

**Flood Control Project Maintenance
Levee Inspections**

Fall 2013 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

NA0013	Overall LMA Rating	Total LMA Miles						
Merced Streams Group	U	6.40						
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	2.08	4.05	18.28	285.63%				
Trim / Thin Trees	0.02		0.02	0.31%				
Encroachments					2.05	0.02		
Animal Control	2.39	0.64	4.95	77.34%				
Erosion / Bank Caving		0.01	0.04	0.63%				
Cracking	0.01		0.01	0.16%				
Crown Surface / Depressions / Rutting	0.88		0.88	13.75%				
Repair Gates		0.01	0.04	0.63%				
<i>Supplemental</i>								
DWR Erosion Survey	0.18		0.18	2.81%				
LMA Totals:	5.56	4.71	24.40	381.25%	2.05	0.02	0.00	0.00

Unit No. 01 Black Rascal Diversion RB	Overall Unit Rating	Total Unit Miles						
NA0013	U	1.64						
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	0.37		0.37	22.56%				
Encroachments						0.01		
Crown Surface / Depressions / Rutting	0.34		0.34	20.73%				
Unit Totals:	0.71	0.00	0.71	43.29%	0.00	0.01	0.00	0.00

Unit No. 02 Black Rascal Diversion LB	Overall Unit Rating	Total Unit Miles						
NA0013	U	1.88						
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	0.21	0.92	48.94%				
Trim / Thin Trees	0.01		0.01	0.53%				
Encroachments					1.81	0.01		
Animal Control	0.86		0.86	45.75%				
Erosion / Bank Caving		0.01	0.04	2.13%				
Crown Surface / Depressions / Rutting	0.12		0.12	6.38%				
Repair Gates		0.01	0.04	2.13%				
<i>Supplemental</i>								
DWR Erosion Survey	0.01		0.01	0.53%				
Unit Totals:	1.08	0.23	2.00	106.38%	1.81	0.01	0.00	0.00

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Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin (cont.)

Unit No. 03 Owens Creek Diversion RB		Overall Unit Rating	Total Unit Miles						
NA0013		U	1.44						
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	1.42	2.76	12.46	865.28%					
Trim / Thin Trees	0.01		0.01	0.69%					
Encroachments					0.24				
Animal Control	0.22	0.13	0.74	51.39%					
Crown Surface / Depressions / Rutting	0.06		0.06	4.17%					
<i>Supplemental</i>									
DWR Erosion Survey	0.02		0.02	1.39%					
<i>Unit Totals:</i>	1.73	2.89	13.29	922.92%	0.24	0.00	0.00	0.00	

Unit No. 04 Owens Creek Diversion LB		Overall Unit Rating	Total Unit Miles						
NA0013		U	1.44						
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	0.21	1.08	4.53	314.58%					
Animal Control	1.31	0.51	3.35	232.64%					
Cracking	0.01		0.01	0.69%					
Crown Surface / Depressions / Rutting	0.36		0.36	25.00%					
<i>Supplemental</i>									
DWR Erosion Survey	0.15		0.15	10.42%					
<i>Unit Totals:</i>	2.04	1.59	8.40	583.33%	0.00	0.00	0.00	0.00	

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2013 Levee Inspection Results

Merced Streams Group

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

** 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
Fall 2013 Levee Inspection Results
Merced Streams Group**

Waterway			Bank	Unit Miles
Unit No. 01 Black Rascal Diversion			Right	1.64
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/15/2013 - 04/15/2013		11/05/2013 - 11/05/2013	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By				

Summer & Winter Inspections

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

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Merced Streams Group

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Black Rascal Diversion						Right	1.64	11/05/2013 11/05/2013	Herman Phillips	
LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	Photo
	Start	End					Start	End		
1			Earthen Levee	Operations & Maintenance Manuals	WS A Ma		°	°	7	
DWR ID: DWR_NA0013_01_s_2012_7										
2			Earthen Levee	Emergency Supplies & Equipment	WS A Ma		°	°	8	
DWR ID: DWR_NA0013_01_s_2012_8										
3			Earthen Levee	Flood Preparedness & Training	WS A Ma		°	°	9	
DWR ID: DWR_NA0013_01_s_2012_9										
4	0.00	0.00	Earthen Levee	Vegetation	LS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.314761 ° -120.396325 °	37.314761 ° -120.396325 °	14 Y	
DWR ID: DWR_NA0013_01_s_2013_14										
5	0.23	0.56	Earthen Levee	Crown Surface / Depressions / Rutting	LS M Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.317886 ° -120.396366 °	37.322510 ° -120.396599 °	3	
DWR ID: DWR_NA0013_01_s_2013_3										
6	0.51	0.51	Earthen Levee	Encroachments	WS U En	GA : Garbage Inspector Comments: Box springs laying on both slopes should be removed from levee section. During my Spring inspection 4-15-2013 found that the boxspring listed 2012 inspection, The boxspring was burned, the debris need to be removed. 11-05 2013 This issue still remains. Several attempts made in burying it up. Completely remove from levee section.	37.321864 ° -120.396600 °	37.321864 ° -120.396604 °	5 Y	
DWR ID: DWR_NA0013_01_f_2012_5										
7	0.56	0.56	Earthen Levee	Encroachments	WS C En	GA : Garbage	37.322530 ° -120.396579 °	37.322530 ° -120.396579 °	4	
DWR ID: DWR_NA0013_01_f_2013_4										
8	0.56	0.60	Earthen Levee	Vegetation	WS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.322531 ° -120.396579 °	37.323166 ° -120.396593 °	2	
DWR ID: DWR_NA0013_01_f_2013_2										
9	0.94	0.95	Earthen Levee	Crown Surface / Depressions / Rutting	CR M Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.328007 ° -120.396650 °	37.328123 ° -120.396648 °	12	
DWR ID: DWR_NA0013_01_s_2013_12										
10	1.31	1.63	Earthen Levee	Vegetation	WS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: This growth looks like it was sprayed, remove the dead growth from the levee section. Cut the tree growth back to allow visibility of the ground.	37.332825 ° -120.394887 °	37.337056 ° -120.396531 °	1 Y	
DWR ID: DWR_NA0013_01_s_2012_1										

*** Location**

LS : Land Side
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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Merced Streams Group

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Black Rascal Diversion	Right	1.64	11/05/2013 11/05/2013	Herman Phillips

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Black Rascal Diversion Unit 1 looking upstream waterside slope. Photo taken 11-05-2013.

phillips_f_20131127_713.JPG



Levee Mile Report Line	6
Start Levee Mile	0.51
End Levee Mile	0.51
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Levee mile 0.51, this mattress was listed as unsatisfactory encroachment, it appears to have been burned in place not removing from levee section. Photo taken 4-15-2013.

phillips_f_20130925_771.JPG



Levee Mile Report Line	6
Start Levee Mile	0.51
End Levee Mile	0.51
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Levee mile 0.51 this encroachment has not been removed. Photo taken 11-05-2013.

phillips_f_20131127_714.JPG



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Merced Streams Group

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Black Rascal Diversion	Right	1.64	11/05/2013 11/05/2013	Herman Phillips

Levee Mile Report Line	10
Start Levee Mile	1.31
End Levee Mile	1.63
Location	Water Side
Category	Earthen Levee
Item	Vegetation

District has sprayed and mowed some of the wild growth along the channel. Photo taken 4-15-2013.

phillips_f_20130925_770.JPG



Levee Mile Report Line	10
Start Levee Mile	1.31
End Levee Mile	1.63
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Woody tree growth and berry vines seems to be sprayed remove the dead growth from slope waterside. Photo taken 11-05-2013.

phillips_f_20131127_715.JPG



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En : Enforcement

**Flood Control Project Maintenance
Levee Inspections
Unit Cover Sheet
Fall 2013 Levee Inspection Results
Merced Streams Group**

Waterway			Bank	Unit Miles
Unit No. 02 Black Rascal Diversion			Left	1.88
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/15/2013 - 04/15/2013		11/05/2013 - 11/05/2013	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By				

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Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Merced Streams Group

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Black Rascal Diversion							Left	1.88	11/05/2013 11/05/2013	Herman Phillips
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Earthen Levee	Encroachments	LS	U En	PI : Pipe	37.337034 ° -120.387422 °	37.337034 ° -120.387422 °	2 Y
								DWR ID: DWR_NA0013_02_f_2012_2		
2	0.08	1.66	Earthen Levee	Encroachments	WS	M En	MA : Material Inspector Comments: The maintaining agency has dredged the channel and the tailing were placed on the waterward berm. 11-5-2013.	37.336504 ° -120.388491 °	37.317753 ° -120.395750 °	12
								DWR ID: DWR_NA0013_02_f_2013_12		
3	0.30	0.37	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.335706 ° -120.392190 °	37.334918 ° -120.392499 °	16
								DWR ID: DWR_NA0013_02_f_2013_16		
4	0.49	0.65	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.333568 ° -120.393312 °	37.331649 ° -120.394302 °	17
								DWR ID: DWR_NA0013_02_f_2013_17		
5	0.51	0.51	Earthen Levee	Encroachments	LS	M En	PR : Prunings	37.333463 ° -120.393776 °	37.333463 ° -120.393776 °	18
								DWR ID: DWR_NA0013_02_f_2013_18		
6	0.61	0.61	Earthen Levee	Repair Gates	CR	U Ma	Inspector Comments: This broken gate could produce a health hazard, someone could get hurt trying to lift up to open or close. Weld the hinge back in place.	37.332267 ° -120.394137 °	37.332267 ° -120.394137 °	19 Y
								DWR ID: DWR_NA0013_02_f_2013_19		
7	0.66	0.66	Earthen Levee	Encroachments	LS	M En	GA : Garbage Inspector Comments: Discarded vehicle tires on landward evee slope. 10-5-2013.	37.331604 ° -120.394334 °	37.331604 ° -120.394334 °	20
								DWR ID: DWR_NA0013_02_f_2013_20		
8	0.70	0.97	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.331107 ° -120.394673 °	37.327500 ° -120.396098 °	8
								DWR ID: DWR_NA0013_02_s_2012_8		
9	0.70	0.70	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	37.331038 ° -120.394721 °	37.331038 ° -120.394721 °	13
								DWR ID: DWR_NA0013_02_f_2013_13		
10	0.95	1.05	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.327791 ° -120.396097 °	37.326354 ° -120.396074 °	7
								DWR ID: DWR_NA0013_02_f_2012_7		
11	0.97	0.99	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.327567 ° -120.396132 °	37.327171 ° -120.396122 °	1
								DWR ID: DWR_NA0013_02_s_2013_1		
12	1.01	1.32	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Rodent holes present but no rodent seen around these sites.	37.326886 ° -120.396079 °	37.322495 ° -120.396049 °	21
								DWR ID: DWR_NA0013_02_f_2013_21		

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Merced Streams Group

DWR ID: DWR_NA0013_02_f_2013_22

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Merced Streams Group

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Black Rascal Diversion	Left	1.88	11/05/2013 11/05/2013	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Black Rascal Creek looking downstream from 0.00 landside slope. Photo taken 4-15-2013.	
phillips_f_20130925_773.JPG	



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Need permit covering this application located at levee mile 0.00 landside. Photo taken 11-05-2013.	
phillips_f_20131127_716.JPG	



Levee Mile Report Line	6
Start Levee Mile	0.61
End Levee Mile	0.61
Location	Crown
Category	Earthen Levee
Item	Repair Gates
This gate is broken at the hinge, making it difficult to navigate. Photo taken 11-05-2013.	
phillips_f_20131127_717.JPG	



* Location LS : Land Side 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 2013

Merced Streams Group

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Black Rascal Diversion	Left	1.88	11/05/2013 11/05/2013	Herman Phillips

Levee Mile Report Line	13
Start Levee Mile	1.31
End Levee Mile	1.31
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking down at the site.

SJR2013_NA0013U02RM1.31_4.jpg



Levee Mile Report Line	14
Start Levee Mile	1.31
End Levee Mile	1.31
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

This erosion was noted during my Spring Inspection 4-15-2013.

phillips_f_20130925_774.JPG



Levee Mile Report Line	14
Start Levee Mile	1.31
End Levee Mile	1.31
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

No repairs has been made to this erosion site noted in my last two reports. Photo taken 11-05-2013.

phillips_f_20131127_718.JPG



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Levee Inspections**

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Unit No. 02 Black Rascal Diversion	Left	1.88	11/05/2013 11/05/2013	Herman Phillips

Levee Mile Report Line	19
Start Levee Mile	1.66
End Levee Mile	1.87
Location	Crown
Category	Earthen Levee
Item	Vegetation

Looking downstream at Unit 2 the grasses have been mowed, but some still remains on crown roadway. Photo taken 11-05-2013.

phillips_f_20131127_719.JPG



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Merced Streams Group**

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DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By				

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Levee Inspections**

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Merced Streams Group

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LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
1	0.01	1.01	Earthen Levee	Vegetation	WS U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.257653 ° -120.288485 °	37.270844 ° -120.284123 °	4 Y
DWR ID: DWR_NA0013_03_f_2013_4									
2	0.01	0.72	Earthen Levee	Vegetation	CR U Ma	V9 : Keep the crown roadway free of vegetation.	37.257658 ° -120.288487 °	37.267489 ° -120.286985 °	6 Y
DWR ID: DWR_NA0013_03_f_2013_6									
3	0.01	0.95	Earthen Levee	Vegetation	LS U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.257661 ° -120.288488 °	37.270184 ° -120.284783 °	10 Y
DWR ID: DWR_NA0013_03_f_2013_10									
4	0.18	0.18	Earthen Levee	Trim / Thin Trees	LS M Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	37.260055 ° -120.288545 °	37.260055 ° -120.288545 °	11
DWR ID: DWR_NA0013_03_s_2013_11									
5	0.41	0.43	Earthen Levee	Vegetation	WS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.263310 ° -120.288273 °	37.263579 ° -120.288353 °	17
DWR ID: DWR_NA0013_03_f_2013_17									
6	0.41	1.01	Earthen Levee	Vegetation	LS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.263310 ° -120.288274 °	37.270847 ° -120.284129 °	16
DWR ID: DWR_NA0013_03_f_2013_16									
7	0.45	0.46	Earthen Levee	Vegetation	LS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.263951 ° -120.288472 °	37.264101 ° -120.288474 °	13
DWR ID: DWR_NA0013_03_s_2013_13									
8	0.46	1.25	Earthen Levee	Vegetation	WS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.264120 ° -120.288459 °	37.272690 ° -120.280337 °	18
DWR ID: DWR_NA0013_03_f_2013_18									
9	0.56	0.62	Earthen Levee	Crown Surface / Depressions / Rutting	CR M Ma	C2 : Repair depressions or ruts in the crown or slope.	37.265460 ° -120.288447 °	37.266225 ° -120.287980 °	3
DWR ID: DWR_NA0013_03_f_2012_3									
10	0.74	0.74	Earthen Levee	Animal Control	LS M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.267714 ° -120.286717 °	37.267714 ° -120.286717 °	5
DWR ID: DWR_NA0013_03_f_2012_5									
11	0.86	1.10	Earthen Levee	Encroachments	WS M En	MA : Material	37.269164 ° -120.285625 °	37.271668 ° -120.282784 °	19 Y
DWR ID: DWR_NA0013_03_f_2013_19									

*** Location**

LS : Land Side
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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Merced Streams Group

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Owens Creek Diversion	Right	1.44	11/05/2013 11/05/2013	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
12	1.00	1.00	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 07/16/2013. No significant changes have been observed. 07/31/2012: Site was visited on 07/26/2012. No significant changes observed. Dense vegetation presents at the site. 08/16/2011: No visible change. 100 percent vegetation coverage with star thistles. Minor cracking visible on the waterside slope. 11/30/2010: Site was not inspected this year due to time constraint. There have been no reports from the district that this site was corrected. Continue to monitor during flood events. 2009: Site is recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; it was previously rated "U". 8/26/2008: Terracetting erosion; frequent livestock traversing the slopes has caused deformation of the waterside levee slope. 9/11/2007: GPS extended from opposite bank using Google Earth. [2013 Site ID:NA0013U03RM1]	37.270800 ° -120.284180 °	37.270800 ° -120.284180 °	1 Y
13	1.11	1.24	Earthen Levee	Animal Control	LS	U Ma	A1 : Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: This levee section has a history of rodent problems that has been known for more than 10 years.	37.271737 ° -120.282642 °	37.272498 ° -120.280511 °	9 Y
14	1.20	1.20	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.272444 ° -120.281282 °	37.272444 ° -120.281282 °	970
15	1.21	1.27	Earthen Levee	Animal Control	WS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.272510 ° -120.281043 °	37.272860 ° -120.280287 °	15
16	1.21	1.27	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.272510 ° -120.281042 °	37.272860 ° -120.280287 °	14
17	1.23	1.23	Earthen Levee	Animal Control	CR	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.272553 ° -120.280742 °	37.272553 ° -120.280742 °	971
18	1.24	1.24	Earthen Levee	Animal Control	CR	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: This unit is maintained as far as the vegetation is concerned, however there is a problem with the rodents. The district should have bait stations throughout the area where rodents are present.	37.272584 ° -120.280543 °	37.272584 ° -120.280543 °	8
19	1.24	1.24	Earthen Levee	Animal Control	CR	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.272569 ° -120.280443 °	37.272569 ° -120.280443 °	12

* Location LS : Land Side 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 2013

Merced Streams Group

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 03 Owens Creek Diversion				Right	1.44	11/05/2013 11/05/2013	Herman Phillips	

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
20	1.25	1.30	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: The district needs to be more aggressive in their efforts of controlling the ground squirrels. There should be some bait stations placed in affected areas.	37.272707 ° -120.280334 °	37.273379 ° -120.279976 °	7 Y
DWR ID: DWR_NA0013_03_s_2012_7										
21	1.25	1.25	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 07/16/2013: No significant changes have been observed. 07/31/2012: Site was visited on 07/24/2012. No significant changes observed. Dried grass covered the site. Dense vegetation. 08/16/2011: No visible change. 100 percent vegetation coverage with star thistles. Minor cracking is visible on the waterside slope. Burrow holes are visible. 11/30/2010: Site was not inspected this year due to time constraint. There have been no reports from the district that the site was repaired. Continue to monitor during flood events. 2009: Bank erosion scour that is immediately downstream of Mission Avenue bridge; noticeable terracetting damage from livestock traversing the slope; site is recommended as local maintenance issue, per CLRO Evaluation 2008 Report; site was previously rated "M". 8/26/2008: Terracetting damage from livestock; there is now a pocket erosion developing on the levee toe; site is 100 feet downstream of Mission Avenue bridge. [2013 Site ID:NA0013U03RM1.25]	37.272630 ° -120.280390 °	37.272630 ° -120.280390 °	2 Y
DWR ID:										
22	1.29	1.40	Earthen Levee	Vegetation	WS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.273209 ° -120.280182 °	37.273558 ° -120.278176 °	20 Y
DWR ID: DWR_NA0013_03_f_2013_20										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Merced Streams Group

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Owens Creek Diversion	Right	1.44	11/05/2013 11/05/2013	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	0.01
End Levee Mile	1.01
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Weeds taller than 2-foot present on waterside slope. Photo taken 11-05-2013.	
phillips_f_20131127_720.JPG	



Levee Mile Report Line	2
Start Levee Mile	0.01
End Levee Mile	0.72
Location	Crown
Category	Earthen Levee
Item	Vegetation
Looking upstream at Unit 3 Owens Creek Crown roadway is overgrown. Photo taken 11-05-2013.	
phillips_f_20131127_721.JPG	



Levee Mile Report Line	3
Start Levee Mile	0.01
End Levee Mile	0.95
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking upstream from landside weeds are taller than 2-foot. Photo taken 11-05-2013.	
phillips_f_20131127_722.JPG	



* Location LS : Land Side 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 2013

Merced Streams Group

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Owens Creek Diversion	Right	1.44	11/05/2013 11/05/2013	Herman Phillips

Levee Mile Report Line	11
Start Levee Mile	0.86
End Levee Mile	1.10
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Dredged materials from channel placed on water side toe and shoulder. Photo taken 11-05-2013.

phillips_f_20131127_723.JPG



Levee Mile Report Line	12
Start Levee Mile	1.00
End Levee Mile	1.00
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Remains of the crossing structure at the site.

SJR2013_NA0013U03RM1_1.jpg



Levee Mile Report Line	13
Start Levee Mile	1.11
End Levee Mile	1.24
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Levee taken over by rodents, levee mile 1.11-1.24. Photo taken 4-18-2013. No bait stations present on landward slope. This site hasn't changed from last inspection. 11-05-2013.

phillips_f_20130925_781.JPG



*** Location**

LS : Land Side
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**** Rating**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Merced Streams Group

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Owens Creek Diversion	Right	1.44	11/05/2013 11/05/2013	Herman Phillips

Levee Mile Report Line	20
Start Levee Mile	1.25
End Levee Mile	1.30
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Landside slope taken over by rodents. Photo taken 4-18-2013.

phillips_f_20130925_780.JPG



Levee Mile Report Line	21
Start Levee Mile	1.25
End Levee Mile	1.25
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

The site is covered with dense thistles.

SJR2013_NA0013U03RM1.25_1.jpg



Levee Mile Report Line	22
Start Levee Mile	1.29
End Levee Mile	1.40
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking upstream water side at vegetation. Photo taken 11-05-2013.

phillips_f_20131127_724.JPG



* Location LS : Land Side 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 2013 Levee Inspection Results
Merced Streams Group**

Waterway			Bank	Unit Miles
Unit No. 04 Owens Creek Diversion			Left	1.44
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/18/2013 - 04/18/2013		11/05/2013 - 11/05/2013	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By				

Summer & Winter Inspections

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

DWR must be informed on the:

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

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Merced Streams Group

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Owens Creek Diversion						Left	1.44	11/05/2013 11/05/2013	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	0.11	Earthen Levee	Vegetation	CR	M Ma	V9 : Keep the crown roadway free of vegetation.	37.273319 ° -120.277838 °	37.273231 ° -120.279837 °	5 Y
DWR ID: DWR_NA0013_04_s_2013_5										
2	0.01	0.11	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.273082 ° -120.277984 °	37.273231 ° -120.279840 °	7 Y
DWR ID: DWR_NA0013_04_s_2012_7										
3	0.06	0.06	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.273335 ° -120.277752 °	37.273335 ° -120.277752 °	6 Y
DWR ID: DWR_NA0013_04_f_2012_6										
4	0.12	0.17	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.273070 ° -120.279985 °	37.272466 ° -120.280214 °	10 Y
DWR ID: DWR_NA0013_04_s_2012_10										
5	0.15	0.28	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 07/16/2013: No significant changes observed 07/31/2012: No significant changes observed 08/16/2011: No significant change was visible. Minor cracking on the waterside levee slope was spotted. 100 percent vegetation coverage with star thistles. 11/30/2010: Site was not inspected this year due to time constraints. There have been no reports from the district that the site has been corrected. 2009: Site recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; previously rated "U". 9/10/2007: GPS extended from opposite bank using Google Earth; signs of vehicular damage on levee. [2013 Site ID:NA0013U04RM0.21]	37.272283 ° -120.280869 °	37.272283 ° -120.280869 °	3 Y
DWR ID:										
6	0.17	0.25	Earthen Levee	Animal Control	WS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.272477 ° -120.280222 °	37.272103 ° -120.281465 °	15 Y
DWR ID: DWR_NA0013_04_s_2013_15										
7	0.18	0.18	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.272429 ° -120.280251 °	37.272429 ° -120.280251 °	1 Y
DWR ID: DWR_NA0013_04_s_2012_1										
8	0.18	0.23	Earthen Levee	Animal Control	LS	U Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.272429 ° -120.280250 °	37.272380 ° -120.280360 °	8 Y
DWR ID: DWR_NA0013_04_f_2012_8										
9	0.23	0.23	Earthen Levee	Animal Control	CR	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.272219 ° -120.281157 °	37.272219 ° -120.281157 °	31 Y
DWR ID: DWR_NA0013_04_s_2012_31										
10	0.23	0.25	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.272157 ° -120.281152 °	37.272029 ° -120.281500 °	17 Y
DWR ID: DWR_NA0013_04_f_2012_17										
11	0.25	0.86	Earthen Levee	Animal Control	LS	M Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.272081 ° -120.281483 °	37.265389 ° -120.288041 °	21 Y
DWR ID: DWR_NA0013_04_s_2012_21										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Merced Streams Group

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Owens Creek Diversion	Left	1.44	11/05/2013 11/05/2013	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
12	0.42	0.43	Supplemental	DWR Erosion Survey	WS	M	Inspector Comments: 07/16/2013: No significant changes observed. 07/24/2012: No significant changes observed. 08/16/2011: No visible significant changes. 100 percent vegetation coverage with star thistles. Minor cracking visible on the waterside slope. 11/30/2010: Site was not inspected this year due to time constraints. There have been no reports from the district that the site has been corrected. 2009: Site is recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; terracetting damage from livestock traversing; there is a wooden platform installed on site; landside is on high ground; site was previously rated "M". 9/10/2007: GPS extended from opposite bank using Google Earth; GPS on file is correct. [2013 Site ID:NA0013U04RM0.42]	37.270630 ° -120.283970 °	37.270630 ° -120.283970 °	4 Y
DWR ID: DWR_NA0013_04_s_2012_22										
13	0.48	0.54	Earthen Levee	Animal Control	LS	M	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.270016 ° -120.284539 °	37.269254 ° -120.285127 °	22
DWR ID: DWR_NA0013_04_s_2012_22										
14	0.50	0.50	Earthen Levee	Animal Control	WS	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.269709 ° -120.284712 °	37.269709 ° -120.284712 °	2
DWR ID: DWR_NA0013_04_s_2012_2										
15	0.55	1.01	Earthen Levee	Animal Control	LS	U	A1 : Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: There was a corn crop grown here. The rodent population has increased.	37.269084 ° -120.285150 °	37.263043 ° -120.287847 °	19 Y
DWR ID: DWR_NA0013_04_f_2012_19										
16	0.60	1.04	Earthen Levee	Animal Control	WS	M	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.268544 ° -120.285738 °	37.262887 ° -120.287889 °	12
DWR ID: DWR_NA0013_04_s_2012_12										
17	0.93	0.93	Earthen Levee	Animal Control	CR	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.264325 ° -120.288038 °	37.264325 ° -120.288038 °	36
DWR ID: DWR_NA0013_04_s_2012_36										
18	0.97	0.97	Earthen Levee	Cracking	WS	M	CR1 : Monitor and have inspected by geotechnical engineer. Inspector Comments: Tall weeds present along both levee slopes; unable to see the cracks mentioned in previous inspection.	37.263850 ° -120.288021 °	37.263850 ° -120.288021 °	14 Y
DWR ID: DWR_NA0013_04_s_2012_14										
19	1.03	1.39	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	37.262920 ° -120.287842 °	37.257759 ° -120.287956 °	18
DWR ID: DWR_NA0013_04_s_2012_18										
20	1.08	1.44	Earthen Levee	Vegetation	WS	U	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.262203 ° -120.288137 °	37.257250 ° -120.288352 °	13 Y
DWR ID: DWR_NA0013_04_f_2013_13										

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Merced Streams Group

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 04 Owens Creek Diversion						Left	1.44	11/05/2013 11/05/2013	Herman Phillips	

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
21	1.08	1.44	Earthen Levee	Vegetation	LS	U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.262203 ° -120.288137 °	37.257250 ° -120.288352 °	16 Y
DWR ID: DWR_NA0013_04_f_2013_16										
22	1.08	1.44	Earthen Levee	Vegetation	CR	U Ma	V9 : Keep the crown roadway free of vegetation.	37.262203 ° -120.288136 °	37.257250 ° -120.288352 °	11 Y
DWR ID: DWR_NA0013_04_f_2013_11										

*** Location**

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WS : Water Side
CR : Crown

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Merced Streams Group

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Owens Creek Diversion	Left	1.44	11/05/2013 11/05/2013	Herman Phillips

Levee Mile Report Line	2
Start Levee Mile	0.01
End Levee Mile	0.11
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Owen's Creek looking downstream from levee mile 0.01. Photo taken 11-05-2013.

phillips_f_20131202_729.JPG



Levee Mile Report Line	5
Start Levee Mile	0.15
End Levee Mile	0.28
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

The site is covered with dense star thistles.

SJR2013_NA0013U04RM0.21_2.jpg



Levee Mile Report Line	8
Start Levee Mile	0.18
End Levee Mile	0.23
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Unit 4 looking downstream rodents are very active along this section of levee, there are no bait stations. Photo taken 11-05-2013.

phillips_f_20131202_730.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Merced Streams Group

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Owens Creek Diversion	Left	1.44	11/05/2013 11/05/2013	Herman Phillips

Levee Mile Report Line	12
Start Levee Mile	0.42
End Levee Mile	0.43
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Direct view of the site. Remains of fence post.

SJR2013_NA0013U04RM0.42_3.jpg



Levee Mile Report Line	15
Start Levee Mile	0.55
End Levee Mile	1.01
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Rodent activity along landside slope. Photo taken 11-05-2013.

phillips_f_20131202_731.JPG



Levee Mile Report Line	18
Start Levee Mile	0.97
End Levee Mile	0.97
Location	Water Side
Category	Earthen Levee
Item	Cracking

Minor surface cracking on waterside levee slope.

phillips_f_20130925_789.jpg



*** Location**

LS : Land Side
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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Merced Streams Group

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Owens Creek Diversion	Left	1.44	11/05/2013 11/05/2013	Herman Phillips

Levee Mile Report Line	20
Start Levee Mile	1.08
End Levee Mile	1.44
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking downstream at water side weeds taller than 2-foot. Photo taken 11-05-2013.

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Levee Mile Report Line	21
Start Levee Mile	1.08
End Levee Mile	1.44
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking downstream from levee mile 1.08 weeds are taller than 2-foot on landside slope. Photo taken 11-05-2013.

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Levee Mile Report Line	22
Start Levee Mile	1.08
End Levee Mile	1.44
Location	Crown
Category	Earthen Levee
Item	Vegetation

Looking downstream from levee mile 1.08 - 1.44 vegetation on crown. Photo taken 11-05-2013.

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*** Location**

LS : Land Side
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