

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2012 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 2012 Levee Inspection Results

Brannan Andrus Levee Maintenance District

Waterway			Bank	Unit Miles
Unit No. 01 Georgiana Slough			Right	6.02
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/7/2012 - 3/7/2012			
DWR Inspector	Richard Willoughby			
Accompanied By	Gil Labrie DCC Engineering			

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 2012

Brannan Andrus Levee Maintenance District

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough				Right	6.02	03/07/2012 03/07/2012	Richard Willoughby

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		°	°	26
DWR ID: DWR_NA0002_01_s_2012_26									
2			Earthen Levee	Flood Preparedness & Training	WS A Ma		°	°	27
DWR ID: DWR_NA0002_01_s_2012_27									
3			Earthen Levee	Emergency Supplies & Equipment	WS A Ma		°	°	28
DWR ID: DWR_NA0002_01_s_2012_28									
4	0.00	5.84	Earthen Levee	Vegetation	LS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.129625 ° -121.581877 °	38.186328 ° -121.562925 °	5
DWR ID: DWR_NA0002_01_s_2012_5									
5	0.00	5.84	Earthen Levee	Vegetation	WS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.129627 ° -121.581877 °	38.186340 ° -121.562910 °	20
DWR ID: DWR_NA0002_01_s_2012_20									
6	0.50	0.75	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Wild roses or berryvines at landside toe.	38.182702 ° -121.570497 °	38.182198 ° -121.574877 °	1 Y
DWR ID: DWR_NA0002_01_s_2012_1									
7	1.58	1.58	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.	38.170425 ° -121.581080 °	38.172887 ° -121.580590 °	25
DWR ID: DWR_NA0002_01_s_2012_25									
8	2.25	2.25	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.	38.163460 ° -121.584406 °	38.163460 ° -121.584406 °	6
DWR ID: DWR_NA0002_01_s_2012_6									
9	2.29	2.34	Earthen Levee	Vegetation	LS U En	V6 : Landscaping	38.162918 ° -121.584721 °	38.162322 ° -121.585081 °	36 Y
DWR ID: DWR_NA0002_01_s_2012_36									
10	2.30	2.30	Earthen Levee	Encroachments	WS M Ma	FW : Firewood	38.162773 ° -121.584767 °	38.162773 ° -121.584767 °	3 Y
DWR ID: DWR_NA0002_01_s_2012_3									
11	2.36	2.36	Earthen Levee	Animal Control	LS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	38.162004 ° -121.585229 °	38.162004 ° -121.585229 °	7
DWR ID: DWR_NA0002_01_s_2012_7									
12	2.46	2.46	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.	38.161731 ° -121.585352 °	38.160542 ° -121.585892 °	8
DWR ID: DWR_NA0002_01_s_2012_8									
13	3.62	3.62	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.	38.151744 ° -121.596425 °	38.151744 ° -121.596425 °	9
DWR ID: DWR_NA0002_01_s_2012_9									
14	3.75	3.75	Earthen Levee	Encroachments	WSA/W Ma	TR : Tree or limb Inspector Comments: Downed tree on waterside slope.	38.150573 ° -121.598352 °	38.150573 ° -121.598352 °	22
DWR ID: DWR_NA0002_01_s_2012_22									

*** 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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Georgiana Slough						Right	6.02	03/07/2012 03/07/2012	Richard Willoughby	
LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	Photo
	Start	End					Start	End		
15	3.93	3.93	Earthen Levee	Vegetation	WS U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.148379 ° -121.599970 °	38.148379 ° -121.599970 °	10 Y	
DWR ID: DWR_NA0002_01_s_2012_10										
16	3.93	3.97	Earthen Levee	Vegetation	LS U En	V6 : Landscaping	38.148318 ° -121.599947 °	38.147898 ° -121.600347 °	11 Y	
DWR ID: DWR_NA0002_01_s_2012_11										
17	4.18	4.20	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.	38.145094 ° -121.601585 °	38.144817 ° -121.601477 °	12	
DWR ID: DWR_NA0002_01_s_2012_12										
18	4.25	4.28	Earthen Levee	Trim / Thin Trees	WSA/W Ma	T1 : Trim trees to at least five feet above ground level.	38.144134 ° -121.601177 °	38.143747 ° -121.600924 °	13	
DWR ID: DWR_NA0002_01_s_2012_13										
19	4.36	4.36	Earthen Levee	Trim / Thin Trees	WSA/W Ma	T1 : Trim trees to at least five feet above ground level.	38.142838 ° -121.600163 °	38.142838 ° -121.600163 °	21	
DWR ID: DWR_NA0002_01_s_2012_21										
20	4.78	4.78	Earthen Levee	Encroachments	LS M En	GA : Garbage Inspector Comments: Landowner stock pile wooden beams on landside shoulder.	38.137478 ° -121.596512 °	38.137472 ° -121.596512 °	24 Y	
DWR ID: DWR_NA0002_01_s_2012_24										
21	4.98	4.98	Earthen Levee	Trim / Thin Trees	WSA/W Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	38.135158 ° -121.594198 °	38.135158 ° -121.594198 °	14	
DWR ID: DWR_NA0002_01_s_2012_14										
22	5.11	5.11	Earthen Levee	Trim / Thin Trees	WSA/W Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	38.133759 ° -121.592598 °	38.133759 ° -121.592598 °	15	
DWR ID: DWR_NA0002_01_s_2012_15										
23	5.25	5.25	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.	38.132238 ° -121.590897 °	38.132238 ° -121.590897 °	16	
DWR ID: DWR_NA0002_01_s_2012_16										
24	5.33	5.33	Earthen Levee	Trim / Thin Trees	WS M Ma	T1 : Trim trees to at least five feet above ground level.	38.131327 ° -121.589980 °	38.131327 ° -121.589980 °	2	
DWR ID: DWR_NA0002_01_s_2012_2										
25	5.42	5.42	Earthen Levee	Encroachments	LS M Ma	TR : Tree or limb Inspector Comments: Downed tree limb on landside slope.	38.130355 ° -121.588942 °	38.130355 ° -121.588942 °	4 Y	
DWR ID: DWR_NA0002_01_s_2012_4										
26	5.46	5.57	Earthen Levee	Vegetation	LS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove vegetation at landside toe.	38.129810 ° -121.588218 °	38.129325 ° -121.586448 °	23 Y	
DWR ID: DWR_NA0002_01_s_2012_23										
27	5.63	5.67	Earthen Levee	Vegetation	WS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Wild roses or berryvines on waterside slope.	38.129240 ° -121.585328 °	38.129252 ° -121.584723 °	18 Y	
DWR ID: DWR_NA0002_01_s_2012_18										
28	5.69	5.69	Earthen Levee	Vegetation	WS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Willows on waterside slope	38.129307 ° -121.584253 °	38.129307 ° -121.584253 °	19	
DWR ID: DWR_NA0002_01_s_2012_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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough						Right	6.02	03/07/2012 03/07/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
29	5.79	5.81	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	38.129537 ° -121.582760 °	38.129599 ° -121.582155 °	17

DWR ID: DWR_NA0002_01_s_ 2012_17

*** 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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.02	03/07/2012 03/07/2012	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	0.50
End Levee Mile	0.75
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southwest at wild roses or berryvines on landside toe.	
richard_s_20120306_001.jpg	



Levee Mile Report Line	9
Start Levee Mile	2.29
End Levee Mile	2.34
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at dense landscape on waterside and landside of levee.	
richard_s_20120306_009.jpg	



Levee Mile Report Line	9
Start Levee Mile	2.29
End Levee Mile	2.34
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking west at ground cover on landside slope.	
richard_s_20120306_010.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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.02	03/07/2012 03/07/2012	Richard Willoughby

Levee Mile Report Line	9
Start Levee Mile	2.29
End Levee Mile	2.34
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking north at dense vegetation on waterside slope.

richard_s_20120306_011.jpg



Levee Mile Report Line	9
Start Levee Mile	2.29
End Levee Mile	2.34
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at dense oleander on waterside shoulder spring 2012

richard_s_20120319_159.jpg



Levee Mile Report Line	10
Start Levee Mile	2.30
End Levee Mile	2.30
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking east at firewood on waterside shoulder.

richard_s_20120306_002.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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.02	03/07/2012 03/07/2012	Richard Willoughby

Levee Mile Report Line	10
Start Levee Mile	2.30
End Levee Mile	2.30
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking south at firewood on waterside shoulder.

richard_s_20120306_003.jpg



Levee Mile Report Line	10
Start Levee Mile	2.30
End Levee Mile	2.30
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking southeast at firewood on waterside shoulder.

richard_s_20120319_158.jpg



Levee Mile Report Line	15
Start Levee Mile	3.93
End Levee Mile	3.93
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking west at dense vegetation on waterside slope.

richard_s_20120306_005.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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.02	03/07/2012 03/07/2012	Richard Willoughby

Levee Mile Report Line	15
Start Levee Mile	3.93
End Levee Mile	3.93
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking west at dense vegetation on waterside slope spring 2012.

richard_s_20120319_156.jpg



Levee Mile Report Line	16
Start Levee Mile	3.93
End Levee Mile	3.97
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking northeast at landscape on landside slope.

richard_s_20120306_006.jpg



Levee Mile Report Line	16
Start Levee Mile	3.93
End Levee Mile	3.97
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking west at dense landscape on landside slope.

richard_s_20120306_007.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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.02	03/07/2012 03/07/2012	Richard Willoughby

Levee Mile Report Line	16
Start Levee Mile	3.93
End Levee Mile	3.97
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at brushes on landside shoulder and slope.

richard_s_20120319_157.jpg



Levee Mile Report Line	20
Start Levee Mile	4.78
End Levee Mile	4.78
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northwest at wooden boards on landside shoulder.

richard_s_20120319_155.jpg



Levee Mile Report Line	25
Start Levee Mile	5.42
End Levee Mile	5.42
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southwest downed tree limb on landside slope.

richard_s_20120306_004.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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.02	03/07/2012 03/07/2012	Richard Willoughby

Levee Mile Report Line	26
Start Levee Mile	5.46
End Levee Mile	5.57
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at trees and berryvines and wildrose on landside toe.

richard_s_20120319_154.jpg



Levee Mile Report Line	27
Start Levee Mile	5.63
End Levee Mile	5.67
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking south at dense vegetation on waterside slope.

richard_s_20120306_008.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**

Unit Cover Sheet

Spring 2012 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	3/6/2012 - 3/6/2012			
DWR Inspector	Richard Willoughby			
Accompanied By	Gil Labrie DCC Engineering			

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 2012

Brannan Andrus Levee Maintenance District

Waterway					Bank	Unit Miles	Inspection Start/End		Inspector
Unit No. 02 Sacramento River					Left	13.30	03/06/2012 03/06/2012		Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End					Start	End	Photo
1	0.00	13.30	Earthen Levee	Vegetation	WS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.191608 ° -121.568553 °	° °	40
DWR ID: DWR_NA0002_02_s_2012_40									
2	0.00	13.30	Earthen Levee	Vegetation	LS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.191315 ° -121.569353 °	° °	41
DWR ID: DWR_NA0002_02_s_2012_41									
3	0.42	0.42	Earthen Levee	Encroachments	LS M En	FE : Fences	38.189212 ° -121.574757 °	38.189212 ° -121.574757 °	26
DWR ID: DWR_NA0002_02_s_2012_26									
4	0.67	0.67	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.	38.187486 ° -121.578783 °	38.187486 ° -121.578783 °	1
DWR ID: DWR_NA0002_02_s_2012_1									
5	0.78	0.83	Earthen Levee	Trim / Thin Trees	WS M Ma	T1 : Trim trees to at least five feet above ground level.	38.186535 ° -121.580395 °	38.186103 ° -121.581127 °	2 Y
DWR ID: DWR_NA0002_02_s_2012_2									
6	0.81	0.83	Earthen Levee	Vegetation	LS M En	V6 : Landscaping	38.186455 ° -121.580712 °	38.186215 ° -121.581060 °	8 Y
DWR ID: DWR_NA0002_02_s_2012_8									
7	1.44	1.44	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.	38.178950 ° -121.587717 °	38.178950 ° -121.587717 °	27 Y
DWR ID: DWR_NA0002_02_s_2012_27									
8	1.55	1.56	Earthen Levee	Vegetation	WS M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	38.174643 ° -121.659695 °	38.174642 ° -121.659688 °	43
DWR ID: DWR_NA0002_02_s_2012_43									
9	1.59	1.61	Earthen Levee	Vegetation	LS M En	V6 : Landscaping	38.177105 ° -121.589058 °	38.176837 ° -121.589225 °	35
DWR ID: DWR_NA0002_02_s_2012_35									
10	1.64	1.64	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.	38.176486 ° -121.589445 °	38.176486 ° -121.589445 °	3
DWR ID: DWR_NA0002_02_s_2012_3									
11	1.81	1.81	Earthen Levee	Vegetation	LS M En	V6 : Landscaping	38.174302 ° -121.590863 °	38.174302 ° -121.590863 °	28
DWR ID: DWR_NA0002_02_s_2012_28									
12	1.83	1.83	Earthen Levee	Encroachments	LS U En	BU : Buildings	38.174030 ° -121.590963 °	38.174030 ° -121.590963 °	34 Y
DWR ID: DWR_NA0002_02_s_2012_34									
13	1.84	1.84	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.	38.173905 ° -121.591082 °	38.173905 ° -121.591082 °	4
DWR ID: DWR_NA0002_02_s_2012_4									
14	1.91	1.95	Earthen Levee	Vegetation	LS U En	V6 : Landscaping	38.173120 ° -121.591505 °	38.172598 ° -121.591853 °	12 Y
DWR ID: DWR_NA0002_02_s_2012_12									
15	2.34	2.38	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.	38.167627 ° -121.595538 °	38.167152 ° -121.595997 °	25
DWR ID: DWR_NA0002_02_s_2012_25									

*** 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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River						Left	13.30	03/06/2012 03/06/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
16	2.48	2.48	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	38.166378 ° -121.597570 °	38.166378 ° -121.597570 °	29 Y
DWR ID: DWR_NA0002_02_s_2012_29										
17	2.53	2.63	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2009 - Short reach of vertical bank at the toe. 2010 - Large tree is getting ready to fall in. 2011: No observed change. [2011 Site ID: SAC_18-1_L]	38.165945 ° -121.599345 °	38.165498 ° -121.600080 °	17 Y
DWR ID: DWR_NA0002_02_s_2012_17										
18	2.66	2.74	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2009 - Large scallop from rotational failure. One fallen tree and one large tree with half of its root structure exposed. 2011: No observed change. [2011 Site ID: SAC_18-0_L]	38.165303 ° -121.600477 °	38.164682 ° -121.601804 °	18 Y
DWR ID: DWR_NA0002_02_s_2012_18										
19	2.93	3.13	Earthen Levee	Encroachments	LS	M En	UR : Urban	38.163317 ° -121.604813 °	38.162707 ° -121.608262 °	30 Y
DWR ID: DWR_NA0002_02_s_2012_30										
20	3.17	3.17	Earthen Levee	Trim / Thin Trees	WSA/W	Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	38.162638 ° -121.609068 °	38.162638 ° -121.609068 °	5 Y
DWR ID: DWR_NA0002_02_s_2012_5										
21	3.20	3.20	Earthen Levee	Trim / Thin Trees	WSA/W	Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	38.162643 ° -121.609616 °	38.162643 ° -121.609616 °	6 Y
DWR ID: DWR_NA0002_02_s_2012_6										
22	3.22	3.22	Earthen Levee	Trim / Thin Trees	LS A/W	Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	38.162609 ° -121.609979 °	38.162609 ° -121.609979 °	7 Y
DWR ID: DWR_NA0002_02_s_2012_7										
23	3.32	3.49	Supplemental	USACE Erosion Survey	WS	U Ma	Inspector Comments: 2009 - Fluvial erosion, into the levee slope, close to vertical bank with roadway on top. Pilings that were once at the bankline are now 30 ft out. 2010 - Very steep slope with slumps and overturned trees. 2011: Upgraded to CRITICAL. Sections of vertical slope with highway on top. Heavy vegetation in front of most of the erosion pockets. Structures built into the levee on the upstream end. [2011 Site ID: SAC_17-2_L]	38.162641 ° -121.612800 °	38.162828 ° -121.616263 °	19 Y
DWR ID: DWR_NA0002_02_s_2012_19										
24	3.53	3.60	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	38.162590 ° -121.615345 °	38.162728 ° -121.616622 °	22 Y
DWR ID: DWR_NA0002_02_s_2012_22										
25	3.62	3.70	Supplemental	USACE Erosion Survey	WS	U Ma	Inspector Comments: 2008 - Overstepped levee section with pocket erosion. Plans for repair currently in the design phase. 2010 - Very steep slope with slumps, longitudinal cracking, and overturned trees. 2011: Upgraded to CRITICAL. Sections of vertical slope with highway on top. Heavy vegetation in front of most of the erosion pockets. [2011 Site ID: SAC_16-8_L]	38.162959 ° -121.617323 °	38.163334 ° -121.619312 °	20 Y
DWR ID: DWR_NA0002_02_s_2012_20										
26	4.01	4.01	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	38.164470 ° -121.624012 °	38.164470 ° -121.624012 °	31 Y
DWR ID: DWR_NA0002_02_s_2012_31										

*** 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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River							Left	13.30	03/06/2012 03/06/2012	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
27	4.04	4.15	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping	38.164498 ° -121.624343 °	38.165167 ° -121.626273 °	59
								DWR ID: DWR_NA0002_02_s_2012_59		
28	4.47	4.47	Earthen Levee	Trim / Thin Trees	LS A/W	Ma	T1 : Trim trees to at least five feet above ground level.	38.167135 ° -121.631662 °	38.167135 ° -121.631662 °	32
								DWR ID: DWR_NA0002_02_s_2012_32		
29	5.19	5.43	Earthen Levee	Trim / Thin Trees	WS	M Ma	T1 : Trim trees to at least five feet above ground level.	38.171455 ° -121.643229 °	38.171800 ° -121.647447 °	9 Y
								DWR ID: DWR_NA0002_02_s_2012_9		
30	5.59	5.59	Earthen Levee	Trim / Thin Trees	WS	U Ma	T1 : Trim trees to at least five feet above ground level.	38.172019 ° -121.650327 °	38.172019 ° -121.650327 °	10
								DWR ID: DWR_NA0002_02_s_2012_10		
31	5.66	5.70	Earthen Levee	Vegetation	WSA/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.172308 ° -121.651552 °	38.172497 ° -121.652243 °	11
								DWR ID: DWR_NA0002_02_s_2012_11		
32	5.68	5.71	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2009 - Tension cracks on road on top of levee. Erosion into the levee slope with large mass failure scallop. 2010 - Site extended further upstream to account for additional erosion. Very steep slope with slumping. 2011: No observed change. [2011 Site ID: SAC_15-0_L]	38.172580 ° -121.651821 °	38.172733 ° -121.652499 °	21 Y
								DWR ID: DWR_NA0002_02_s_2012_21		
33	5.68	5.71	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	38.172388 ° -121.651892 °	38.172512 ° -121.652322 °	36
								DWR ID: DWR_NA0002_02_s_2012_36		
34	5.82	6.15	Earthen Levee	Vegetation	LS A/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.173130 ° -121.654285 °	38.174559 ° -121.659867 °	13
								DWR ID: DWR_NA0002_02_s_2012_13		
35	6.35	6.38	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	38.173586 ° -121.663297 °	38.173391 ° -121.663786 °	14
								DWR ID: DWR_NA0002_02_s_2012_14		
36	6.82	6.82	Earthen Levee	Encroachments	LS	U En	FE : Fences	38.169008 ° -121.669420 °	38.169008 ° -121.669420 °	42 Y
								DWR ID: DWR_NA0002_02_s_2012_42		
37	7.00	7.05	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2011: Large section of bank slumped off. [2011 Site ID: SAC_13-6_L]	38.166583 ° -121.670684 °	38.165794 ° -121.671014 °	23 Y
								DWR ID: DWR_NA0002_02_s_2012_23		
38	7.66	7.66	Earthen Levee	Encroachments	LS	M Ma	PR : Prunings	38.157055 ° -121.675445 °	38.157055 ° -121.675445 °	24 Y
								DWR ID: DWR_NA0002_02_s_2012_24		
39	8.07	8.44	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2010 - Small inlet area behind a man-built spit. Bank is slumping and could possibly be fixed with maintenance. 2011: Site continues to worsen. [2011 Site ID: SAC_12-1_L]	38.151867 ° -121.682201 °	38.148711 ° -121.682790 °	37 Y
								DWR ID: DWR_NA0002_02_s_2012_37		
40	8.35	8.71	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	38.150112 ° -121.682305 °	38.144977 ° -121.683345 °	44 Y
								DWR ID: DWR_NA0002_02_s_2012_44		

*** 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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	03/06/2012 03/06/2012	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
41	8.46	8.46	Earthen Levee	Encroachments	WS	M Ma	TR : Tree or limb	38.148323 ° -121.682548 °	38.148323 ° -121.682548 °	33
								DWR ID: DWR_NA0002_02_s_2012_33		
42	8.94	9.17	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2008 - Erosion causing vertical bank at the highway on top of levee. The whole bank along the highway should be repaired. 2009 - Minimal new erosion. 2011: Bank continues to slowly erode. [2011 Site ID: SAC_11-2_L]	38.141399 ° -121.685346 °	38.138158 ° -121.686531 °	38 Y
								DWR ID: DWR_NA0002_02_s_2012_38		
43	9.42	9.42	Earthen Levee	Trim / Thin Trees	WSA/W	M Ma	T1 : Trim trees to at least five feet above ground level.	38.135106 ° -121.686065 °	38.135106 ° -121.686065 °	15
								DWR ID: DWR_NA0002_02_s_2012_15		
44	9.68	9.74	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.131448 ° -121.686432 °	38.130537 ° -121.686737 °	16
								DWR ID: DWR_NA0002_02_s_2012_16		
45	9.72	9.94	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2004 - Wave wash pockets approximately 100 ft long with new full bank rock between the pockets. 2005 - Spot repairs, but toe is still eroding in several places. 2006 - Low vertical bank along roadway. 2007 - A PL 84-99 repair was constructed, it cover the majority of the site with the exception of the upstream 150 to 200 ft and the downstream 250 ft, therefore it is being kept in the inventory. 2009 - Minimal new erosion. 2010 - Outboard berm looks good, but the banks are still very steep. 2011: While the outboard berm is protecting against wavewash, bank still has slumping issues. [2011 Site ID: SAC_10-8_L]	38.129722 ° -121.687468 °	38.127672 ° -121.688646 °	39 Y
								DWR ID: DWR_NA0002_02_s_2012_39		

*** 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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	03/06/2012 03/06/2012	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	0.78
End Levee Mile	0.83
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking south at dense vegetation on waterside slope.

richard_s_20120319_148.jpg



Levee Mile Report Line	6
Start Levee Mile	0.81
End Levee Mile	0.83
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Landscaping on landside slope blocking view of slope from LM .81 to 0.83.

richard_s_20120306_013.jpg



Levee Mile Report Line	6
Start Levee Mile	0.81
End Levee Mile	0.83
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southeast at dense landscaping on landside slope.

richard_s_20120319_149.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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	03/06/2012 03/06/2012	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	1.44
End Levee Mile	1.44
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking southeast at dense trees on landside toe.

richard_s_20120319_150.jpg



Levee Mile Report Line	12
Start Levee Mile	1.83
End Levee Mile	1.83
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northeast pump shed on landside toe.

richard_s_20120306_030.jpg



Levee Mile Report Line	12
Start Levee Mile	1.83
End Levee Mile	1.83
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southeast at pump shed and landscaping on landside slope and toe.

richard_s_20120319_151.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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	03/06/2012 03/06/2012	Richard Willoughby

Levee Mile Report Line	14
Start Levee Mile	1.91
End Levee Mile	1.95
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Landscaping on landside slope blocking view of slope from LM 1.91 to 1.95.

richard_s_20120306_014.jpg



Levee Mile Report Line	14
Start Levee Mile	1.91
End Levee Mile	1.95
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at dense landscaping on landside slope and toe.

richard_s_20120319_152.jpg



Levee Mile Report Line	17
Start Levee Mile	2.53
End Levee Mile	2.63
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

richard_s_20120306_015.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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	03/06/2012 03/06/2012	Richard Willoughby

Levee Mile Report Line	17
Start Levee Mile	2.53
End Levee Mile	2.63
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

richard_s_20120306_016.jpg



Levee Mile Report Line	18
Start Levee Mile	2.66
End Levee Mile	2.74
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

richard_s_20120306_017.jpg



Levee Mile Report Line	18
Start Levee Mile	2.66
End Levee Mile	2.74
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

richard_s_20120306_018.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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	03/06/2012 03/06/2012	Richard Willoughby

Levee Mile Report Line	20
Start Levee Mile	3.17
End Levee Mile	3.17
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking south at overhanging tree on waterside shoulder.

richard_s_20120306_012.jpg



Levee Mile Report Line	23
Start Levee Mile	3.32
End Levee Mile	3.49
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

richard_s_20120306_019.jpg



Levee Mile Report Line	23
Start Levee Mile	3.32
End Levee Mile	3.49
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

richard_s_20120306_020.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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	03/06/2012 03/06/2012	Richard Willoughby

Levee Mile Report Line	23
Start Levee Mile	3.32
End Levee Mile	3.49
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

richard_s_20120306_021.jpg



Levee Mile Report Line	25
Start Levee Mile	3.62
End Levee Mile	3.70
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

richard_s_20120306_022.jpg



Levee Mile Report Line	25
Start Levee Mile	3.62
End Levee Mile	3.70
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

richard_s_20120306_023.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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	03/06/2012 03/06/2012	Richard Willoughby

Levee Mile Report Line	29
Start Levee Mile	5.19
End Levee Mile	5.43
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking southeast at dense trees on landside slope and toe.

richard_s_20120319_153.jpg



Levee Mile Report Line	32
Start Levee Mile	5.68
End Levee Mile	5.71
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

richard_s_20120306_024.jpg



Levee Mile Report Line	36
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.

richard_s_20120306_039.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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	03/06/2012 03/06/2012	Richard Willoughby

Levee Mile Report Line	37
Start Levee Mile	7.00
End Levee Mile	7.05
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

richard_s_20120306_025.jpg



Levee Mile Report Line	37
Start Levee Mile	7.00
End Levee Mile	7.05
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

richard_s_20120306_026.jpg



Levee Mile Report Line	37
Start Levee Mile	7.00
End Levee Mile	7.05
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

richard_s_20120306_027.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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	03/06/2012 03/06/2012	Richard Willoughby

Levee Mile Report Line	38
Start Levee Mile	7.66
End Levee Mile	7.66
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking west at prunings on landside toe.

richard_s_20120306_028.jpg



Levee Mile Report Line	38
Start Levee Mile	7.66
End Levee Mile	7.66
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking south at prunings on landside toe.

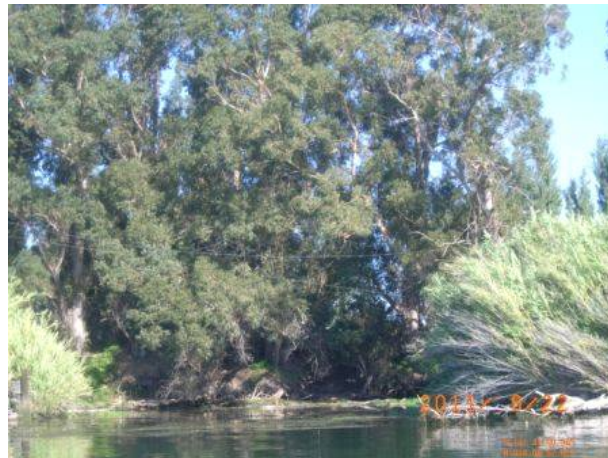
richard_s_20120306_029.jpg



Levee Mile Report Line	39
Start Levee Mile	8.07
End Levee Mile	8.44
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

richard_s_20120306_031.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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	03/06/2012 03/06/2012	Richard Willoughby

Levee Mile Report Line	39
Start Levee Mile	8.07
End Levee Mile	8.44
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

richard_s_20120306_032.jpg



Levee Mile Report Line	40
Start Levee Mile	8.35
End Levee Mile	8.71
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking southeast at trees on landside shoulder and slope.

richard_s_20120306_040.jpg



Levee Mile Report Line	42
Start Levee Mile	8.94
End Levee Mile	9.17
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

richard_s_20120306_033.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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	03/06/2012 03/06/2012	Richard Willoughby

Levee Mile Report Line	42
Start Levee Mile	8.94
End Levee Mile	9.17
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

richard_s_20120306_034.jpg



Levee Mile Report Line	42
Start Levee Mile	8.94
End Levee Mile	9.17
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

richard_s_20120306_035.jpg



Levee Mile Report Line	45
Start Levee Mile	9.72
End Levee Mile	9.94
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

richard_s_20120306_036.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 - Spring 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	03/06/2012 03/06/2012	Richard Willoughby

Levee Mile Report Line	45
Start Levee Mile	9.72
End Levee Mile	9.94
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

richard_s_20120306_037.jpg



Levee Mile Report Line	45
Start Levee Mile	9.72
End Levee Mile	9.94
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

richard_s_20120306_038.jpg

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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

+ Issue Type

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