

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

Brannan Andrus Levee Maintenance District

	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.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2009 Levee Inspection Results

Brannan Andrus Levee Maintenance District

Waterway		Bank	Unit Miles
Unit No. 01 Georgiana Slough		Right	6.00

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/15/2009 - 4/15/2009			
DWR Inspector	Richard Willoughby			
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.

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. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(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 - Spring 2009

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.00	04/15/2009 04/15/2009	Richard Willoughby

LMR Line	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue
	Start	End						Start	End		
1	0.01	6.00	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	38.186394 ° -121.562803 °	38.129605 ° -121.578799 °		34
2	0.02	6.00	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	38.186342 ° -121.562960 °	38.129604 ° -121.578799 °		35
3	2.29	2.34	Earthen Levee	Encroachments	LS	PO	Landscaping	38.162918 ° -121.584721 °	38.162322 ° -121.585081 °		36
4	3.93	3.97	Earthen Levee	Encroachments	LS	PO	Landscaping	38.148318 ° -121.599947 °	38.147898 ° -121.600347 °		11
5	3.99	3.99	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.147597 ° -121.600528 °	38.147597 ° -121.600528 °		33
6	3.99	4.01	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes.	38.147588 ° -121.600555 °	38.147367 ° -121.600617 °		32
7	4.21	4.22	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Horsetail at toe of levee.	38.144705 ° -121.601428 °	38.144590 ° -121.601375 °		31
8	4.55	4.61	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Wild growth at toe of levee. Dense wild roses at toe of levee.	38.140525 ° -121.598330 °	38.139785 ° -121.597840 °		30
9	4.72	4.74	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Overgrowth at toe of level	38.138318 ° -121.597050 °	38.138027 ° -121.596857 °		29
10	4.84	4.84	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.136832 ° -121.595930 °	38.136832 ° -121.595930 °		28
11	4.98	4.98	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.135278 ° -121.594297 °	38.135278 ° -121.594297 °		27
12	5.17	5.17	Earthen Levee	Encroachments	WS	PO	Landscaping	38.133187 ° -121.591952 °	38.133187 ° -121.591952 °		5
13	5.35	5.35	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.131217 ° -121.589788 °	38.131217 ° -121.589788 °		26
14	5.65	5.82	Earthen Levee	Vegetation	WS	C	Remove the wild growth other than native grasses from the levee slopes.	38.129253 ° -121.585205 °	38.129567 ° -121.581963 °		25

<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

Spring 2009 Levee Inspection Results

Brannan Andrus Levee Maintenance District

Waterway		Bank	Unit Miles
Unit No. 02 Sacramento River		Left	13.30

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/15/2009 - 4/15/2009			
DWR Inspector	Richard Willoughby			
Accompanied By	Gil Lebrie DCC Engineering			
	Andy Ginnianni BALMD			

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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

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 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 - Spring 2009

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	04/15/2009 04/15/2009	Richard Willoughby

LMR Line	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue
	Start	End						Start	End		
1	0.00	10.30	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	38.191827 ° -121.567451 °	38.123083 ° -121.690495 °		939
2	0.00	10.30	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	38.191826 ° -121.567451 °	38.123078 ° -121.690497 °		940
3	0.78	0.83	Earthen Levee	Trim / Thin Trees	WS	U	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.186632 ° -121.580292 °	38.186155 ° -121.581008 °		49
4	0.81	0.83	Earthen Levee	Encroachments	LS	PO	Landscaping	38.186455 ° -121.580712 °	38.186215 ° -121.581060 °	Y	8
5	1.45	1.59	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.178973 ° -121.587640 °	38.177232 ° -121.588930 °		10
6	1.91	1.95	Earthen Levee	Encroachments	LS	CO	Landscaping	38.173120 ° -121.591505 °	38.172598 ° -121.591853 °	Y	12
7	2.14	2.22	Earthen Levee	Trim / Thin Trees	LS	C	Trim and thin trees to allow visibility of the ground and room to flood fight.	38.170115 ° -121.593708 °	38.169200 ° -121.594270 °		13
8	2.27	2.27	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.168537 ° -121.594740 °	38.168537 ° -121.594740 °		14
9	2.68	2.68	Earthen Levee	Vegetation	LS	U	Remove the wild growth other than native grasses from the levee slopes.	38.165160 ° -121.600592 °	38.165160 ° -121.600592 °		941
10	2.77	2.77	Earthen Levee	Encroachments	LS	M	Tree or limb	38.164408 ° -121.601908 °	38.164408 ° -121.601908 °	Y	17
11	3.14	3.16	Earthen Levee	Vegetation	WS	C	Remove the wild growth other than native grasses from the levee slopes.	38.162703 ° -121.608408 °	38.162715 ° -121.608622 °		50
12	3.22	3.25	Earthen Levee	Vegetation	WS	U	Remove the wild growth other than native grasses from the levee slopes.	38.162588 ° -121.609872 °	38.162605 ° -121.610270 °		51
13	3.53	3.60	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.162590 ° -121.615345 °	38.162728 ° -121.616622 °		22
14	3.75	3.79	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.163150 ° -121.619310 °	38.163320 ° -121.620018 °		26
15	3.95	3.95	Earthen Levee	Vegetation	LS	U	Remove the wild growth other than native grasses from the levee slopes.	38.164120 ° -121.622780 °	38.164120 ° -121.622780 °		27
16	4.04	4.15	Earthen Levee	Encroachments	LS	PO	Landscaping	38.164498 ° -121.624343 °	38.165167 ° -121.626273 °		59
17	4.72	4.72	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.168315 ° -121.635722 °	38.168315 ° -121.635722 °		31

<p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p>** Rating</p> <p>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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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	04/15/2009 04/15/2009	Richard Willoughby

LMR Line	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue
	Start	End						Start	End		
18	5.01	5.09	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.169610 ° -121.640752 °	38.170307 ° -121.642075 °		33
19	5.31	5.46	Earthen Levee	Vegetation	WS	U	Remove the wild growth other than native grasses from the levee slopes.	38.171950 ° -121.645140 °	38.171860 ° -121.647845 °		34
20	5.66	5.70	Earthen Levee	Vegetation	WS	U	Remove the wild growth other than native grasses from the levee slopes.	38.172262 ° -121.651447 °	38.172453 ° -121.652132 °		35
21	5.68	5.71	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.172388 ° -121.651892 °	38.172512 ° -121.652322 °		36
22	5.76	5.78	Earthen Levee	Trim / Thin Trees	LS	U	Trim trees to at least five feet above ground level.	38.172748 ° -121.653137 °	38.172873 ° -121.653553 °		37
23	5.82	6.15	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.173055 ° -121.654153 °	38.174637 ° -121.659747 °		38
24	5.92	5.92	Earthen Levee	Trim / Thin Trees	LS	U	Trim trees to at least five feet above ground level.	38.173620 ° -121.656002 °	38.173620 ° -121.656002 °		58
25	6.05	6.08	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.174548 ° -121.658002 °	38.174697 ° -121.658595 °		39
26	6.39	6.41	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.173383 ° -121.663960 °	38.173218 ° -121.664275 °		40
27	6.82	6.82	Earthen Levee	Encroachments	LS	CO	Fences	38.169008 ° -121.669420 °	38.169008 ° -121.669420 °	Y	42
28	7.16	7.16	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	38.164312 ° -121.671232 °	38.164312 ° -121.671232 °		57
29	7.84	7.84	Earthen Levee	Encroachments	WS	M	Tree or limb	38.156845 ° -121.678822 °	38.156845 ° -121.678822 °		52
30	8.35	8.71	Earthen Levee	Trim / Thin Trees	LS	U	Trim trees to at least five feet above ground level.	38.150112 ° -121.682305 °	38.144977 ° -121.683345 °		44
31	8.35	8.42	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.150045 ° -121.682373 °	38.149128 ° -121.682503 °		45
32	9.09	9.09	Earthen Levee	Vegetation	WS	U	Remove the wild growth other than native grasses from the levee slopes.	38.139882 ° -121.685618 °	38.139882 ° -121.685618 °		53
33	9.14	9.14	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.139057 ° -121.685898 °	38.139057 ° -121.685898 °		54
34	9.18	9.18	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.138533 ° -121.686122 °	38.138533 ° -121.686122 °		55

*** 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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	04/15/2009 04/15/2009	Richard Willoughby

LMR Line	Levee Mile		Category	Item	Location*	Rating**	Action/Comment	GPS Latitude/Longitude		Photo	Issue
	Start	End						Start	End		
35	9.39	9.39	Boat Survey	Boat Survey Erosion	WS	C	Inspector Comments: slumping, tension cracks, caves	°	°		938
36	9.63	9.74	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.132120 ° -121.686212 °	38.130547 ° -121.686700 °		48

*** Location**
 LS : Land Side
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2009

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	04/15/2009 04/15/2009	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.81
End Levee Mile	0.83
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping on landside slope blocking view of slope from LM .81 to 0.83	



Levee Mile Report Line	6
Start Levee Mile	1.91
End Levee Mile	1.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Landscaping on landside slope blocking view of slope from LM 1.91 to 1.95	



Levee Mile Report Line	10
Start Levee Mile	2.77
End Levee Mile	2.77
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Tree limbs at landside slope at LM 2.77	



* 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 - Spring 2009

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	04/15/2009 04/15/2009	Richard Willoughby

Levee Mile Report Line	27
Start Levee Mile	6.82
End Levee Mile	6.82
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Brick wall on landside shoulder at LM 6.82	



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