. 01 Mud Creek	Right	6.80	11/17/2015 11/17/2015	Bob Duffey

LM Start	4.27	Rating **	M	Issue No.	33
LM End	4.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.773398 °	39.773398 °
				-121.895765 °	-121.895765 °
DWR ID	DWR_NA0003_01_f _ 2015_33				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Repair the rodent holes along the landside slope.					

Photo 1 of 1 : FA_2015_NA0003_64_33_20151118_00018.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 N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Mud Creek	Left	7.96	11/17/2015 11/17/2015	Bob Duffey

LM Start	2.57	Rating **	A	Issue No.	9
LM End	2.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.770788 °	39.770788 °
				-121.899552 °	-121.899552 °
DWR ID	DWR_NA0003_02_f_2015_9				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Butte County sprayed and dragged both slope.					

Photo 1 of 1 : FA_2015_NA0003_65_9_20151118_00006.jpg



View of the no vegetation on both slopes.

LM Start	3.52	Rating **	M	Issue No.	10
LM End	3.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.760582 °	39.760582 °
				-121.910303 °	-121.910303 °
DWR ID	DWR_NA0003_02_f_2015_10				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: Repair the vehicle erosion along the landside slope.					

Photo 1 of 1 : FA_2015_NA0003_65_10_20151118_00007.jpg



View of the vehicle erosion along the landside slope.

LM Start	4.42	Rating **	M	Issue No.	11
LM End	4.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.751120 °	39.751120 °
				-121.915977 °	-121.915977 °
DWR ID	DWR_NA0003_02_f_2015_11				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: Repair the rodent holes along the landside slope.					

Photo 1 of 1 : FA_2015_NA0003_65_11_20151118_00008.jpg



View of the rodent holes along the landside slope.

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

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Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Butte County Department of Public Works

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Mud Creek	Left	7.96	11/17/2015 11/17/2015	Bob Duffey

LM Start	4.55	Rating **	A/W	Issue No.	8
LM End	4.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.749639 °	39.749639 °
				-121.917188 °	-121.917188 °
DWR ID	DWR_NA0003_02_f_2013_8				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Butte County has been grouting the rodent holes.					

Photo 1 of 2 : FA_2015_NA0003_65_8_20150910_00005.jpg



View of the bait station placed by the rodent hole.

Photo 2 of 2 : FA_2015_NA0003_65_8_20151118_00009.jpg



View of the bait station by the rodent holes.

LM Start	4.55	Rating **	A/W	Issue No.	8 (cont)
LM End	4.55	Issue Type +	Ma	Location *	LS

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A Channel Slough	Left	0.26	11/17/2015 11/17/2015	Bob Duffey

LM Start	0.11	Rating **	A	Issue No.	17
LM End	0.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.734465 °	39.734465 °
				-121.929417 °	-121.929417 °
DWR ID	DWR_NA0003_02A_f _ 2015_17				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Butte County sprayed and dragged both slopes.					

Photo 1 of 1 : FA_2015_NA0003_66_17_20151118_00001.jpg



View of no vegetation on both slopes.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sycamore and Sheep Hollow Creeks	Right	4.05	09/22/2015 09/22/2015	Bob Duffey

LM Start	0.02	Rating **	M	Issue No.	12
LM End	0.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.785970 °	39.785970 °
				-121.882797 °	-121.882797 °
DWR ID	DWR_NA0003_03_f_2015_12				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Repair the erosion on both slopes caused by motorcycle traffic.					

Photo 1 of 1 : FA_2015_NA0003_67_12_20151013_00002.jpg



View of the erosion on both slopes caused by motorcycle traffic.

LM Start	0.07	Rating **	M	Issue No.	3
LM End	0.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.786068 °	39.786068
				-121.881828 °	-121.881828
DWR ID	DWR_NA0003_03_s_2012_3				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: Repair the erosion on landside slope caused by motorcycle traffic.					

Photo 1 of 1 : FA_2015_NA0003_67_3_20150910_00001.jpg



View of the erosion caused by motorcycles on the land side slope.

LM Start	1.11	Rating **	A	Issue No.	13
LM End	1.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.780317 °	39.780317 °
				-121.865255 °	-121.865255 °
DWR ID	DWR_NA0003_03_f_2015_13				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Butte Co. sprayed and dragged both slopes.					

Photo 1 of 1 : FA_2015_NA0003_67_13_20151013_00004.jpg



View of both slopes with acceptable vegetation.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sycamore and Dry Creeks	Right	2.86	09/22/2015 09/22/2015	Bob Duffey

LM Start	1.16	Rating **	M	Issue No.	17
LM End	1.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.777128 °	39.777580 °
				-121.854763 °	-121.855612 °
DWR ID	DWR_NA0003_04_f _ 2015_17				
Action/Comments					
Trim trees to at least five feet above ground level. Inspector Comments: Remove the trees that are overhanging the levee slope.					

Photo 1 of 1 : FA_2015_NA0003_68_17_20151013_00004.jpg



View of the trees overhanging the levee slope.

LM Start	1.62	Rating **	A	Issue No.	18
LM End	1.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.778842 °	39.778842 °
				-121.862935 °	-121.862935 °
DWR ID	DWR_NA0003_04_f_2015_18				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Butte Co. sprayed and dragged oh slopes.					

Photo 1 of 1 : FA_2015_NA0003_68_18_20151013_00005.jpg



View of the slope with acceptable vegetation.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Big Chico Diversion	Left	1.85	09/23/2015 09/23/2015	Bob Duffey

LM Start	0.21	Rating **	M	Issue No.	4
LM End	0.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.761957 °	39.761892 °
				-121.792867 °	-121.793705 °
DWR ID	DWR_NA0003_05_f _ 2014_4				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Remove the vegetation from the waterside slope.					

Photo 1 of 2 : FA_2015_NA0003_69_4_20150910_00002.jpg



View of the vegetation along the waterside slope.

LM Start	0.21	Rating **	M	Issue No.	4 (cont)
LM End	0.26	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2015_NA0003_69_4_20151013_00004.jpg



View of the vegetation along the waterside slope.

LM Start	0.34	Rating **	M	Issue No.	3
LM End	0.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.761633 °	39.761117 °
				-121.795155 °	-121.796464 °
DWR ID	DWR_NA0003_05_f_2013_3				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Remove the vegetation from the landside slope and toe.					

Photo 1 of 2 : FA_2015_NA0003_69_3_20150910_00001.jpg



View of the vegetation along the landside slope and 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Big Chico Diversion	Left	1.85	09/23/2015 09/23/2015	Bob Duffey

LM Start	0.34	Rating **	M	Issue No.	3 (cont)
LM End	0.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.761633 °	39.761117 °
				-121.795155 °	-121.796464 °
DWR ID	DWR_NA0003_05_f _ 2013_3				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove the vegetation from the landside slope and toe.					

Photo 2 of 2 : FA_2015_NA0003_69_3_20151013_00008.jpg



View of the vegetation along the landside slope and toe.

LM Start	0.89	Rating **	A/W	Issue No.	6
LM End	0.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.764397 °	39.764397 °
				-121.803335 °	-121.803335 °
DWR ID	DWR_NA0003_05_f_2014_6				
Action/Comments					
Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberry is not completely blocking the visibility.					

Photo 1 of 1 : FA_2015_NA0003_69_6_20150910_00003.jpg



View of the elderberry along the landside toe.

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