

**Flood Control Project Maintenance
Levee Inspections**

Fall 2009 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0001 Sacramento Maintenance Yard Cache Creek	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 *	25.52				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments PO Miles CO Miles	
Vegetation	0.02		0.02	0.08%		
Encroachments	0.28		0.28	1.10%	1.90	0.12
USACE Erosion Survey		0.28	1.12	4.39%		
<i>LMA Totals:</i>	0.30	0.28	1.42	5.56% *	1.90	0.12
Unit No. 01 North Levee			Overall Unit Rating	Total Unit Miles		
			M	11.81		
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments PO Miles CO Miles	
Encroachments	0.22		0.22	1.86%	1.25	0.12
USACE Erosion Survey		0.28	1.12	9.48%		
<i>Unit Totals:</i>	0.22	0.28	1.34	11.35%	1.25	0.12
Unit No. 02 South Levee			Overall Unit Rating	Total Unit Miles		
			A	11.43		
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments PO Miles CO Miles	
Vegetation	0.02		0.02	0.18%		
Encroachments	0.06		0.06	0.53%	0.65	
<i>Unit Totals:</i>	0.08	0.00	0.08	0.70%	0.65	0.00
Unit No. 04 East Training Levee of Cache Creek Settling Basin			Overall Unit Rating	Total Unit Miles		
			A	2.28		
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments PO Miles CO Miles	
No Items						
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections
LMA District Cover Sheet
Fall 2009 Levee Inspection Results**

Sacramento Maintenance Yard Cache Creek

	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.

* **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.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2009 Levee Inspection Results

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles
Unit No. 01 North Levee	Left	11.81

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	3/12/2009		9/24/2009	
DWR Inspector	John Williamson		John Williamson	
Accompanied By				

Check one:

During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Room LL-30
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.81	10/23/2009 10/23/2009	John Williamson

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	1.86	1.96	Earthen Levee	Encroachments	LS	CO	Landscaping	38.729828 ° -121.806532 °	38.731143 ° -121.806255 °	3
2	1.91	1.91	Earthen Levee	Encroachments	LS	PO	Buildings	38.730528 ° -121.806485 °	38.730528 ° -121.806485 °	4
3	1.92	1.94	Earthen Levee	Encroachments	LS	M	Equipment	38.730588 ° -121.806455 °	38.730942 ° -121.806333 °	5
4	1.96	1.99	Earthen Levee	Encroachments	WS	PO	Landscaping Inspector Comments: cactus on waterside berm	38.731197 ° -121.806232 °	38.731655 ° -121.806068 °	6
5	1.96	1.99	Earthen Levee	Encroachments	LS	PO	Landscaping	38.731198 ° -121.806230 °	38.731650 ° -121.806068 °	7
6	1.98	1.98	Earthen Levee	Encroachments	LS	PO	Buildings	38.731507 ° -121.806122 °	38.731507 ° -121.806122 °	8
7	2.01	2.01	Earthen Levee	Encroachments	LS	PO	Buildings	38.731927 ° -121.805973 °	38.731927 ° -121.805973 °	9
8	2.03	2.03	Earthen Levee	Encroachments	LS	PO	Buildings	38.732162 ° -121.805895 °	38.732162 ° -121.805895 °	10
9	2.04	2.04	Earthen Levee	Encroachments	LS	PO	Buildings	38.732268 ° -121.805832 °	38.732268 ° -121.805832 °	11
10	2.05	2.05	Earthen Levee	Encroachments	LS	PO	Buildings	38.732432 ° -121.805752 °	38.732432 ° -121.805752 °	12
11	2.06	2.06	Earthen Levee	Encroachments	LS	PO	Buildings	38.732537 ° -121.805708 °	38.732537 ° -121.805708 °	13
12	2.10	2.11	Earthen Levee	Encroachments	LS	PO	Landscaping	38.733117 ° -121.805367 °	38.733218 ° -121.805263 °	14
13	2.11	2.13	Earthen Levee	Encroachments	LS	CO	Fences	38.733215 ° -121.805262 °	38.733350 ° -121.805082 °	15
14	2.12	2.15	Earthen Levee	Encroachments	WS	M	Prunings	38.733274 ° -121.805111 °	38.733551 ° -121.804686 °	914
15	2.15	2.15	Earthen Levee	Encroachments	LS	PO	Buildings	38.733555 ° -121.804737 °	38.733555 ° -121.804737 °	16
16	2.44	2.58	Supplemental	USACE Erosion Survey	LS	U	Inspector Comments: slumping, beaver holes 3/25/2009 bow levee	38.733473 ° -121.799562 °	38.732622 ° -121.797153 °	903
17	2.60	2.60	Earthen Levee	Encroachments	LS	PO	Buildings	38.732850 ° -121.796798 °	38.732850 ° -121.796798 °	17
18	2.62	2.62	Earthen Levee	Encroachments	LS	M	Equipment	38.732903 ° -121.796538 °	38.732903 ° -121.796538 °	18

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected	C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.81	10/23/2009 10/23/2009	John Williamson

LMIR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
19	2.65	2.70	Earthen Levee	Encroachments	LS	M	Equipment	38.733080 ° -121.796013 °	38.733492 ° -121.795293 °	19
20	2.66	2.66	Earthen Levee	Encroachments	LS	PO	Buildings	38.733132 ° -121.795890 °	38.733132 ° -121.795890 °	20
21	2.71	2.71	Earthen Levee	Encroachments	LS	M	Firewood	38.733572 ° -121.795172 °	38.733572 ° -121.795172 °	21
22	2.93	2.93	Earthen Levee	Encroachments	LS	M	Prunings	38.734320 ° -121.791177 °	38.734320 ° -121.791177 °	23
23	3.30	3.30	Earthen Levee	Encroachments	LS	C	Prunings	38.735006 ° -121.784952 °	38.735006 ° -121.784952 °	910
24	3.46	3.52	Supplemental	USACE Erosion Survey	LS	U	Inspector Comments: caves, tension cracks, slumping	38.732950 ° -121.785095 °	38.732051 ° -121.785267 °	904
25	3.61	3.61	Earthen Levee	Encroachments	LS	M	Prunings	38.730702 ° -121.784850 °	38.730702 ° -121.784850 °	26
26	3.86	3.94	Supplemental	USACE Erosion Survey	LS	U	Inspector Comments: tree hazards, caves, tension cracks, slumping	38.728242 ° -121.781621 °	38.727625 ° -121.780336 °	905
27	4.27	4.42	Earthen Levee	Encroachments	LS	PO	Landscaping	38.727047 ° -121.774413 °	38.726113 ° -121.771929 °	27
28	4.33	4.33	Earthen Levee	Encroachments	LS	M	Prunings	38.726828 ° -121.773278 °	38.726828 ° -121.773278 °	44
29	5.73	5.73	Earthen Levee	Encroachments	WS	M	Prunings	38.723674 ° -121.754878 °	38.723674 ° -121.754878 °	911
30	6.94	7.23	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	38.728062 ° -121.735346 °	38.727486 ° -121.730251 °	912 Y
31	7.29	7.29	Earthen Levee	Encroachments	LS	M	Prunings	38.727766 ° -121.729207 °	38.727766 ° -121.729207 °	915
32	7.33	7.38	Earthen Levee	Encroachments	LS	M	Equipment	38.727878 ° -121.728553 °	38.728085 ° -121.727740 °	40
33	7.33	7.33	Earthen Levee	Encroachments	LS	PO	Buildings	38.727870 ° -121.728527 °	38.727870 ° -121.728527 °	39
34	7.40	8.03	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	38.728181 ° -121.727452 °	38.727199 ° -121.716907 °	913

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 North Levee	Left	11.81	10/23/2009 10/23/2009	John Williamson

Levee Mile Report Line	30
Start Levee Mile	6.94
End Levee Mile	7.23
Location	Land Side
Category	Earthen Levee
Item	Encroachments
new ditch this spring	
johngw_20090924_23.jpg	



<p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p>** Rating</p> <p>A : Acceptable PO : Partially Obstructing C : Corrected M : Minimally Acceptable CO : Completely Obstructing U : Unacceptable N : Not Inspected</p>
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2009 Levee Inspection Results

Sacramento Maintenance Yard Cache Creek

Waterway		Bank	Unit Miles
Unit No. 02 South Levee		Right	11.43

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/12/2009		9/24/2009	
DWR Inspector	John Williamson		John Williamson	
Accompanied By				

Check one:

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 South Levee	Right	11.43	10/26/2009 10/26/2009	John Williamson

LMIR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.18	0.18	Earthen Levee	Encroachments	LS	M	Prunings Inspector Comments: stumps	38.729801 ° -121.805180 °	38.729801 ° -121.805180 °	11
2	0.28	0.28	Earthen Levee	Encroachments	LS	M	Debris	38.731030 ° -121.804886 °	38.731030 ° -121.804886 °	16
3	1.63	1.63	Earthen Levee	Encroachments	LS	M	Prunings	38.730769 ° -121.785988 °	38.730769 ° -121.785988 °	12
4	2.36	2.36	Earthen Levee	Encroachments	LS	M	Pipe	38.726222 ° -121.774877 °	38.726222 ° -121.774877 °	3
5	2.41	2.41	Earthen Levee	Encroachments	LS	M	Equipment	38.725953 ° -121.773997 °	38.725953 ° -121.773997 °	4
6	2.57	2.57	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.724433 ° -121.771717 °	38.724433 ° -121.771717 °	5
7	2.60	2.60	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.724115 ° -121.771370 °	38.724115 ° -121.771370 °	6
8	2.60	3.00	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	38.723782 ° -121.770938 °	38.720063 ° -121.764046 °	15 Y
9	3.48	3.57	Earthen Levee	Encroachments	LS	PO	Landscaping	38.722228 ° -121.759663 °	38.723322 ° -121.759317 °	7
10	4.00	4.04	Earthen Levee	Encroachments	LS	PO	Buildings	38.723922 ° -121.752593 °	38.724257 ° -121.752193 °	8
11	4.04	4.13	Earthen Levee	Encroachments	LS	PO	Landscaping	38.724317 ° -121.752148 °	38.725242 ° -121.751075 °	9
12	4.15	4.15	Earthen Levee	Encroachments	LS	M	Equipment	38.725476 ° -121.750809 °	38.725476 ° -121.750809 °	13
13	4.41	4.44	Earthen Levee	Encroachments	LS	PO	Landscaping	38.726875 ° -121.746422 °	38.727008 ° -121.745925 °	10

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 South Levee	Right	11.43	10/26/2009 10/26/2009	John Williamson

Levee Mile Report Line	8
Start Levee Mile	2.60
End Levee Mile	3.00
Location	Land Side
Category	Earthen Levee
Item	Encroachments
ditch along toe new	
johngw_20090924_24.jpg	



<p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p>** Rating</p> <p>A : Acceptable PO : Partially Obstructing C : Corrected M : Minimally Acceptable CO : Completely Obstructing U : Unacceptable N : Not Inspected</p>
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2009 Levee Inspection Results

Sacramento Maintenance Yard Cache Creek

Waterway	Bank	Unit Miles
Unit No. 04 East Training Levee of Cache Creek Settling Basin	Left	2.28

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection			9/24/2009	
DWR Inspector			John Williamson	
Accompanied By				

Check one:

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Signature of LMA Representative

Date

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Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Sacramento Maintenance Yard Cache Creek

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Unit No. 04 East Training Levee of Cache Creek Settling Basin	Left	2.28	10/23/2009 10/23/2009	John Williamson

LMIR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1							No issues were reported.			

<p>* Location LS : Land Side WS : Water Side CR : Crown</p>	<p>** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected</p>	<p>C : Corrected</p>
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