

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start		Rating **	A	Issue No.	27		
LM End		Issue Type +	Ma	Location *	N/A		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Flood Preparedness & Training				°		°
					°		°
DWR ID	DWR_NA0002_01_s _ 2012_27						
Action/Comments							
Inspector Comments: LMA is prepared to respond to a flood emergency.							

No Photos

LM Start		Rating **	A	Issue No.	32	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Operations & Maintenance Manuals				°	°
					°	°
DWR ID	DWR_NA0002_01_s _ 2013_32					
Action/Comments						
Inspector Comments: The LMA maintains a copy of the O&M manual on file at district office.						

No Photos

LM Start		Rating **	A	Issue No.	33	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Emergency Supplies & Equipment				°	°
					°	°
DWR ID	DWR_NA0002_01_s _ 2013_33					
Action/Comments						
Inspector Comments: LMA maintains an adequate amount of flood fight supplies and equipment for flood response.						

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	0.01	Rating **	M	Issue No.	57
LM End	0.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.186401 °	38.182149 °
				-121.562749 °	-121.575786 °
DWR ID	DWR_NA0002_01_s _ 2015_57				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: LMA should apply maintenance program to control vegetation on levee slope.					

No Photos

LM Start	0.02	Rating **	M	Issue No.	58
LM End	0.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.186327 °	38.182149 °
				-121.562954 °	-121.575786 °
DWR ID	DWR_NA0002_01_s _ 2015_58				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: LMA should apply maintenance program to control vegetation on levee slope.					

No Photos

LM Start	0.39	Rating **	M	Issue No.	59
LM End	0.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.183554 °	38.183554 °
				-121.568850 °	-121.568850 °
DWR ID	DWR_NA0002_01_s _ 2015_59				
Action/Comments					
Tree or limb					
Inspector Comments: Downed tree on waterward slope.					

Photo 1 of 1 : SP\_2015\_NA0002\_62\_59\_20150313\_00053.jpg



Looking east at downed tree on waterward toe.

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	1.56	Rating **	M	Issue No.	25
LM End	1.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.172887 °	38.170425 °
				-121.580590 °	-121.581080 °
DWR ID	DWR_NA0002_01_s _ 2012_25				
Action/Comments					
Trim trees to at least five feet above ground level.					
Inspector Comments: Tree blocking levee landward toe.					

Photo 1 of 3 : SP\_2015\_NA0002\_62\_25\_20150313\_00055.jpg



Looking northwest at untrimmed tree at landward toe. (Spring 2015)

Photo 2 of 3 : SP\_2015\_NA0002\_62\_25\_20150313\_00054.jpg



Looking west at untrimmed tree at landward toe. (Spring 2015)

Photo 3 of 3 : SP\_2015\_NA0002\_62\_25\_20150309\_00020.jpg

Looking southwest at an untrimmed tree on landward slope and toe.  
(Spring 2014)

LM Start	<b>1.56</b>	Rating **	M	Issue No.	<b>25 (cont)</b>
LM End	<b>1.73</b>	Issue Type +	Ma	Location *	LS

LM Start	<b>1.56</b>	Rating **	M	Issue No.	<b>25 (cont)</b>
LM End	<b>1.73</b>	Issue Type +	Ma	Location *	LS

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	2.20	Rating **	M	Issue No.	26
LM End	2.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.164138 °	38.163797 °
				-121.584078 °	-121.584225 °
DWR ID	DWR_NA0002_01_s _ 2013_26				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Control wild growth at landside slope and toe.					

Photo 1 of 1 : SP\_2015\_NA0002\_62\_26\_20150313\_00056.jpg



Looking southwest at dense vegetation at landward toe.

LM Start	2.25	Rating **	A/W	Issue No.	6
LM End	2.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.163460 °	38.163460 °
				-121.584406 °	-121.584406 °
DWR ID	DWR_NA0002_01_s _ 2012_6				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	2.30	Rating **	M	Issue No.	3
LM End	2.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.162773 °	38.162773 °
				-121.584767 °	-121.584767 °
DWR ID	DWR_NA0002_01_s _ 2012_3				
Action/Comments					
Firewood					

Photo 1 of 3 : SP\_2015\_NA0002\_62\_3\_20150309\_00002.jpg



Looking east at firewood on waterside shoulder.

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



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	2.30	Rating **	M	Issue No.	3 (cont)	
LM End	2.30	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.162773 °		38.162773 °
				-121.584767 °		-121.584767 °
DWR ID	DWR_NA0002_01_s _ 2012_3					
Action/Comments						
Firewood						

Photo 2 of 3 : SP\_2015\_NA0002\_62\_3\_20150309\_00003.jpg



Looking southeast at firewood on waterside shoulder.

LM Start	<b>2.30</b>	Rating **	M	Issue No.	<b>3 (cont)</b>
LM End	<b>2.30</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2015\_NA0002\_62\_3\_20150309\_00004.jpg



Looking south at firewood on waterside shoulder.

LM Start	2.36	Rating **	M	Issue No.	7
LM End	2.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.162004 °	38.162004 °
				-121.585229 °	-121.585229 °
DWR ID	DWR_NA0002_01_s _ 2012_7				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	2.40	Rating **	M	Issue No.	8
LM End	2.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.161573 °	38.161573 °
				-121.585720 °	-121.585720 °
DWR ID	DWR_NA0002_01_s_2013_8				
Action/Comments					
Garbage					

Photo 1 of 1 : SP\_2015\_NA0002\_62\_8\_20150309\_00007.jpg



Looking northeast at garbage at landward toe.

LM Start	2.45	Rating **	M	Issue No.	28
LM End	2.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.160805 °	38.160281 °
				-121.585782 °	-121.586007 °
DWR ID	DWR_NA0002_01_s_2013_28				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Wild rose on landside slope and toe.					

No Photos

LM Start	2.61	Rating **	C	Issue No.	44
LM End	2.61	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.158673 °	38.158673 °
				-121.586833 °	-121.586833 °
DWR ID	DWR_NA0002_01_f_2014_44				
Action/Comments					
Repair depressions or ruts in the crown or slope. Inspector Comments: Minor depressions across crown roadway. Pipe located near the site.					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	3.00	Rating **	U	Issue No.	55
LM End	3.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation				°
					°
DWR ID	DWR_NA0002_01_s _ 2014_55				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Dense vegetation on landward toe.					

Photo 1 of 3 : SP\_2015\_NA0002\_62\_55\_20150313\_00058.jpg



Looking southwest at dense vegetation at landward toe. (Spring 2015)

LM Start	<b>3.00</b>	Rating **	U	Issue No.	<b>55 (cont)</b>
LM End	<b>3.00</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : SP\_2015\_NA0002\_62\_55\_20150313\_00059.jpg



Looking north at dense vegetation withing fifteen feet of landward toe.

LM Start	<b>3.00</b>	Rating **	U	Issue No.	<b>55 (cont)</b>
LM End	<b>3.00</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : SP\_2015\_NA0002\_62\_55\_20150309\_00035.jpg



Looking north at dense vegetation within fifteen feet of landward toe.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	3.32	Rating **	C	Issue No.	29
LM End	3.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.152052 °	38.151683 °
				-121.591500 °	-121.591662 °
DWR ID	DWR_NA0002_01_s_2013_29				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Wild roses on landside slope.					

No Photos

LM Start	3.37	Rating **	M	Issue No.	5
LM End	3.37	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.151492 °	38.151492 °
				-121.591942 °	-121.591942 °
DWR ID	DWR_NA0002_01_f_2013_5				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Remove cactus from waterward slope.					

Photo 1 of 1 : SP\_2015\_NA0002\_62\_5\_20150309\_00006.jpg



Looking south at cacti on waterward slope near Oxbow Harbor.

LM Start	3.46	Rating **	A/W	Issue No.	30
LM End	3.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.151572 °	38.149813 °
				-121.593488 °	-121.598913 °
DWR ID	DWR_NA0002_01_s_2013_30				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Willows on waterside slope.					

No Photos

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



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	3.62	Rating **	A/W	Issue No.	9
LM End	3.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.151744 °	38.151744 °
				-121.596425 °	-121.596425 °
DWR ID	DWR_NA0002_01_s _ 2012_9				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	3.93	Rating **	A/W	Issue No.	10
LM End	3.93	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.148379 °	38.148379 °
				-121.599970 °	-121.599970 °
DWR ID	DWR_NA0002_01_s _ 2012_10				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 3 : SP\_2015\_NA0002\_62\_10\_20150309\_00008.jpg



Looking west at dense vegetation on waterside slope.

Photo 2 of 3 : SP\_2015\_NA0002\_62\_10\_20150309\_00009.jpg



Looking south at dead willows on waterward slope. (Spring 2013)

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	3.93	Rating **	A/W	Issue No.	10 (cont)
LM End	3.93	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.148379 °	38.148379 °
				-121.599970 °	-121.599970 °
DWR ID	DWR_NA0002_01_s _ 2012_10				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 3 of 3 : SP\_2015\_NA0002\_62\_10\_20150309\_00010.jpg



Looking west at dense vegetation on waterside slope spring 2012.

LM Start	4.18	Rating **	A/W	Issue No.	12
LM End	4.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.145094 °	38.144817 °
				-121.601585 °	-121.601477 °
DWR ID	DWR_NA0002_01_s _ 2012_12				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	4.25	Rating **	A/W	Issue No.	13
LM End	4.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.144134 °	38.143747 °
				-121.601177 °	-121.600924 °
DWR ID	DWR_NA0002_01_s _ 2012_13				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	4.36	Rating **	A/W	Issue No.	21
LM End	4.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.142838 °	38.142838 °
				-121.600163 °	-121.600163 °
DWR ID	DWR_NA0002_01_s _ 2012_21				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	4.97	Rating **	M	Issue No.	1
LM End	4.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.135235 °	38.135235 °
				-121.594275 °	-121.594275 °
DWR ID	DWR_NA0002_01_s _ 2015_1				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Wild rose on landward slope and toe.					

Photo 1 of 1 : SP\_2015\_NA0002\_62\_1\_20150313\_00060.jpg



Looking west at dense vegetation at landward toe. (Spring 2015)

LM Start	4.98	Rating **	A/W	Issue No.	14
LM End	4.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.135158 °	38.135158 °
				-121.594198 °	-121.594198 °
DWR ID	DWR_NA0002_01_s _ 2012_14				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

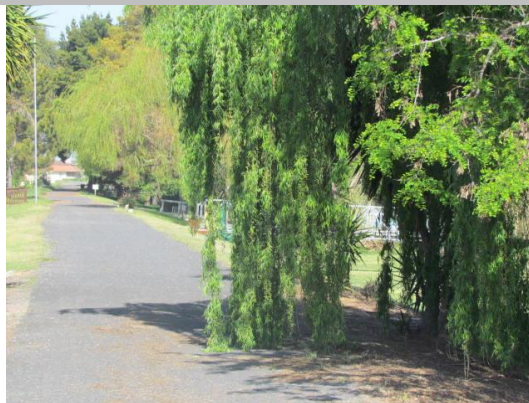
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	5.11	Rating **	A/W	Issue No.	15
LM End	5.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.133759 °	38.133759 °
				-121.592598 °	-121.592598 °
DWR ID	DWR_NA0002_01_s _ 2012_15				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

LM Start	5.17	Rating **	A/W	Issue No.	31
LM End	5.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.133145 °	38.133145 °
				-121.591895 °	-121.591895 °
DWR ID	DWR_NA0002_01_s _ 2013_31				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

Photo 1 of 1 : SP\_2015\_NA0002\_62\_31\_20150309\_00022.jpg



Looking north at overhanging tree limbs on landward shoulder.

LM Start	5.33	Rating **	M	Issue No.	2
LM End	5.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.131327 °	38.131327 °
				-121.589980 °	-121.589980 °
DWR ID	DWR_NA0002_01_s _ 2012_2				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

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



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	5.42	Rating **	C	Issue No.	4
LM End	5.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.130355 °	38.130355 °
				-121.588942 °	-121.588942 °
DWR ID	DWR_NA0002_01_s _ 2012_4				
Action/Comments					
Tree or limb					
Inspector Comments: Tree limb on landside slope.					

No Photos

LM Start	5.42	Rating **	M	Issue No.	54
LM End	5.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees				°
					°
DWR ID	DWR_NA0002_01_s _ 2014_54				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

No Photos

LM Start	5.47	Rating **	M	Issue No.	23
LM End	5.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.129810 °	38.129415 °
				-121.588218 °	-121.586807 °
DWR ID	DWR_NA0002_01_s _ 2012_23				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Remove vegetation at landside toe.					

Photo 1 of 3 : SP\_2015\_NA0002\_62\_23\_20150309\_00016.jpg



Looking south at trees, berry vines, and wild rose on landside toe.

* Location LS : Land Side    N/A : Not Applicable 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	
---	--	--	--	--	--

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015**

**Brannan Andrus Levee Maintenance District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	5.47	Rating **	M	Issue No.	23 (cont)
LM End	5.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.129810 °	38.129415 °
				-121.588218 °	-121.586807 °
DWR ID	DWR_NA0002_01_s _ 2012_23				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Remove vegetation at landside toe.					

Photo 2 of 3 : SP\_2015\_NA0002\_62\_23\_20150309\_00017.jpg



Looking east at dense vegetation on landward toe.

LM Start	<b>5.47</b>	Rating **	M	Issue No.	<b>23 (cont)</b>
LM End	<b>5.56</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : SP\_2015\_NA0002\_62\_23\_20150309\_00018.jpg



Looking south at dense berry vines and trees on the landward slope and toe.

LM Start	5.64	Rating **	M	Issue No.	18
LM End	5.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.129240 °	38.129252 °
				-121.585328 °	-121.584723 °
DWR ID	DWR_NA0002_01_s _ 2012_18				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Wild roses or berry vines on waterside slope.					

Photo 1 of 1 : SP\_2015\_NA0002\_62\_18\_20150309\_00014.jpg



Looking south at dense vegetation on waterside slope.

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	5.70	Rating **	A/W	Issue No.	19
LM End	5.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.129307 °	38.129307 °
				-121.584253 °	-121.584253 °
DWR ID	DWR_NA0002_01_s _ 2012_19				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Willows on waterside slope					

No Photos

LM Start	5.72	Rating **	M	Issue No.	53
LM End	5.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments				o
					o
DWR ID	DWR_NA0002_01_s _ 2014_53				
Action/Comments					
Material Inspector Comments: Concrete slabs on water ward berm area. Possible undermining. The Slab should be removed or broken up in place to meet Title 23 standard for Rip Rap.					

Photo 1 of 4 : SP\_2015\_NA0002\_62\_53\_20150309\_00031.jpg



Looking north at a collapsed concrete slab on waterward berm.

Photo 2 of 4 : SP\_2015\_NA0002\_62\_53\_20150309\_00032.jpg



Looking south at south end of a concrete slab on waterward berm.

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



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	5.72	Rating **	M	Issue No.	53 (cont)		
LM End	5.72	Issue Type +	Ma	Location *	WS		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start	End		
Item	Encroachments				°		°
					°		°
DWR ID	DWR_NA0002_01_s_2014_53						
Action/Comments							
Material							
Inspector Comments: Concrete slabs on water ward berm area.							
Possible undermining. The Slab should be removed or broken up in							
place to meet Title 23 standard for Rip Rap.							

Photo 3 of 4 : SP\_2015\_NA0002\_62\_53\_20150309\_00033.jpg



Looking north at a collapsed concrete slab on waterward berm.

Photo 4 of 4 : SP\_2015\_NA0002\_62\_53\_20150309\_00034.jpg



Looking south at a collapsed concrete slab on waterward berm.

LM Start	5.75	Rating **	A/W	Issue No.	34
LM End	5.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.129462 °	38.129608 °
				-121.583337 °	-121.582085 °
DWR ID	DWR_NA0002_01_f_2013_34				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Remove berryvine from waterward slope.					

No Photos

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



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	03/11/2015 03/11/2015	Richard Willoughby

LM Start	5.78	Rating **	M	Issue No.	17
LM End	5.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.129537 °	38.129599 °
				-121.582760 °	-121.582155 °
DWR ID	DWR_NA0002_01_s_2012_17				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	5.88	Rating **	M	Issue No.	51
LM End	5.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.129722 °	38.129722 °
				-121.580823 °	-121.580823 °
DWR ID	DWR_NA0002_01_f_2014_51				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	0.04	Rating **	M	Issue No.	94
LM End	10.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.191700 °	38.123283 °
				-121.568299 °	-121.690464 °
DWR ID	DWR_NA0002_02_s _ 2015_94				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	0.07	Rating **	M	Issue No.	95
LM End	11.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.191475 °	38.112617 °
				-121.568947 °	-121.697641 °
DWR ID	DWR_NA0002_02_s _ 2015_95				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	0.49	Rating **	M	Issue No.	40
LM End	0.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.188871 °	38.188871 °
				-121.575775 °	-121.575775 °
DWR ID	DWR_NA0002_02_f _ 2013_40				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Berryvines at landward toe.					

Photo 1 of 3 : SP\_2015\_NA0002\_63\_40\_20150309\_00037.jpg



Looking southeast at berryvines at landward toe.

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	0.49	Rating **	M	Issue No.	40 (cont)
LM End	0.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.188871 °	38.188871 °
				-121.575775 °	-121.575775 °
DWR ID	DWR_NA0002_02_f_2013_40				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Berryvines at landward toe.					

Photo 2 of 3 : SP\_2015\_NA0002\_63\_40\_20150309\_00038.jpg



Looking east at berryvines at landward toe.

LM Start	<b>0.49</b>	Rating **	M	Issue No.	<b>40 (cont)</b>
LM End	<b>0.49</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : SP\_2015\_NA0002\_63\_40\_20150309\_00039.jpg



Looking northeast at berryvines at landward toe.

LM Start	0.66	Rating **	M	Issue No.	1
LM End	0.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.187672 °	38.187672 °
				-121.578496 °	-121.578496 °
DWR ID	DWR_NA0002_02_s_2012_1				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	0.79	Rating **	U	Issue No.	2
LM End	0.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.186535 °	38.186103 °
				-121.580395 °	-121.581127 °
DWR ID	DWR_NA0002_02_s _ 2012_2				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 2 : SP\_2015\_NA0002\_63\_2\_20150309\_00001.jpg



Looking north at dense vegetation on waterward slope.

LM Start	<b>0.79</b>	Rating **	U	Issue No.	<b>2 (cont)</b>
LM End	<b>0.84</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2015\_NA0002\_63\_2\_20150309\_00002.jpg



Looking south at dense vegetation on waterside slope.

LM Start	1.16	Rating **	C	Issue No.	41
LM End	1.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.182465 °	38.182465 °
				-121.584957 °	-121.584957 °
DWR ID	DWR_NA0002_02_f _ 2013_41				
Action/Comments					
Garbage					
Inspector Comments: Trash (sofa) on waterward slope.					

No Photos

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



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	1.40	Rating **	M	Issue No.	96
LM End	1.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.179543 °	38.179543 °
				-121.587226 °	-121.587226 °
DWR ID	DWR_NA0002_02_s _ 2015_96				
Action/Comments					
Tree or limb Inspector Comments: Broken tree branch on landward toe.					

Photo 1 of 1 : SP\_2015\_NA0002\_63\_96\_20150313\_00095.jpg



Looking east at broken tree limb at landward toe.

LM Start	1.60	Rating **	M	Issue No.	35
LM End	1.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.177105 °	38.176837 °
				-121.589058 °	-121.589225 °
DWR ID	DWR_NA0002_02_s _ 2012_35				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	1.64	Rating **	A/W	Issue No.	3
LM End	1.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.176486 °	38.176486 °
				-121.589445 °	-121.589445 °
DWR ID	DWR_NA0002_02_s _ 2012_3				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	1.69	Rating **	M	Issue No.	97
LM End	1.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.175957 °	38.175957 °
				-121.589837 °	-121.589837 °
DWR ID	DWR_NA0002_02_f_2014_97				
Action/Comments					
Tree or limb					
Inspector Comments: Tree limbs discarded on landward slope.					

Photo 1 of 2 : SP\_2015\_NA0002\_63\_97\_20150309\_00056.jpg



Looking southeast at tree limb on landward slope.

LM Start	<b>1.69</b>	Rating **	M	Issue No.	<b>97 (cont)</b>
LM End	<b>1.69</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2015\_NA0002\_63\_97\_20150309\_00057.jpg



Looking northeast at tree limb on landward slope.

LM Start	1.75	Rating **	M	Issue No.	108
LM End	1.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.175073 °	38.175073 °
				-121.590350 °	-121.590350 °
DWR ID	DWR_NA0002_02_s_2015_108				
Action/Comments					
Tree or limb					
Inspector Comments: Old fallen tree on landward shoulder and slope.					
Fallen tree left a 24" by 12" hole on landward shoulder and slope.					

Photo 1 of 2 : SP\_2015\_NA0002\_63\_108\_20150313\_00096.jpg



Looking northeast at fallen tree and hole on landward shoulder. (Spring 2015)

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



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	1.75	Rating **	M	Issue No.	108 (cont)	
LM End	1.75	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.175073 °	38.175073 °	
				-121.590350 °	-121.590350 °	
DWR ID	DWR_NA0002_02_s _ 2015_108					
Action/Comments						
Tree or limb						
Inspector Comments: Old fallen tree on landward shoulder and slope.						
Fallen tree left a 24" by 12" hole on landward shoulder and slope.						

Photo 2 of 2 : SP\_2015\_NA0002\_63\_108\_20150313\_00097.jpg



Looking southeast at fallen tree and hole on landward shoulder and slope. (Spring 2015).

LM Start	1.80	Rating **	U	Issue No.	109
LM End	1.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.174526 °	38.174526 °
				-121.590715 °	-121.590715 °
DWR ID	DWR_NA0002_02_s _ 2015_109				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Forty-eight inch by eighteen inch diameter hole on landward shoulder cause by fallen tree.					

Photo 1 of 4 : SP\_2015\_NA0002\_63\_109\_20150313\_00098.jpg



Looking north at hole and tree stump on landward shoulder. (Spring 2015)

LM Start	<b>1.80</b>	Rating **	U	Issue No.	<b>109 (cont)</b>
LM End	<b>1.80</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 4 : SP\_2015\_NA0002\_63\_109\_20150313\_00099.jpg



Looking east at tree stump on landward slope. (Spring 2015).

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	1.80	Rating **	U	Issue No.	109 (cont)
LM End	1.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.174526 °	38.174526 °
				-121.590715 °	-121.590715 °
DWR ID	DWR_NA0002_02_s_2015_109				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Forty-eight inch by eighteen inch diameter hole on landward shoulder cause by fallen tree.					

Photo 3 of 4 : SP\_2015\_NA0002\_63\_109\_20150313\_00100.jpg



Looking south at hole at landward shoulder. (Spring 2015)

LM Start	<b>1.80</b>	Rating **	U	Issue No.	<b>109 (cont)</b>
LM End	<b>1.80</b>	Issue Type +	Ma	Location *	LS

Photo 4 of 4 : SP\_2015\_NA0002\_63\_109\_20150313\_00101.jpg



Looking southeast at tree stump on landward slope. (Spring 2015).

LM Start	1.80	Rating **	U	Issue No.	45
LM End	1.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.174437 °	38.174153 °
				-121.590786 °	-121.590980 °
DWR ID	DWR_NA0002_02_f_2013_45				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Dense vegetation on landward slope and toe					

Photo 1 of 2 : SP\_2015\_NA0002\_63\_45\_20150309\_00043.jpg



Looking southeast at dense vegetation on landward slope.

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



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	1.80	Rating **	U	Issue No.	45 (cont)
LM End	1.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.174437 °	38.174153 °
				-121.590786 °	-121.590980 °
DWR ID	DWR_NA0002_02_f_2013_45				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Dense vegetation on landward slope and toe					

Photo 2 of 2 : SP\_2015\_NA0002\_63\_45\_20150309\_00044.jpg



Looking north at dense vegetation on landward slope and toe.

LM Start	1.84	Rating **	A/W	Issue No.	4
LM End	1.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.173905 °	38.173905 °
				-121.591082 °	-121.591082 °
DWR ID	DWR_NA0002_02_s_2012_4				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	2.34	Rating **	U	Issue No.	25
LM End	2.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.167627 °	38.167152 °
				-121.595538 °	-121.595997 °
DWR ID	DWR_NA0002_02_s_2012_25				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 1 : SP\_2015\_NA0002\_63\_25\_20150313\_00102.jpg



Looking southeast at trees at landward shoulder. (Spring 2015)

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	2.42	Rating **	M	Issue No.	99
LM End	2.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.166772 °	38.166772 °
				-121.596667 °	-121.596667 °
DWR ID	DWR_NA0002_02_s_2014_99				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Dense willows on landward slope.					

No Photos

LM Start	2.58	Rating **	M	Issue No.	58
LM End	2.63	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.165945 °	38.165498 °
				-121.599345 °	-121.600080 °
DWR ID	DWR_NA0002_02_f_2014_58				
Action/Comments					
Inspector Comments: 2009 - Short reach of vertical bank at the toe. 2010 - Large tree is getting ready to fall in. 2013: No observed changes. [2013 Site ID: SAC_18-1_L]					

No Photos

LM Start	2.65	Rating **	M	Issue No.	38
LM End	2.74	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.165303 °	38.164682 °
				-121.600477 °	-121.601804 °
DWR ID	DWR_NA0002_02_f_2014_38				
Action/Comments					
Inspector Comments: 2009 - Large scallop from rotational failure. One fallen tree and one large tree with half of its root structure exposed. 2013: No observed changes. [2013 Site ID: SAC_18-0_L]					

Photo 1 of 2 : SP\_2015\_NA0002\_63\_38\_20150309\_00034.jpg



USACE 2013 Photo #1

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	2.65	Rating **	M	Issue No.	38 (cont)
LM End	2.74	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.165303 °	38.164682 °
				-121.600477 °	-121.601804 °
DWR ID	DWR_NA0002_02_f_2014_38				
Action/Comments					
Inspector Comments: 2009 - Large scallop from rotational failure. One fallen tree and one large tree with half of its root structure exposed. 2013: No observed changes. [2013 Site ID: SAC_18-0_L]					

Photo 2 of 2 : SP\_2015\_NA0002\_63\_38\_20150309\_00035.jpg



USACE 2013 Photo #2

LM Start	3.13	Rating **	M	Issue No.	104
LM End	3.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.162718 °	38.162718 °
				-121.608452 °	-121.608452 °
DWR ID	DWR_NA0002_02_f_2014_104				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Bamboo reestablishing on waterward slope.					

Photo 1 of 1 : SP\_2015\_NA0002\_63\_104\_20150309\_00061.jpg



Looking southwest at bamboo on waterward slope.

LM Start	3.17	Rating **	M	Issue No.	5
LM End	3.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.162638 °	38.162638 °
				-121.609068 °	-121.609068 °
DWR ID	DWR_NA0002_02_s_2012_5				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

Photo 1 of 2 : SP\_2015\_NA0002\_63\_5\_20150309\_00003.jpg



Looking south at overhanging tree on waterward shoulder. (Fall 2014)

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



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	3.17	Rating **	M	Issue No.	5 (cont)	
LM End	3.17	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			38.162638 °	38.162638 °	
				-121.609068 °	-121.609068 °	
DWR ID	DWR_NA0002_02_s _ 2012_5					
Action/Comments						
Trim trees over roadway to at least 12 feet above ground level.						

Photo 2 of 2 : SP\_2015\_NA0002\_63\_5\_20150309\_00004.jpg



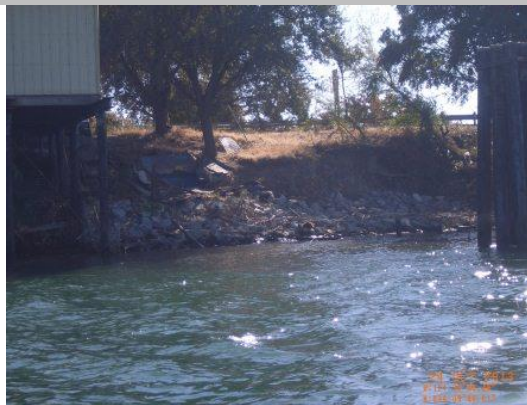
Looking south at overhanging tree on waterside shoulder.

LM Start	3.20	Rating **	A/W	Issue No.	6
LM End	3.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.162643 °	38.162643 °
				-121.609616 °	-121.609616 °
DWR ID	DWR_NA0002_02_s _ 2012_6				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

LM Start	3.37	Rating **	U	Issue No.	37
LM End	3.56	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.162641 °	38.162828 °
				-121.612800 °	-121.612623 °
DWR ID	DWR_NA0002_02_f _ 2014_37				
Action/Comments					
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. 2012 - Site continues to worsen. 2013: Some rock added on the upstream end, but site remains critical. [2013 Site ID: SAC_17-2_L]					

Photo 1 of 2 : SP\_2015\_NA0002\_63\_37\_20150309\_00032.jpg



USACE 2013 Photo #1

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



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	3.37	Rating **	U	Issue No.	37 (cont)
LM End	3.56	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.162641 °	38.162828 °
				-121.612800 °	-121.616263 °
DWR ID	DWR_NA0002_02_f_2014_37				
Action/Comments					
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. 2012 - Site continues to worsen. 2013: Some rock added on the upstream end, but site remains critical. [2013 Site ID: SAC_17-2_L]					

Photo 2 of 2 : SP\_2015\_NA0002\_63\_37\_20150309\_00033.jpg



USACE 2013 Photo #2

LM Start	3.39	Rating **	M	Issue No.	100
LM End	3.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.162394 °	38.162432 °
				-121.613146 °	-121.613637 °
DWR ID	DWR_NA0002_02_s_2014_100				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Bamboo on waterward slope.					

No Photos

LM Start	3.51	Rating **	M	Issue No.	22
LM End	3.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.162590 °	38.162728 °
				-121.615345 °	-121.616622 °
DWR ID	DWR_NA0002_02_s_2012_22				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	3.62	Rating **	U	Issue No.	23
LM End	3.73	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.162959 °	38.163334 °
				-121.617323 °	-121.619312 °
DWR ID	DWR_NA0002_02_f_2014_23				
Action/Comments					
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. 2013: No observed changes. [2013 Site ID: SAC_16-8_L]					

Photo 1 of 1 : SP\_2015\_NA0002\_63\_23\_20150309\_00021.jpg



USACE 2013 Photo #1

LM Start	3.96	Rating **	M	Issue No.	102
LM End	3.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.164246 °	38.164246 °
				-121.623272 °	-121.623272 °
DWR ID	DWR_NA0002_02_s_2014_102				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	5.31	Rating **	U	Issue No.	9
LM End	5.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.171878 °	38.171800 °
				-121.645552 °	-121.647447 °
DWR ID	DWR_NA0002_02_s_2012_9				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 3 : SP\_2015\_NA0002\_63\_9\_20150309\_00008.jpg



Looking southeast at dense trees on landside slope and toe.

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	5.31	Rating **	U	Issue No.	9 (cont)	
LM End	5.42	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			38.171878 °	38.171800 °	
				-121.645552 °	-121.647447 °	
DWR ID	DWR_NA0002_02_s _ 2012_9					
Action/Comments						
Thin trees to allow visibility of the ground and room to flood fight.						

Photo 2 of 3 : SP\_2015\_NA0002\_63\_9\_20150309\_00009.jpg



Looking northwest at dense trees on waterward shoulder and slope.

Photo 3 of 3 : SP\_2015\_NA0002\_63\_9\_20150309\_00010.jpg



Looking west at dense trees on waterward should and slope.

LM Start	5.58	Rating **	A/W	Issue No.	10
LM End	5.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.172019 °	38.172019 °
				-121.650327 °	-121.650327 °
DWR ID	DWR_NA0002_02_s _ 2012_10				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	5.65	Rating **	A/W	Issue No.	11
LM End	5.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.172308 °	38.172497 °
				-121.651552 °	-121.652243 °
DWR ID	DWR_NA0002_02_s _ 2012_11				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Bamboo on waterward slope.					

Photo 1 of 1 : SP\_2015\_NA0002\_63\_11\_20150309\_00011.jpg



LM Start	5.66	Rating **	A/W	Issue No.	36
LM End	5.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.172388 °	38.172512 °
				-121.651892 °	-121.652322 °
DWR ID	DWR_NA0002_02_s _ 2012_36				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	6.23	Rating **	M	Issue No.	110
LM End	6.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.174182 °	38.174182 °
				-121.661633 °	-121.661633 °
DWR ID	DWR_NA0002_02_s _ 2015_110				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

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



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	6.98	Rating **	M	Issue No.	20
LM End	7.04	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.166583 °	38.165794 °
				-121.670684 °	-121.671014 °
DWR ID	DWR_NA0002_02_f_2014_20				
Action/Comments					
Inspector Comments: 2011 - Large section of bank slumped off. 2013: No observed changes. [2013 Site ID: SAC_13-6_L]					

Photo 1 of 1 : SP\_2015\_NA0002\_63\_20\_20150309\_00020.jpg



USACE 2013 Photo #1

LM Start	7.80	Rating **	M	Issue No.	106
LM End	7.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.157007 °	38.157007 °
				-121.678695 °	-121.678695 °
DWR ID	DWR_NA0002_02_f_2014_106				
Action/Comments					
Tree or limb					
Inspector Comments: Broken tree branch on landward shoulder.					

Photo 1 of 1 : SP\_2015\_NA0002\_63\_106\_20150309\_00063.jpg



Looking southeast at broken tree limb on landward shoulder.

LM Start	8.18	Rating **	C	Issue No.	103
LM End	8.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.152089 °	38.152089 °
				-121.681404 °	-121.681404 °
DWR ID	DWR_NA0002_02_s_2014_103				
Action/Comments					
Pipe					
Inspector Comments: Disgarded steel pipe on landward slope.					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	8.20	Rating **	M	Issue No.	19
LM End	8.42	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.151867 °	38.148711 °
				-121.682201 °	-121.682790 °
DWR ID	DWR_NA0002_02_f_2014_19				
Action/Comments					
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. 2013: No observed changes. [2013 Site ID: SAC_12-1_L]					

Photo 1 of 1 : SP\_2015\_NA0002\_63\_19\_20150309\_00019.jpg



USACE 2013 Photo #1

LM Start	8.32	Rating **	M	Issue No.	44
LM End	8.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.150112 °	38.144977 °
				-121.682305 °	-121.683345 °
DWR ID	DWR_NA0002_02_s_2012_44				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP\_2015\_NA0002\_63\_44\_20150309\_00042.jpg



Looking southeast at trees on landside shoulder and slope.

LM Start	8.40	Rating **	M	Issue No.	57
LM End	8.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.149000 °	38.149000 °
				-121.682479 °	-121.682479 °
DWR ID	DWR_NA0002_02_f_2013_57				
Action/Comments					
Tree or limb					
Inspector Comments: Tree limbs on waterward slope.					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	8.44	Rating **	M	Issue No.	33
LM End	8.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.148323 °	38.148323 °
				-121.682548 °	-121.682548 °
DWR ID	DWR_NA0002_02_s _ 2012_33				
Action/Comments					
Tree or limb					

No Photos

LM Start	8.65	Rating **	U	Issue No.	48
LM End	8.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.145368 °	38.142430 °
				-121.683072 °	-121.683978 °
DWR ID	DWR_NA0002_02_s _ 2013_48				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 2 : SP\_2015\_NA0002\_63\_48\_20150309\_00046.jpg



Looking south at trees on landward slope.

LM Start	<b>8.65</b>	Rating **	U	Issue No.	<b>48 (cont)</b>
LM End	<b>8.66</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2015\_NA0002\_63\_48\_20150309\_00047.jpg



Looking north at dense trees on landward slope and toe.

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



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	8.90	Rating **	A/W	Issue No.	47
LM End	8.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.141928 °	38.141928 °
				-121.684308 °	-121.684308 °
DWR ID	DWR_NA0002_02_s_2013_47				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	8.94	Rating **	U	Issue No.	18
LM End	9.18	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.141399 °	38.138158 °
				-121.685346 °	-121.686531 °
DWR ID	DWR_NA0002_02_f_2014_18				
Action/Comments					
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. 2012 - Upgrade to critical, new erosion since lat year and steeper slopes in sections. 2013: No observed changes. [2013 Site ID: SAC_11-2_L]					

Photo 1 of 1 : SP\_2015\_NA0002\_63\_18\_20150309\_00018.jpg



USACE 2013 Photo #1

LM Start	9.57	Rating **	M	Issue No.	16
LM End	9.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.132499 °	38.130537 °
				-121.686135 °	-121.686737 °
DWR ID	DWR_NA0002_02_s_2012_16				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 2 : SP\_2015\_NA0002\_63\_16\_20150309\_00015.jpg



Looking south at dense vegetation on waterward shoulder and slope.

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



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

### Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	03/12/2015 03/12/2015	Richard Willoughby

LM Start	9.57	Rating **	M	Issue No.	16 (cont)
LM End	9.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.132499 °	38.130537 °
				-121.686135 °	-121.686737 °
DWR ID	DWR_NA0002_02_s_2012_16				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 2 of 2 : SP\_2015\_NA0002\_63\_16\_20150309\_00016.jpg



Looking west at dense vegetation on waterward shoulder and slope.

LM Start	9.78	Rating **	M	Issue No.	17
LM End	9.93	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.129722 °	38.127672 °
				-121.687468 °	-121.688646 °
DWR ID	DWR_NA0002_02_f_2014_17				
Action/Comments					
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 wave wash, bank still has slumping issues. 2013: No observed changes. [2013 Site ID: SAC_10-8_L]					

Photo 1 of 1 : SP\_2015\_NA0002\_63\_17\_20150309\_00017.jpg



USACE 2013 Photo #1

LM Start	10.26	Rating **	M	Issue No.	107
LM End	10.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.123119 °	38.123119 °
				-121.690488 °	-121.690488 °
DWR ID	DWR_NA0002_02_f_2014_107				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Bamboo on waterward slope.					

No Photos

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