

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2016 Levee Inspection Results

Solano County Public Works Mellin Levee

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

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

* **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

Spring 2016 Levee Inspection Results

Solano County Public Works Mellin Levee

Waterway		Bank	Unit Miles
Unit No. 01 Mellin Levee		Right	0.59

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/24/2016 - 3/24/2016			
DWR Inspector	Richard Willoughby			
Accompanied By	Thomas Pate Solano County Water Agency			

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 - Spring 2016

Solano County Public Works Mellin Levee

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Mellin Levee	Right	0.59	03/24/2016 03/24/2016	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			o	o
DWR ID	DWR_NA0012_01_s_2013_6				
Comment Code					
Inspector Comment					
LMA has a copy of the O & M Manuals on file at the office.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			o	o
DWR ID	DWR_NA0012_01_s_2013_7				
Comment Code					
Inspector Comment					
LMA has an adequate supply of flood fight supplies on hand.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	9
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			o	o
DWR ID	DWR_NA0012_01_s_2013_9				
Comment Code					
Inspector Comment					
Latest training Oct. 2014					

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 - Spring 2016

Solano County Public Works Mellin Levee

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Mellin Levee	Right	0.59	03/24/2016 03/24/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	8
LM End	0.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.174002°	38.180044°	
			-121.674269°	-121.681970°	
DWR ID	DWR_NA0012_01_s_2016_8				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	A/W	Issue No.	1
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.174051°	38.174051°	
			-121.674220°	-121.674221°	
DWR ID	DWR_NA0012_01_s_2012_1				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Control Arundo on waterside slope at the entrance to the levee.					

No Photos

LM Start	0.00	Rating **	M	Issue No.	11
LM End	0.59	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.174059°	38.180044°	
			-121.674253°	-121.681970°	
DWR ID	DWR_NA0012_01_s_2016_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

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 - Spring 2016

Solano County Public Works Mellin Levee

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Mellin Levee	Right	0.59	03/24/2016 03/24/2016	Richard Willoughby

LM Start	0.01	Rating **	M	Issue No.	13
LM End	0.28	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.174117 °	38.176805 °	
			-121.674333 °	-121.677893 °	
DWR ID	DWR_NA0012_01_s_2016_13				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.01	Rating **	M	Issue No.	3
LM End	0.49	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.174167 °	38.178960 °	
			-121.674312 °	-121.680600 °	
DWR ID	DWR_NA0012_01_s_2012_3				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0012_258_3_20160308_00003.jpg



Looking west at fence on waterside shoulder.

LM Start	0.10	Rating **	M	Issue No.	4
LM End	0.28	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.175115 °	38.176805 °	
			-121.675463 °	-121.677893 °	
DWR ID	DWR_NA0012_01_s_2012_4				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : SP_2016_NA0012_258_4_20160308_00004.jpg



Looking southeast at fence on landward 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 - Spring 2016

Solano County Public Works Mellin Levee

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Mellin Levee	Right	0.59	03/24/2016 03/24/2016	Richard Willoughby

LM Start	0.15	Rating **	M	Issue No.	10
LM End	0.59	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.175627 °	38.180044 °
				-121.676185 °	-121.681978 °
DWR ID	DWR_NA0012_01_s_2015_10				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					
Add appropriate gravel or road base.					

Photo 1 of 3 : SP_2016_NA0012_258_10_20160308_00007.jpg



Looking east at levee crown fall 2015.

LM Start	0.15	Rating **	M	Issue No.	10 (cont)
LM End	0.59	Issue Type +	Ma	Location *	CR

Photo 2 of 3 : SP_2016_NA0012_258_10_20160308_00008.jpg



Looking west at vegetation on levee crown at LM 0.00 to 0.10

LM Start	0.15	Rating **	M	Issue No.	10 (cont)
LM End	0.59	Issue Type +	Ma	Location *	CR

Photo 3 of 3 : SP_2016_NA0012_258_10_20160308_00009.jpg



Looking west at vegetation on levee crown at LM 0.28 to 0.59

* 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 - Spring 2016

Solano County Public Works Mellin Levee

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Mellin Levee	Right	0.59	03/24/2016 03/24/2016	Richard Willoughby

LM Start	0.57	Rating **	M	Issue No.	5
LM End	0.59	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.179783 °	38.180027 °
				-121.681648 °	-121.681978 °
DWR ID	DWR_NA0012_01_s_2012_5				
Comment Code					
FE : Fence					
Inspector Comment					
Animal corral.					

Photo 1 of 2 : SP_2016_NA0012_258_5_20160308_00005.jpg



Looking east at animal corral on waterside toe.

LM Start	0.57	Rating **	M	Issue No.	5 (cont)
LM End	0.59	Issue Type +	En	Location *	WS

Photo 2 of 2 : SP_2016_NA0012_258_5_20160308_00006.jpg



Looking west at animal corral on waterside toe.

LM Start	0.58	Rating **	M	Issue No.	2
LM End	0.58	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.179951 °	38.179951 °
				-121.681854 °	-121.681854 °
DWR ID	DWR_NA0012_01_f_2015_2				
Comment Code					
TA : Tank					
Inspector Comment					
Water tank for watering cattle stored at waterward toe.					

Photo 1 of 1 : SP_2016_NA0012_258_2_20160308_00002.jpg



Looking north at water tank stored at waterward toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Solano County Public Works Mellin Levee

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Mellin Levee	Right	0.59	03/24/2016 03/24/2016	Richard Willoughby

LM Start	0.58	Rating **	U	Issue No.	12
LM End	0.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.179966 °	38.179966 °
				-121.681872 °	-121.681872 °
DWR ID	DWR_NA0012_01_s_2015_12				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

LM Start	0.58	Rating **	U	Issue No.	12 (cont)
LM End	0.58	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP_2016_NA0012_258_12_20160308_00010.jpg



Looking at untrimmed tree on landward slope fall 2015.

Photo 2 of 2 : SP_2016_NA0012_258_12_20160308_00011.jpg



Looking east at untrimmed tree on landward slope spring 2015

* 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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