

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/24/2016 03/30/2016	Sterling York

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			o	o
DWR ID	DWR_MA0003_01_s_2013_4				
Comment Code					
Inspector Comment					
Sutter Yard has a copy of the O&M manuals.					

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			o	o
DWR ID	DWR_MA0003_01_s_2013_6				
Comment Code					
Inspector Comment					
The Sutter Yard has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			o	o
DWR ID	DWR_MA0003_01_s_2013_7				
Comment Code					
Inspector Comment					
The Sutter Yard has received flood fight training.					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/24/2016 03/30/2016	Sterling York

LM Start	<b>0.01</b>	Rating **	M	Issue No.	<b>21</b>
LM End	<b>3.49</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.897986°	38.929237°	
			-121.617809°	-121.588615°	
DWR ID	DWR_MA0003_01_s_2016_21				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	<b>0.05</b>	Rating **	C	Issue No.	<b>9</b>
LM End	<b>0.05</b>	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		38.897878°	38.897878°	
			-121.617088°	-121.617088°	
DWR ID	DWR_MA0003_01_s_2015_9				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	<b>0.33</b>	Rating **	M	Issue No.	<b>19</b>
LM End	<b>3.49</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.900054°	38.929240°	
			-121.612805°	-121.588615°	
DWR ID	DWR_MA0003_01_s_2016_19				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/24/2016 03/30/2016	Sterling York

LM Start	<b>0.78</b>	Rating **	M	Issue No.	<b>140</b>
LM End	<b>0.78</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.903339 °	38.903339 °
				-121.606209 °	-121.606209 °
DWR ID	DWR_MA0003_01_f_2014_140				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There is a rodent hole on the landward toe road approximately 6" in diameter.					

Photo 1 of 2 : SP\_2016\_MA0003\_195\_140\_20160307\_00011.jpg



This photo was taken from the landward levee slope near the toe road facing north looking at an approximately 6" rodent hole. Fall 2014.

LM Start	<b>0.78</b>	Rating **	M	Issue No.	<b>140 (cont)</b>
LM End	<b>0.78</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2016\_MA0003\_195\_140\_20160307\_00012.jpg



This is another photo of the rodent hole to show its relationship to levee toe, toe road, and drainage ditch. Fall 2014.

LM Start	<b>1.51</b>	Rating **	M	Issue No.	<b>13</b>
LM End	<b>1.51</b>	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.904680 °	38.904680 °
				-121.594229 °	-121.594229 °
DWR ID	DWR_MA0003_01_s_2015_13				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0003\_195\_13\_20160307\_00006.jpg



Photo of a depression in the crown, taken looking at the landside.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/24/2016 03/30/2016	Sterling York

LM Start	<b>1.77</b>	Rating **	M	Issue No.	<b>14</b>
LM End	<b>1.77</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.907025 °	38.907025 °
				-121.590375 °	-121.590375 °
DWR ID	DWR_MA0003_01_s_2015_14				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					



LM Start	<b>2.18</b>	Rating **	M	Issue No.	<b>15</b>
LM End	<b>2.18</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.911869 °	38.911869 °
				-121.586093 °	-121.586093 °
DWR ID	DWR_MA0003_01_s_2015_15				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	<b>2.18</b>	Rating **	A/W	Issue No.	<b>18</b>
LM End	<b>2.18</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.911869 °	38.911869 °
				-121.586093 °	-121.586093 °
DWR ID	DWR_MA0003_01_s_2015_18				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/24/2016 03/30/2016	Sterling York

LM Start	<b>3.20</b>	Rating **	M	Issue No.	<b>20</b>
LM End	<b>3.20</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.925909 °	38.925909 °	
			-121.585401 °	-121.585401 °	
DWR ID	DWR_MA0003_01_s_2015_20				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0003\_195\_20\_20160307\_00010.jpg



Photo of slope on the landside facing upstream, areas with little vegetation appear to have eroded leaving the crown smaller.

LM Start	<b>3.75</b>	Rating **	M	Issue No.	<b>12</b>
LM End	<b>4.47</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.932157 °	38.942033 °	
			-121.591031 °	-121.587681 °	
DWR ID	DWR_MA0003_01_s_2016_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_MA0003\_195\_12\_20160404\_00028.jpg



Vegetation on the landside looking downstream.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/24/2016 03/30/2016	Sterling York

LM Start	<b>3.75</b>	Rating **	M	Issue No.	<b>17</b>
LM End	<b>4.47</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.932157 °	38.942039 °	
			-121.591031 °	-121.587680 °	
DWR ID	DWR_MA0003_01_s_2016_17				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					



Vegetation on waterside looking downstream.

LM Start	<b>4.15</b>	Rating **	M	Issue No.	<b>1</b>
LM End	<b>4.18</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2015 USACE Erosion Survey, DRAFT		38.937451 °	38.937937 °	
			-121.588512 °	-121.588471 °	
DWR ID	DWR_MA0003_01_s_2016_1				
Comment Code					
Inspector Comment					
2013 - Minor toe scour causing gradual erosion of bank slope. Site is within ecological reserve. 2015: Last observed in 2013. [2015 Site ID: FHR_12-3_R]					



USACE 2013 Photo #1

LM Start	<b>4.15</b>	Rating **	M	Issue No.	<b>1 (cont)</b>
LM End	<b>4.18</b>	Issue Type +	Ma	Location *	WS



USACE 2013 Photo #2

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

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016**

**Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	03/24/2016 03/30/2016	Sterling York

LM Start	<b>4.71</b>	Rating **	M	Issue No.	<b>2</b>
LM End	<b>4.76</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.945188 °	38.945958 °
				-121.586096 °	-121.586394 °
DWR ID	DWR_MA0003_01_s_2016_2				
Comment Code					
Inspector Comment					
2013 - Minor toe scour causing gradual erosion into the bank slope. 2015: Last observed in 2013. [2015 Site ID: FHR_12-8_R]					

Photo 1 of 2 : SP\_2016\_MA0003\_195\_2\_20160307\_00003.jpg



USACE 2013 Photo #1

LM Start	<b>4.71</b>	Rating **	M	Issue No.	<b>2 (cont)</b>
LM End	<b>4.76</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2016\_MA0003\_195\_2\_20160307\_00004.jpg



USACE 2013 Photo #2

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