

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2019 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. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2019 Levee Inspection Results

Brannan Andrus Levee Maintenance District

Waterway			Bank	Unit Miles
Unit No. 01 Georgiana Slough			Right	6.01
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/23/2019 - 4/23/2019			
DWR Inspector	David Julian			
Accompanied By				

Summer & Winter Inspections

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

DWR must be informed on the:

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

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

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				
Comment Code					
Inspector Comment					
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				
Comment Code					
Inspector Comment					
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				
Comment Code					
Inspector Comment					
LMA maintains an adequate amount of flood fight supplies and equipment for flood response.					

No Photos

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	0.02	Rating **	M	Issue No.	37
LM End	2.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.186351 °	38.163473 °
				-121.562967 °	-121.584398 °
DWR ID	DWR_NA0002_01_s_2019_37				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Maintain annual vegetation					

Photo 1 of 1 : SP_2019_NA0002_62_37_20190423_00096.jpg



View looking downstream at annual vegetation on the landside slope (Spring 2019).

LM Start	0.02	Rating **	M	Issue No.	35
LM End	2.25	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.186351 °	38.163473 °
				-121.562968 °	-121.584397 °
DWR ID	DWR_NA0002_01_s_2019_35				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Maintain annual vegetation					

Photo 1 of 1 : SP_2019_NA0002_62_35_20190423_00095.jpg



View looking downstream at annual vegetation on the waterside slope (Spring 2019).

LM Start	0.36	Rating **	C	Issue No.	40
LM End	0.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.183878 °	38.183878 °
				-121.568290 °	-121.568290 °
DWR ID	DWR_NA0002_01_f_2018_40				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	0.49	Rating **	M	Issue No.	38
LM End	0.75	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.182760 °	38.182217 °
				-121.570358 °	-121.574883 °
DWR ID	DWR_NA0002_01_s_2019_38				
Comment Code					
DT : Ditch					
Inspector Comment					
Ditch at landside toe					

Photo 1 of 1 : SP_2019_NA0002_62_38_20190423_00097.jpg



View looking downstream at ditch at the landside toe (Spring 2019).

LM Start	0.50	Rating **	M	Issue No.	41
LM End	0.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.182700 °	38.182258 °
				-121.570470 °	-121.571647 °
DWR ID	DWR_NA0002_01_f_2018_41				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove blackberries before they get established.					

Photo 1 of 1 : SP_2019_NA0002_62_41_20190311_00024.jpg



View looking slightly downstream of newly established black berries (October 2018).

* 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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	0.61	Rating **	M	Issue No.	91
LM End	0.61	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.182213 °	38.182213 °
				-121.572357 °	-121.572357 °
DWR ID	21752				
Comment Code					
Inspector Comment					
FS_ID:13560					
DS_ID:21752					
EP_NO: 2015					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: This pipe appears abandoned and should be removed.					
FIELD_STRUCT_DESC: 2-inch galvanized iron wastewater pipe through the levee, 2 feet below the crown. Gas well drain. (Permit No. 2015, 1954 - Brazos Oil and Gas Company). [Additional Reference(s): DWR Levee Log, 2005].					
FS Date: 5/16/2013					

Photo 1 of 3 : UCIP_SP_2019_13560_22173.jpg



Pipe in grass on WS slope.

LM Start	0.61	Rating **	M	Issue No.	91 (cont)
LM End	0.61	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2019_13560_22172.jpg



Pipe in grass on WS slope.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	0.61	Rating **	M	Issue No.	91 (cont)	
LM End	0.61	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.182213 °	38.182213 °	
				-121.572357 °	-121.572357 °	
DWR ID	21752					
Comment Code						
Inspector Comment						
FS_ID:13560						
DS_ID:21752						
EP_NO: 2015						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: This pipe appears abandoned and should be removed.						
FIELD_STRUCT_DESC: 2-inch galvanized iron wastewater pipe through the levee, 2 feet below the crown. Gas well drain. (Permit No. 2015, 1954 - Brazos Oil and Gas Company). [Additional Reference(s): DWR Levee Log, 2005].						
FS Date: 5/16/2013						

Photo 3 of 3 : UCIP_SP_2019_13560_22171.jpg



Pipe on LS slope.

LM Start	0.75	Rating **	M	Issue No.	92
LM End	0.75	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.182212 °	38.182212 °
				-121.574987 °	-121.574987 °
DWR ID	21753				
Comment Code					
Inspector Comment					
FS_ID:15984 DS_ID:21753 EP_NO: 11232 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to locate any appurtances other than distro box. Need to verify proper abandonment. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 3.2 feet below the crown. Siphon breaker on the landside (LS) slope. Concrete distribution box located LS of the toe. 2-inch primer valve. (Automatic Board Order (ABO) issued as Permit No. 11232, 1975 - Mario Campi). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""R"" 279+70) Drawing No. 50-4-2631]. FS Date: 5/16/2013					

Photo 1 of 1 : UCIP_SP_2019_15984_26969.jpg



Concrete distribution box on LS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	1.22	Rating **	M	Issue No.	93
LM End	1.22	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.177669 °	38.177669 °
				-121.580222 °	-121.580222 °
DWR ID	21754				
Comment Code					
Inspector Comment					
FS_ID:13558 DS_ID:21754 EP_NO: 11234 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 1 of 2: 8-inch steel irrigation pipe through the levee, 4.3 feet below the crown. Pump in pump house on the waterside (WS) berm. 60-inch diameter concrete standpipe on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 11234, 1975 - Anthony and John Correia). [Additional Reference(s): USACE Sacramento O&M Manual 103, June 1954, (Station ""R"" 255+00) Drawing No. 50-4-2631]. FS Date: 5/16/2013					

Photo 1 of 3 : UCIP_SP_2019_13558_22169.jpg



Concrete standpipe on LS toe.

LM Start	1.22	Rating **	M	Issue No.	93 (cont)
LM End	1.22	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2019_13558_22168.jpg



Concrete standpipe on LS toe.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	1.22	Rating **	M	Issue No.	93 (cont)	
LM End	1.22	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.177669 °		38.177669 °
				-121.580222 °		-121.580222 °
DWR ID	21754					
Comment Code						
Inspector Comment						
FS_ID:13558 DS_ID:21754 EP_NO: 11234 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 1 of 2: 8-inch steel irrigation pipe through the levee, 4.3 feet below the crown. Pump in pump house on the waterside (WS) berm. 60-inch diameter concrete standpipe on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 11234, 1975 - Anthony and John Correia). [Additional Reference(s): USACE Sacramento O&M Manual 103, June 1954, (Station ""R"" 255+00) Drawing No. 50-4-2631]. FS Date: 5/16/2013						

Photo 3 of 3 : UCIP_SP_2019_13558_22167.jpg



Pumphouse on WS slope.

LM Start	1.22	Rating **	M	Issue No.	56
LM End	2.17	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.177635 °	38.164597 °
				-121.580241 °	-121.583921 °
DWR ID	DWR_NA0002_01_s_2019_56				
Comment Code					
DT : Ditch					
Inspector Comment					
Ditch at the landside toe					

Photo 1 of 1 : SP_2019_NA0002_62_56_20190423_00098.jpg



View looking downstream at ditch at the landside toe (Spring 2019).

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	1.41	Rating **	M	Issue No.	62
LM End	1.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.174986 °	38.173809 °
				-121.581174 °	-121.580871 °
DWR ID	DWR_NA0002_01_s_2019_62				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove blackberries before they get established					

No Photos

LM Start	1.53	Rating **	M	Issue No.	39
LM End	1.54	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.173410 °	38.173178 °
				-121.580683 °	-121.580622 °
DWR ID	DWR_NA0002_01_f_2018_39				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 5.5 R					
Status: Eroding New					
2017 Field Notes: Failed rock section, slump failure of bank to subvertical face.					
Site History:					

Photo 1 of 1 : SP_2019_NA0002_62_39_20190311_00023.jpg



Erosion slump in area of previous repair. LM 1.52

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	1.54	Rating **	M	Issue No.	94
LM End	1.54	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.173254 °	38.173254 °
				-121.580718 °	-121.580718 °
DWR ID	21755				
Comment Code					
Inspector Comment					
FS_ID:13554 DS_ID:21755 EP_NO: 11252 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe heavily rusted at distribution box. Good candidate for video inspection. FIELD_STRUCT_DESC: 1 of 3: 8-inch steel irrigation pipe through the levee, 4.6 feet below the crown. Pump and valve on the waterside (WS) slope. Siphon breaker in 24-inch corrugated metal riser unit on the landside (LS) shoulder. 7-foot by 10-foot concrete distribution box on the LS toe. (Automatic Board Order (ABO) issued as Permit No. 11252, 1975 - Hubert and Palmyra Vandermaele). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""R"" 237+13) Drawing No. 50-4-2631]. FS Date: 5/16/2013					

Photo 1 of 3 : UCIP_SP_2019_13554_22164.jpg



7X10-foot concrete distribution box on LS toe.

LM Start	1.54	Rating **	M	Issue No.	94 (cont)
LM End	1.54	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2019_13554_22163.jpg



Pipe shows excessive rust at inlet to distribution box on LS toe.

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	1.54	Rating **	M	Issue No.	94 (cont)	
LM End	1.54	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.173254 °	38.173254 °	
				-121.580718 °	-121.580718 °	
DWR ID	21755					
Comment Code						
Inspector Comment						
FS_ID:13554 DS_ID:21755 EP_NO: 11252 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe heavily rusted at distribution box. Good candidate for video inspection. FIELD_STRUCT_DESC: 1 of 3: 8-inch steel irrigation pipe through the levee, 4.6 feet below the crown. Pump and valve on the waterside (WS) slope. Siphon breaker in 24-inch corrugated metal riser unit on the landside (LS) shoulder. 7-foot by 10-foot concrete distribution box on the LS toe. (Automatic Board Order (ABO) issued as Permit No. 11252, 1975 - Hubert and Palmyra Vandermaele). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""R"" 237+13) Drawing No. 50-4-2631]. FS Date: 5/16/2013						

Photo 3 of 3 : UCIP_SP_2019_13554_22162.jpg



CMP riser on LS slope.

LM Start	1.56	Rating **	U	Issue No.	25
LM End	1.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.172869 °	38.172869 °
				-121.580681 °	-121.580681 °
DWR ID	DWR_NA0002_01_s_2012_25				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Tree blocking landside toe.					

Photo 1 of 1 : SP_2019_NA0002_62_25_20190311_00016.jpg



Looking southwest at the landside slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	1.63	Rating **	M	Issue No.	63
LM End	1.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.171867 °	38.171867 °
				-121.580681 °	-121.580681 °
DWR ID	DWR_NA0002_01_s_2019_63				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove blackberries at landside toe before they get established					

No Photos

LM Start	1.79	Rating **	U	Issue No.	74
LM End	1.79	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.169625 °	38.169625 °
				-121.581542 °	-121.581542 °
DWR ID	DWR_NA0002_01_f_2016_74				
Comment Code					
RA : Ramp					
Inspector Comment					
The Landowner has created a gravel-covered ramp up the land side of the levee. A permit Application should be submitted and the ramp should be brought up to Title 23 standards after approval.					

Photo 1 of 1 : SP_2019_NA0002_62_74_20190311_00045.jpg



* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	2.17	Rating **	M	Issue No.	95
LM End	2.17	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.164491 °	38.164491 °
				-121.583943 °	-121.583943 °
DWR ID	21758				

Comment Code

Inspector Comment

FS_ID:52615
DS_ID:21758
EP_NO: 11252
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 04/06/2017 Landowner has installed a temporary pipe and removed old pipe. Photos and update courtesy of DWR Inspector, Richard Willoughby.05/16/2013 Pipe rusted through at inlet to box. Good candidate for video inspection. (G. Wylie - DWR)
FIELD_STRUCT_DESC: *REMOVED* 3 of 3: 12-inch steel pipe through the levee 4.0 feet below the crown. Slant pump on bank. Switch box on berm, conduit through levee. Siphon breaker in 24-inch CMP riser on landward slope. Power pole and electrical panel at landward toe (ABO No. 11252, 1975). 7'X10' concrete distribution box on LS toe. As per Richard Willoughby, FPIIB Inspector, landowner has installed a temporary 12-inch PVC pipe on the WS and removed this pipe. New pipe forthcoming. Originally included in the 1954 O&M manual.
FS Date: 4/6/2017

LM Start	2.17	Rating **	M	Issue No.	95 (cont)
LM End	2.17	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP_SP_2019_52615_77544.jpg



A view of disconnected temporary pipe on waterside. Photo courtesy of DWR inspector Keith E Millard.

Photo 2 of 2 : UCIP_SP_2019_52615_77545.jpg



A view of disconnected temporary pipe on landside. Photo courtesy of DWR inspector Keith E Millard.

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	2.19	Rating **	U	Issue No.	42
LM End	2.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.164292 °	38.163777 °
				-121.584028 °	-121.584246 °
DWR ID	DWR_NA0002_01_s_2019_42				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove wildgrowth all the way down the landside slope					

Photo 1 of 1 : SP_2019_NA0002_62_42_20190423_00099.jpg



View looking downstream at vegetation on the landside slope (Spring 2019).

LM Start	2.29	Rating **	U	Issue No.	36
LM End	2.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.162918 °	38.162322 °
				-121.584721 °	-121.585081 °
DWR ID	DWR_NA0002_01_s_2012_36				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Vegetation is starting to impede patrol road.					

Photo 1 of 4 : SP_2019_NA0002_62_36_20190311_00019.jpg



Looking south at dense landscaping on the waterside and landside of levee.

LM Start	2.29	Rating **	U	Issue No.	36 (cont)
LM End	2.34	Issue Type +	En	Location *	LS

Photo 2 of 4 : SP_2019_NA0002_62_36_20190311_00020.jpg



Looking south at dense oleander on waterside shoulder, spring 2012.

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	2.29	Rating **	U	Issue No.	36 (cont)	
LM End	2.34	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.162918 °		38.162322 °
				-121.584721 °		-121.585081 °
DWR ID	DWR_NA0002_01_s_2012_36					
Comment Code						
V6 : Landscaping						
Inspector Comment						
Vegetation is starting to impede patrol road.						

Photo 3 of 4 : SP_2019_NA0002_62_36_20190311_00021.jpg



Looking north at dense vegetation on waterside slope.

LM Start	2.29	Rating **	U	Issue No.	36 (cont)
LM End	2.34	Issue Type +	En	Location *	LS

Photo 4 of 4 : SP_2019_NA0002_62_36_20190311_00022.jpg



Looking west at ground cover on landside slope.

LM Start	2.30	Rating **	U	Issue No.	58
LM End	2.30	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.162806 °	38.162806 °
				-121.584768 °	-121.584768 °
DWR ID	DWR_NA0002_01_s_2018_58				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Remove oleanders.					

Photo 1 of 1 : SP_2019_NA0002_62_58_20190311_00035.jpg



Remove or thin waterside oleanders.

*** 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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	2.30	Rating **	M	Issue No.	3
LM End	2.32	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.162773 °	38.162544 °
				-121.584767 °	-121.584909 °
DWR ID	DWR_NA0002_01_s_2012_3				
Comment Code					
FW : Firewood					
Inspector Comment					
Firewood on the waterside shoulder					

Photo 1 of 3 : SP_2019_NA0002_62_3_20190311_00002.jpg



Looking east at firewood on waterside shoulder.

LM Start	2.30	Rating **	M	Issue No.	3 (cont)
LM End	2.32	Issue Type +	En	Location *	WS

Photo 2 of 3 : SP_2019_NA0002_62_3_20190311_00003.jpg



Looking southeast at firewood on waterside shoulder.

LM Start	2.30	Rating **	M	Issue No.	3 (cont)
LM End	2.32	Issue Type +	En	Location *	WS

Photo 3 of 3 : SP_2019_NA0002_62_3_20190311_00004.jpg



Looking south at firewood on waterside shoulder.

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	2.33	Rating **	M	Issue No.	50
LM End	2.33	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.162343 °	38.162343 °
				-121.585020 °	-121.585020 °
DWR ID	DWR_NA0002_01_f_2014_50				
Comment Code					
LI : Landscape Irrigation					
Inspector Comment					
Landowner installed sprinklers along waterside slope without permit.					

Photo 1 of 1 : SP_2019_NA0002_62_50_20190311_00031.jpg



Looking east at sprinklers on waterward slope.

LM Start	2.34	Rating **	M	Issue No.	96
LM End	2.34	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.162332 °	38.162332 °
				-121.585032 °	-121.585032 °
DWR ID	21819				
Comment Code					
Inspector Comment					
FS_ID:16123 DS_ID:21819 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 2-inch steel irrigation pipe through the levee, 3 feet below the crown. [Additional Reference(s): USACE Sacramento O&M Manual 103, June 1954, (Station ""R"" 196+99) Drawing No. 50-4-2631]. FS Date: 5/16/2013					

Photo 1 of 2 : UCIP_SP_2019_16123_27221.jpg



Pipe visible in water at WS toe.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	2.34	Rating **	M	Issue No.	96 (cont)	
LM End	2.34	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.162332 °	38.162332 °	
				-121.585032 °	-121.585032 °	
DWR ID	21819					
Comment Code						
Inspector Comment						
FS_ID:16123						
DS_ID:21819						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe appears abandoned and should be done so properly.						
FIELD_STRUCT_DESC: 2-inch steel irrigation pipe through the levee, 3 feet below the crown. [Additional Reference(s): USACE Sacramento O&M Manual 103, June 1954, (Station ""R"" 196+99) Drawing No. 50-4-2631].						
FS Date: 5/16/2013						

Photo 2 of 2 : UCIP_SP_2019_16123_27220.jpg



Pipe visible in water at WS toe.

LM Start	2.34	Rating **	M	Issue No.	72
LM End	2.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.162242 °	38.162242 °
				-121.585058 °	-121.585058 °
DWR ID	DWR_NA0002_01_f_2016_72				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent colony exists under raised Tyler Island Bridge approach. Rodents should be exterminated and their holes backfilled.					

No Photos

LM Start	2.41	Rating **	U	Issue No.	28
LM End	2.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.161301 °	38.160281 °
				-121.585560 °	-121.586007 °
DWR ID	DWR_NA0002_01_s _ 2013_28				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation and wild roses on landside slope and toe.					

Photo 1 of 2 : SP_2019_NA0002_62_28_20190311_00017.jpg



Look west at dense vegetation at landward toe. (Spring 2016)

LM Start	2.41	Rating **	U	Issue No.	28 (cont)
LM End	2.49	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2019_NA0002_62_28_20190311_00018.jpg



Look west at dense vegetation at landward toe. (Fall 2016)

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	2.50	Rating **	M	Issue No.	97
LM End	2.50	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.160147 °	38.160147 °
				-121.586088 °	-121.586088 °
DWR ID	21762				
Comment Code					
Inspector Comment					
FS_ID:13545 DS_ID:21762 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and should be done so properly. standpipe on LS is covered in brush. FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee, 3.4 feet below the crown. 6-inch pump on the waterside (WS). 36-inch concrete standpipe on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""R"" 188+39) Drawing No. 50-4-2631]. FS Date: 5/16/2013					

Photo 1 of 3 : UCIP_SP_2019_13545_22145.jpg



Pipe and pump on WS slope.

LM Start	2.50	Rating **	M	Issue No.	97 (cont)
LM End	2.50	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2019_13545_22144.jpg



Standpipe covered in brush on LS toe.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	2.54	Rating **	M	Issue No.	98 (cont)
LM End	2.54	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.159569 °	38.159569 °
				-121.586340 °	-121.586340 °
DWR ID	21764				
Comment Code					
Inspector Comment					
FS_ID:13525 DS_ID:21764 EP_NO: 17250 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Needs better location markers. FIELD_STRUCT_DESC: 24-inch steel natural gas pipeline through the levee, 117 feet below the crown. Possible sign on the LS toe. (Permit No. 17250, 2001 - Lodi Gas Storage, LLC). FS Date: 5/16/2013					

Photo 2 of 2 : UCIP_SP_2019_13525_22127.jpg



Gasline marker on LS toe.

LM Start	2.58	Rating **	M	Issue No.	52
LM End	2.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.158999 °	38.158999 °
				-121.586621 °	-121.586621 °
DWR ID	DWR_NA0002_01_f_2017_29				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	2.60	Rating **	M	Issue No.	44
LM End	2.60	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.158684 °	38.158684 °
				-121.586787 °	-121.586787 °
DWR ID	DWR_NA0002_01_f_2017_44				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					
Pothole in crown at pipe crossing					

No Photos

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	2.60	Rating **	U	Issue No.	99
LM End	2.60	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.158683 °	38.158683 °
				-121.586784 °	-121.586784 °
DWR ID	21765				

Comment Code

Inspector Comment

FS_ID:53386
 DS_ID:21765
 EP_NO: 11238
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: 07/12/2018 Dense vegetation on both levee slopes. Unable to evaluate erosion on WS. Depression along pipe alignment on levee crown. Recommend internal inspection to determine pipe integrity through levee. (O.Yakimov-DWR UCIP)10/24/2016 Unable to access WS due to heavy vegetation--assume WS remains the same or erosion has progressed but not visible from levee crown. Pipe marker found on LS slope next to 12-inch irrigation pipe indicating high pressure unodorized natural gas pipeline however, unable to confirm if line is present or if it is parallel to levee or if it goes through levee. (O. Magana - DWR UCIP)05/16/2013 Erosion along pipe at WS toe goes into levee prism. Animal activity appears to be the cause of some pretty heavy erosion damage. Some settlement along the pipe alignment on crown may indicate other problems with this pipe. (W. Wylie - DWR UCIP)
 FIELD_STRUCT_DESC: 1 of 5: 12-inch irrigation steel pipe through levee 4 feet below crown. Siphon breaker is located on landside (LS) shoulder. A 7-foot by 9-foot concrete distribution box is located on LS toe. (12-inch pipe authorized under Permit No. 18549, 2009 - Stockton JACS LLC; previous 12-inch pipe was replaced and authorized under Automatic Board Order (ABO) issued as Permit No. 11238, 1975 - Gardiner Improvement Company). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit 103, June 1954, (Station "R" 182+63), Drawing No. 50-4-2631, 50-4-2634].
 FS Date: 7/12/2018 2:39:34 PM

Photo 1 of 3 : UCIP_SP_2019_53386_22124.jpg



Pipe visible on LS shoulder with concrete distribution box on LS toe.
 Gasline marker placed at pipe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	2.60	Rating **	U	Issue No.	99 (cont)	
LM End	2.60	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.158683 °	38.158683 °	
				-121.586784 °	-121.586784 °	
DWR ID	21765					
Comment Code						
Inspector Comment						
FS_ID:53386 DS_ID:21765 EP_NO: 11238 Repair Type: Urgent Crossing Status: Found UCIP Comments: 07/12/2018 Dense vegetation on both levee slopes. Unable to evaluate erosion on WS. Depression along pipe alignment on levee crown. Recommend internal inspection to determine pipe integrity through levee. (O.Yakimov-DWR UCIP)10/24/2016 Unable to access WS due to heavy vegetation--assume WS remains the same or erosion has progressed but not visible from levee crown. Pipe marker found on LS slope next to 12-inch irrigation pipe indicating high pressure unodorized natural gas pipeline however, unable to confirm if line is present or if it is parallel to levee or if it goes through levee. (O. Magana - DWR UCIP)05/16/2013 Erosion along pipe at WS toe goes into levee prism. Animal activity appears to be the cause of some pretty heavy erosion damage. Some settlement along the pipe alignment on crown may indicate other problems with this pipe. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 1 of 5: 12-inch irrigation steel pipe through levee 4 feet below crown. Siphon breaker is located on landside (LS) shoulder. A 7-foot by 9-foot concrete distribution box is located on LS toe. (12-inch pipe authorized under Permit No. 18549, 2009 - Stockton JACS LLC; previous 12-inch pipe was replaced and authorized under Automatic Board Order (ABO) issued as Permit No. 11238, 1975 - Gardiner Improvement Company). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit 103, June 1954, (Station "R" 182+63), Drawing No. 50-4-2631, 50-4-2634]. FS Date: 7/12/2018 2:39:34 PM						

Photo 2 of 3 : UCIP_SP_2019_53386_22123.jpg



Concrete distribution box on LS toe.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	2.60	Rating **	U	Issue No.	99 (cont)
LM End	2.60	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.158683 °	38.158683 °
				-121.586784 °	-121.586784 °
DWR ID	21765				

Comment Code

Inspector Comment

FS_ID:53386
 DS_ID:21765
 EP_NO: 11238
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: 07/12/2018 Dense vegetation on both levee slopes. Unable to evaluate erosion on WS. Depression along pipe alignment on levee crown. Recommend internal inspection to determine pipe integrity through levee. (O.Yakimov-DWR UCIP)10/24/2016 Unable to access WS due to heavy vegetation--assume WS remains the same or erosion has progressed but not visible from levee crown. Pipe marker found on LS slope next to 12-inch irrigation pipe indicating high pressure unodorized natural gas pipeline however, unable to confirm if line is present or if it is parallel to levee or if it goes through levee. (O. Magana - DWR UCIP)05/16/2013 Erosion along pipe at WS toe goes into levee prism. Animal activity appears to be the cause of some pretty heavy erosion damage. Some settlement along the pipe alignment on crown may indicate other problems with this pipe. (W. Wylie - DWR UCIP)
 FIELD_STRUCT_DESC: 1 of 5: 12-inch irrigation steel pipe through levee 4 feet below crown. Siphon breaker is located on landside (LS) shoulder. A 7-foot by 9-foot concrete distribution box is located on LS toe. (12-inch pipe authorized under Permit No. 18549, 2009 - Stockton JACS LLC; previous 12-inch pipe was replaced and authorized under Automatic Board Order (ABO) issued as Permit No. 11238, 1975 - Gardiner Improvement Company). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit 103, June 1954, (Station "R" 182+63), Drawing No. 50-4-2631, 50-4-2634].
 FS Date: 7/12/2018 2:39:34 PM

Photo 3 of 3 : UCIP_SP_2019_53386_22122.jpg



Subsidence along pipe alignment at crown.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	2.76	Rating **	C	Issue No.	71
LM End	2.79	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.157860 °	38.157925 °
				-121.588920 °	-121.589473 °
DWR ID	DWR_NA0002_01_f_2016_71				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove black berries before they get established					

No Photos

LM Start	2.81	Rating **	C	Issue No.	49
LM End	2.90	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.157952 °	38.157728 °
				-121.589833 °	-121.591442 °
DWR ID	DWR_NA0002_01_f_2018_49				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	3.00	Rating **	U	Issue No.	53
LM End	3.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.156537 °	38.156537 °
				-121.592498 °	-121.592498 °
DWR ID	DWR_NA0002_01_f_2018_53				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove willows from landside slope					

Photo 1 of 1 : SP_2019_NA0002_62_53_20190423_00100.jpg



View looking downstream at willows on the landside slope (Spring 2019).

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	3.01	Rating **	M	Issue No.	100
LM End	3.01	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.156379 °	38.156379 °
				-121.592527 °	-121.592527 °
DWR ID	21766				
Comment Code					
Inspector Comment					
FS_ID:41561 DS_ID:21766 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Appears abandoned FIELD_STRUCT_DESC: *ABANDONED* 12-inch steel irrigation pipe through the levee, at an unknown depth. 5-foot diameter concrete riser unit on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/16/2013					

Photo 1 of 2 : UCIP_SP_2019_41561_27229.jpg



5-foot diameter concrete riser on LS toe, but no pipe visible.

LM Start	3.01	Rating **	M	Issue No.	100 (cont)
LM End	3.01	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2019_41561_27228.jpg



5-foot diameter concrete riser on LS toe, but no pipe visible.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	3.37	Rating **	U	Issue No.	5
LM End	3.37	Issue Type +	En	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				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Remove cactus from waterside slope.					

Photo 1 of 2 : SP_2019_NA0002_62_5_20190311_00005.jpg



Looking south at cactus on waterward slope near Oxbow Harbor. (Spring 2016)

LM Start	3.37	Rating **	U	Issue No.	5 (cont)
LM End	3.37	Issue Type +	En	Location *	WS

Photo 2 of 2 : SP_2019_NA0002_62_5_20190311_00006.jpg



Looking east at cactus on waterward slope near Oxbow Harbor. (Fall 2016)

LM Start	3.38	Rating **	A/W	Issue No.	67
LM End	3.40	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.151430 °	38.151390 °
				-121.592085 °	-121.592517 °
DWR ID	DWR_NA0002_01_s_2017_67				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Appears to be beginning of a landside slump. LMA's Engineer (DCC) is monitoring site for movement.					

Photo 1 of 3 : SP_2019_NA0002_62_67_20190311_00042.jpg



Looking south at sloughing on landward shoulder.

*** 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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	3.38	Rating **	A/W	Issue No.	67 (cont)	
LM End	3.40	Issue Type +	Ma	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			38.151430 °		38.151390 °
				-121.592085 °		-121.592517 °
DWR ID	DWR_NA0002_01_s_2017_67					
Comment Code						
S1 : Repair slope instability.						
Inspector Comment						
Appears to be beginning of a landside slump. LMA's Engineer (DCC) is monitoring site for movement.						

LM Start	3.38	Rating **	A/W	Issue No.	67 (cont)
LM End	3.40	Issue Type +	Ma	Location *	CR

Photo 2 of 3 : SP_2019_NA0002_62_67_20190311_00043.jpg



Looking east at possible sloughing on landward shoulder.

Photo 3 of 3 : SP_2019_NA0002_62_67_20190311_00044.jpg



Looking at downstream corner of slough.

LM Start	3.43	Rating **	U	Issue No.	59
LM End	3.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.151448 °	38.145753 °
				-121.592898 °	-121.601660 °
DWR ID	DWR_NA0002_01_f_2018_59				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0002_62_59_20190311_00036.jpg



View looking downstream at vegetation on the water side slope (October 2018).

*** 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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	3.62	Rating **	C	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	3.63	Rating **	M	Issue No.	45
LM End	3.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.151715 °	38.151715 °
				-121.596518 °	-121.596518 °
DWR ID	DWR_NA0002_01_s_2019_45				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove blackberries from landside slope					

No Photos

LM Start	3.74	Rating **	M	Issue No.	46
LM End	3.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.150841 °	38.150841 °
				-121.598161 °	-121.598161 °
DWR ID	DWR_NA0002_01_f_2017_46				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0002_62_46_20190311_00028.jpg



Looking southwest at the landside slope.

* 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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	3.87	Rating **	U	Issue No.	57
LM End	3.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.149217 °	38.149217 °
				-121.599389 °	-121.599389 °
DWR ID	DWR_NA0002_01_f_2015_57				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0002_62_57_20190311_00034.jpg



Looking west at untrimmed tree on waterward slope.

LM Start	3.92	Rating **	M	Issue No.	47
LM End	3.94	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.148528 °	38.148284 °
				-121.599895 °	-121.600056 °
DWR ID	DWR_NA0002_01_f_2017_47				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	3.93	Rating **	U	Issue No.	11
LM End	4.00	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.148318 °	38.147527 °
				-121.599947 °	-121.600635 °
DWR ID	DWR_NA0002_01_s_2012_11				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 3 : SP_2019_NA0002_62_11_20190311_00007.jpg



Looking northeast at landscaping on landside slope.

*** 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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	3.93	Rating **	U	Issue No.	11 (cont)	
LM End	4.00	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.148318 °		38.147527 °
				-121.599947 °		-121.600635 °
DWR ID	DWR_NA0002_01_s_2012_11					
Comment Code						
V6 : Landscaping						
Inspector Comment						

Photo 2 of 3 : SP_2019_NA0002_62_11_20190311_00008.jpg



Looking south at bushes on landside shoulder and slope.

LM Start	3.93	Rating **	U	Issue No.	11 (cont)
LM End	4.00	Issue Type +	En	Location *	LS

Photo 3 of 3 : SP_2019_NA0002_62_11_20190311_00009.jpg



Looking west at dense landscaping on landside slope.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	3.99	Rating **	A/W	Issue No.	101
LM End	3.99	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.147677 °	38.147677 °
				-121.600501 °	-121.600501 °
DWR ID	21772				
Comment Code					
Inspector Comment					
FS_ID:51302 DS_ID:21772 EP_NO: 11248 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 1 of 2: 24-inch steel drainage pipe through levee, 3 feet below the crown. Siphon breaker is located on the waterside (WS) slope. Pump is located on the landside (LS). (24-inch pipe [HLM 3.99] authorized under Automatic Board Order (ABO) issued as Permit No. 11248, 1975 – Reclamation District No. 407) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit 103, June 1954, Drawing No. 50-4-2631, page 2631/2, (Station 107+76), 26-inch listed]. FS Date: 5/16/2013					

LM Start	3.99	Rating **	A/W	Issue No.	101 (cont)
LM End	3.99	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2019_51302_22082.jpg



24-inch pipe and siphon breaker visible on WS slope.

Photo 2 of 3 : UCIP_SP_2019_51302_22081.jpg



Pipe visible on LS slope.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	3.99	Rating **	M	Issue No.	102 (cont)	
LM End	3.99	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.147653 °	38.147653 °	
				-121.600491 °	-121.600491 °	
DWR ID	21825					
Comment Code						
Inspector Comment						
FS_ID:13487						
DS_ID:21825						
EP_NO: 11248						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Leakage of pipe at WS toe creating erosion.						
Possible cavity collapse along pipe alignment on WS berm.						
FIELD_STRUCT_DESC: 2 of 2: 4-inch pipe through levee 4.0 feet						
below crown. Siphon breaker on waterward slope. Pump on landward						
side (ABO No. 11248, 1975).						
FS Date: 5/16/2013						

LM Start	3.99	Rating **	M	Issue No.	102 (cont)
LM End	3.99	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2019_13487_22052.jpg



Possible indicator of internal pipe failure along pipe alignment as there appears to be a cavity collapse over the pipe on the WS berm.

Photo 3 of 3 : UCIP_SP_2019_13487_22051.jpg



Pipe visible under walnut at LS slope.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	3.99	Rating **	U	Issue No.	103	
LM End	3.99	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.147657 °	38.147657 °	
				-121.600521 °	-121.600521 °	
DWR ID	21773					
Comment Code						
Inspector Comment						
FS_ID:52693 DS_ID:21773 EP_NO: 5534 Repair Type: Urgent Crossing Status: Found UCIP Comments: 07/12/2018 Levee crown on LS shoulder was repaved with asphalt. Dense vegetation limits visibility on LS levee slope and ability to evaluate erosion on LS. Crossing remains "Urgent". (O.Yakimov-DWR)10/24/2016 Internal erosion visible on LS where pipe daylights. LS road shoulder appears to be failing. Large sink hole patched and is visible on road/crown. Evidence of burrow activity that appear to be about 6-inches in diameter with depths greater than 3 feet. Burrow holes are located on LS hinge point just upstream of pipe and 3 holes visible on WS. Need to contact owner to address issue and recommend to stop use of crossing to avoid further damage to levee. (O. Magana - DWR UCIP)05/16/2013 Pot holes over pipe may indicate internal failure. Good candidate for video inspection. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 22-inch steel drainage pipe through the levee, 3 feet below the crown. Siphon breaker located on the waterside (WS) shoulder. Pump located on the landside (LS). (22-inch pipe authorized under Permit No. 5534, 1966 - Reclamation District No. 407, 22-inch pipe replaced 24-inch discharge pipe). [Additional Reference(s): DWR Levee Log, 2005, 24-inch pipe listed]. FS Date: 7/27/2018 2:39:22 PM						

LM Start	3.99	Rating **	U	Issue No.	103 (cont)
LM End	3.99	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2019_52693_22078.jpg



Pipe and siphon breaker on WS shoulder.

Photo 2 of 3 : UCIP_SP_2019_52693_22077.jpg



Pipe and pumping plant on LS slope.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	4.01	Rating **	M	Issue No.	104	
LM End	4.01	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.147459 °	38.147459 °	
				-121.600681 °	-121.600681 °	
DWR ID	21774					
Comment Code						
Inspector Comment						
FS_ID:51308 DS_ID:21774 EP_NO: 11238 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/24/2016 Unable to determine if WS primer pipe is leaking or if settling is occurring at pipe. Need to contact owner to determine when upgrades to WS were completed. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 10-inch irrigation steel pipe (12-inch referenced in ABO and O&M manual) through levee, 4 feet below crown. Siphon breaker is located on the landside (LS). 1.5-inch primer, 48-inch concrete standpipe on LS toe with slide gate. (12-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11238, 1975 – Gardiner Improvement Company). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit 103, June 1954, (Station 106+79), Drawing No. 50-4-2631, page 2631/2]. FS Date: 10/24/2016						

LM Start	4.01	Rating **	M	Issue No.	104 (cont)
LM End	4.01	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2019_51308_22050.jpg



10-inch pipe visible on WS slope.

Photo 2 of 3 : UCIP_SP_2019_51308_22049.jpg



10-inch pipe visible on LS slope

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	4.01	Rating **	M	Issue No.	104 (cont)	
LM End	4.01	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.147459 °	38.147459 °	
				-121.600681 °	-121.600681 °	
DWR ID	21774					
Comment Code						
Inspector Comment						
FS_ID:51308 DS_ID:21774 EP_NO: 11238 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/24/2016 Unable to determine if WS primer pipe is leaking or if settling is occurring at pipe. Need to contact owner to determine when upgrades to WS were completed. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 10-inch irrigation steel pipe (12-inch referenced in ABO and O&M manual) through levee, 4 feet below crown. Siphon breaker is located on the landside (LS). 1.5-inch primer, 48-inch concrete standpipe on LS toe with slide gate. (12-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11238, 1975 – Gardiner Improvement Company). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit 103, June 1954, (Station 106+79), Drawing No. 50-4-2631, page 2631/2]. FS Date: 10/24/2016						

Photo 3 of 3 : UCIP_SP_2019_51308_22048.jpg



Concrete standpipe with slide gate at LS toe.

LM Start	4.03	Rating **	U	Issue No.	43
LM End	4.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.147108 °	38.143694 °
				-121.600942 °	-121.600876 °
DWR ID	DWR_NA0002_01_s_2019_43				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0002_62_43_20190523_00112.jpg



View looking downstream at annual vegetation on the landside slope (Spring 2019).

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	4.04	Rating **	U	Issue No.	105
LM End	4.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.146985 °	38.146985 °
				-121.601019 °	-121.601019 °
DWR ID	21775				

Comment Code

Inspector Comment

FS_ID:52692
 DS_ID:21775
 EP_NO: 11238
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: 07/12/2018 Hole on LS shoulder under concrete blocks is still present, although haven't increased in size. Part of cover on concrete sump is still missing which is public safety issue. Crossing remain "Urgent" because of potential pipe failure signs. Recommend internal inspection to determine condition of pipe through levee. (DWR-O.Yakimov)
 12/30/2016 Left message with Ms. Cabral to inform her that we are working with LMA to find additional information about crossing. Spoke with Andy Giannini, LMA representative, regarding the UCIP report and Mr. Giannini believes the hole is due to ground squirrel activity. According to Mr. Giannini, the issue with ground squirrel has been resolved and the hole filled. Records indicate pipe was installed in the 1950s and authorized under Permit No. 11238 in 1975. This pipe could be about 62 years old. Crossing remains Urgent due to the uncertainty of pipe integrity through levee. Recommend having owner complete an internal inspection of the pipe through the levee to determine integrity of pipe. (O. Magana - DWR UCIP)12/28/2016 Contacted Andy Giannini, LMA representative, and provided him with UCIP report to review. (O. Magana - DWR UCIP)12/27/2016 Contacted Rebecca Cabral, property sales agent from Century 21 Farm & Ranch M&M and Associates, at 1-707-374-3900 to inquire about the property owner for this area. Mrs. Cabral was unaware of pipe through levee and has requested photos to share with client. She was not able to provide me with the current property owner information but mentioned that she will contact me next week (week ending Jan 6, 2017). (O. Magana - DWR UCIP)10/24/2016 Section of cover is still missing. Potential pipe failure through levee. Sink hole is present on LS shoulder. Need to contact owner to stop use of pipe to avoid further damage to levee. Recommend internal inspection of pipe to determine integrity of pipe wall. (O. Magana - DWR UCIP)05/08/2013 Missing cover on concrete sump is an immediate hazard and should be repaired. (W. Wylie - DWR UCIP)
 FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee, 3.7 feet below the crown. 5-foot by 5-foot concrete spillbox located on the landside (LS) slope. (8-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11238, 1975 - Gardiner Improvement Company). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station "R" 105+02) Drawing No. 50-4-2631, Page 2631/2].
 FS Date: 7/27/2018 2:17:23 PM

Photo 1 of 3 : UCIP_SP_2019_52692_77567.jpg



Pipe and concrete sump on LS.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	4.04	Rating **	U	Issue No.	105 (cont)
LM End	4.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.146985 °	38.146985 °
				-121.601019 °	-121.601019 °
DWR ID	21775				

Comment Code

Inspector Comment

FS_ID:52692
 DS_ID:21775
 EP_NO: 11238
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: 07/12/2018 Hole on LS shoulder under concrete blocks is still present, although haven't increased in size. Part of cover on concrete sump is still missing which is public safety issue. Crossing remain "Urgent" because of potential pipe failure signs. Recommend internal inspection to determine condition of pipe through levee. (DWR-O.Yakimov)
 12/30/2016 Left message with Ms. Cabral to inform her that we are working with LMA to find additional information about crossing. Spoke with Andy Giannini, LMA representative, regarding the UCIP report and Mr. Giannini believes the hole is due to ground squirrel activity. According to Mr. Giannini, the issue with ground squirrel has been resolved and the hole filled. Records indicate pipe was installed in the 1950s and authorized under Permit No. 11238 in 1975. This pipe could be about 62 years old. Crossing remains Urgent due to the uncertainty of pipe integrity through levee. Recommend having owner complete an internal inspection of the pipe through the levee to determine integrity of pipe. (O. Magana - DWR UCIP)12/28/2016 Contacted Andy Giannini, LMA representative, and provided him with UCIP report to review. (O. Magana - DWR UCIP)12/27/2016 Contacted Rebecca Cabral, property sales agent from Century 21 Farm & Ranch M&M and Associates, at 1-707-374-3900 to inquire about the property owner for this area. Mrs. Cabral was unaware of pipe through levee and has requested photos to share with client. She was not able to provide me with the current property owner information but mentioned that she will contact me next week (week ending Jan 6, 2017). (O. Magana - DWR UCIP)10/24/2016 Section of cover is still missing. Potential pipe failure through levee. Sink hole is present on LS shoulder. Need to contact owner to stop use of pipe to avoid further damage to levee. Recommend internal inspection of pipe to determine integrity of pipe wall. (O. Magana - DWR UCIP)05/08/2013 Missing cover on concrete sump is an immediate hazard and should be repaired. (W. Wylie - DWR UCIP)
 FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee, 3.7 feet below the crown. 5-foot by 5-foot concrete spillbox located on the landside (LS) slope. (8-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11238, 1975 - Gardiner Improvement Company). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station "R" 105+02) Drawing No. 50-4-2631, Page 2631/2].
 FS Date: 7/27/2018 2:17:23 PM

Photo 2 of 3 : UCIP_SP_2019_52692_77569.jpg



Pipe visible at waters edge on WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	4.04	Rating **	U	Issue No.	105 (cont)
LM End	4.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.146985 °	38.146985 °
				-121.601019 °	-121.601019 °
DWR ID	21775				

Comment Code

Inspector Comment

FS_ID:52692
 DS_ID:21775
 EP_NO: 11238
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: 07/12/2018 Hole on LS shoulder under concrete blocks is still present, although haven't increased in size. Part of cover on concrete sump is still missing which is public safety issue. Crossing remain "Urgent" because of potential pipe failure signs. Recommend internal inspection to determine condition of pipe through levee. (DWR-O.Yakimov)
 12/30/2016 Left message with Ms. Cabral to inform her that we are working with LMA to find additional information about crossing. Spoke with Andy Giannini, LMA representative, regarding the UCIP report and Mr. Giannini believes the hole is due to ground squirrel activity. According to Mr. Giannini, the issue with ground squirrel has been resolved and the hole filled. Records indicate pipe was installed in the 1950s and authorized under Permit No. 11238 in 1975. This pipe could be about 62 years old. Crossing remains Urgent due to the uncertainty of pipe integrity through levee. Recommend having owner complete an internal inspection of the pipe through the levee to determine integrity of pipe. (O. Magana - DWR UCIP)12/28/2016 Contacted Andy Giannini, LMA representative, and provided him with UCIP report to review. (O. Magana - DWR UCIP)12/27/2016 Contacted Rebecca Cabral, property sales agent from Century 21 Farm & Ranch M&M and Associates, at 1-707-374-3900 to inquire about the property owner for this area. Mrs. Cabral was unaware of pipe through levee and has requested photos to share with client. She was not able to provide me with the current property owner information but mentioned that she will contact me next week (week ending Jan 6, 2017). (O. Magana - DWR UCIP)10/24/2016 Section of cover is still missing. Potential pipe failure through levee. Sink hole is present on LS shoulder. Need to contact owner to stop use of pipe to avoid further damage to levee. Recommend internal inspection of pipe to determine integrity of pipe wall. (O. Magana - DWR UCIP)05/08/2013 Missing cover on concrete sump is an immediate hazard and should be repaired. (W. Wylie - DWR UCIP)
 FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee, 3.7 feet below the crown. 5-foot by 5-foot concrete spillbox located on the landside (LS) slope. (8-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 11238, 1975 - Gardiner Improvement Company). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station "R" 105+02) Drawing No. 50-4-2631, Page 2631/2].
 FS Date: 7/27/2018 2:17:23 PM

Photo 3 of 3 : UCIP_SP_2019_52692_22043.jpg



Pipe at entrance to concrete sump on LS.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	4.05	Rating **	U	Issue No.	64
LM End	4.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.146956 °	38.145776 °
				-121.601033 °	-121.601633 °
DWR ID	DWR_NA0002_01_s_2019_64				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0002_62_64_20190523_00113.jpg



View looking downstream at annual vegetation on the waterside slope (Spring 2019).

LM Start	4.12	Rating **	M	Issue No.	68
LM End	4.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.145998 °	38.145998 °
				-121.601588 °	-121.601588 °
DWR ID	DWR_NA0002_01_s_2019_68				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove new willow growth from waterside slope					

Photo 1 of 1 : SP_2019_NA0002_62_68_20190423_00103.jpg



View looking downstream at new willows growing on the waterside slope (Spring 2019).

LM Start	4.22	Rating **	M	Issue No.	83
LM End	4.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.144506 °	38.144506 °
				-121.601365 °	-121.601365 °
DWR ID	DWR_NA0002_01_s_2019_83				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove blackberries on waterside slope before they get established					

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**

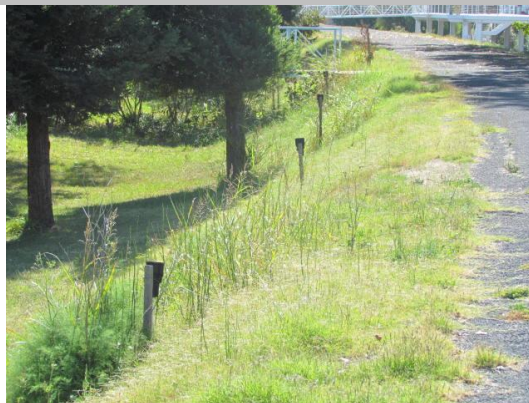
Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	4.23	Rating **	M	Issue No.	20
LM End	4.29	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.144471 °	38.143652 °
				-121.601381 °	-121.600877 °
DWR ID	DWR_NA0002_01_f_2013_20				
Comment Code					
LI : Landscape Irrigation					
Inspector Comment					
Sprinkler system on waterside of levee.					

Photo 1 of 1 : SP_2019_NA0002_62_20_20190311_00011.jpg



Looking south at a sprinkler system on waterward slope.

LM Start	4.55	Rating **	U	Issue No.	69
LM End	4.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.140402 °	38.140402 °
				-121.598276 °	-121.598276 °
DWR ID	DWR_NA0002_01_s_2019_69				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0002_62_69_20190423_00105.jpg



View looking downstream at annual vegetation on the landside slope (Spring 2019).

* 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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	4.55	Rating **	U	Issue No.	85
LM End	4.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.140402 °	38.140402 °
				-121.598275 °	-121.598275 °
DWR ID	DWR_NA0002_01_s_2019_85				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove blackberries from landside toe					

Photo 1 of 1 : SP_2019_NA0002_62_85_20190423_00106.jpg



View looking downslope at blackberries at the landside slope (Spring 2019).

LM Start	4.63	Rating **	M	Issue No.	106	
LM End	4.63	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.139401 °	38.139401 °	
				-121.597678 °	-121.597678 °	
DWR ID	21781					
Comment Code						
Inspector Comment						
FS_ID:13442						
DS_ID:21781						
EP_NO: 11237						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Appears abandoned. Good candidate for video inspection.						
FIELD_STRUCT_DESC: 3 of 3: 6-inch steel irrigation pipe through the levee, 3.6 feet below the crown. 42-inch concrete standpipe on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 11237, 1975 - Bruna Galli). [Additional Reference(s): DWR Levee Log, 2005, 7-inch pipe listed. USACE Sacramento O&M Manual 103, June 1954, (Station ""R"" 74+06) Drawing No. 50-4-2672].						
FS Date: 5/15/2013						

Photo 1 of 2 : UCIP_SP_2019_13442_21942.jpg



Pipe visible just under the water surface

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	4.63	Rating **	M	Issue No.	106 (cont)
LM End	4.63	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.139401 °	38.139401 °
				-121.597678 °	-121.597678 °
DWR ID	21781				
Comment Code					
Inspector Comment					
FS_ID:13442					
DS_ID:21781					
EP_NO: 11237					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Appears abandoned. Good candidate for video inspection.					
FIELD_STRUCT_DESC: 3 of 3: 6-inch steel irrigation pipe through the levee, 3.6 feet below the crown. 42-inch concrete standpipe on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 11237, 1975 - Bruna Galli). [Additional Reference(s): DWR Levee Log, 2005, 7-inch pipe listed. USACE Sacramento O&M Manual 103, June 1954, (Station ""R"" 74+06) Drawing No. 50-4-2672].					
FS Date: 5/15/2013					

Photo 2 of 2 : UCIP_SP_2019_13442_21941.jpg



42-inch concrete riser on LS toe.

LM Start	4.70	Rating **	M	Issue No.	55
LM End	4.74	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.138424 °	38.137959 °
				-121.597163 °	-121.596872 °
DWR ID	DWR_NA0002_01_s_ 2018_55				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landowner needs to maintain the landscaping on the LS slope.					

No Photos

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	4.74	Rating **	M	Issue No.	70
LM End	4.79	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.137921 °	38.137366 °
				-121.596847 °	-121.596421 °
DWR ID	DWR_NA0002_01_s _ 2018_70				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Iceplant blocks visibility of landside slope.					

No Photos

LM Start	4.78	Rating **	C	Issue No.	24
LM End	4.78	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.137478 °	38.137472 °
				-121.596512 °	-121.596512 °
DWR ID	DWR_NA0002_01_s _ 2012_24				
Comment Code					
GA : Garbage					
Inspector Comment					
Landowner stockpiling wooden boards on landside shoulder.					

No Photos

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	4.79	Rating **	M	Issue No.	107
LM End	4.79	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.137306 °	38.137306 °
				-121.596371 °	-121.596371 °
DWR ID	21782				
Comment Code					
Inspector Comment					
FS_ID:41562					
DS_ID:21782					
EP_NO: 11233					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Need to verify type of abandonment.					
FIELD_STRUCT_DESC: *ABANDONED* 2.5-inch pipe of an unknown material or purpose through the levee, 3.2 feet below the crown. Found pipe in water on the waterside (WS) toe. (Automatic Board Order (ABO) issued as Permit No. 11233, 1975 - Jose H. and Maria H. Cervantez). [Additional Reference(s): DWR Levee Log, 2005].					
FS Date: 5/15/2013					

Photo 1 of 1 : UCIP_SP_2019_41562_21935.jpg



Pipe found at WS shoreline.

LM Start	4.83	Rating **	U	Issue No.	86
LM End	4.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.136882 °	38.135516 °
				-121.596015 °	-121.594597 °
DWR ID	DWR_NA0002_01_s_2019_86				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Maintain annual vegetation					

Photo 1 of 1 : SP_2019_NA0002_62_86_20190423_00108.jpg



View looking downstream at annual vegetation on the landside slope (Spring 2019).

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	4.83	Rating **	U	Issue No.	87
LM End	4.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.136882 °	38.135516 °
				-121.596015 °	-121.594597 °
DWR ID	DWR_NA0002_01_s_2019_87				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Maintain annual vegetation					

Photo 1 of 1 : SP_2019_NA0002_62_87_20190423_00107.jpg



View looking downstream at annual vegetation on the waterside slope (Spring 2019).

LM Start	4.83	Rating **	M	Issue No.	48
LM End	4.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.136839 °	38.136839 °
				-121.595994 °	-121.595994 °
DWR ID	DWR_NA0002_01_f_2015_48				
Comment Code					
FE : Fence					
Inspector Comment					
Unauthorized fence at landside toe.					

Photo 1 of 2 : SP_2019_NA0002_62_48_20190311_00029.jpg



Looking at close-up view of fence at landward toe.

LM Start	4.83	Rating **	M	Issue No.	48 (cont)
LM End	4.83	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP_2019_NA0002_62_48_20190311_00030.jpg



Looking southwest at unfinished fence at landward toe.

*** 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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	4.95	Rating **	M	Issue No.	73
LM End	4.99	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.135445 °	38.135029 °
				-121.594527 °	-121.594052 °
DWR ID	DWR_NA0002_01_s_2018_73				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Iceplant blocks visibility of landside slope. Should be removed.					

No Photos

LM Start	4.99	Rating **	M	Issue No.	79
LM End	4.99	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.135088 °	38.135088 °
				-121.594163 °	-121.594163 °
DWR ID	DWR_NA0002_01_f_2018_79				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.05	Rating **	M	Issue No.	80
LM End	5.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.134380 °	38.134380 °
				-121.593338 °	-121.593338 °
DWR ID	DWR_NA0002_01_f_2018_80				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings					

Photo 1 of 1 : SP_2019_NA0002_62_80_20190311_00048.jpg



View of prunings on the water side slope (October 2018).

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	5.06	Rating **	U	Issue No.	75
LM End	5.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.134286 °	38.134286 °
				-121.593229 °	-121.593229 °
DWR ID	DWR_NA0002_01_s _ 2018_75				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landscaping has been overgrown with berry vines completely blocking visibility and access. Vegetation here should be thinned or removed.					

Photo 1 of 1 : SP_2019_NA0002_62_75_20190311_00046.jpg



Landside landscaping is overgrown and needs thinning and removal.

LM Start	5.07	Rating **	M	Issue No.	76
LM End	5.15	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.134202 °	38.133309 °
				-121.593123 °	-121.592068 °
DWR ID	DWR_NA0002_01_s _ 2018_76				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Remove iceplant.					

No Photos

LM Start	5.12	Rating **	M	Issue No.	65
LM End	5.12	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.133695 °	38.133695 °
				-121.592516 °	-121.592516 °
DWR ID	DWR_NA0002_01_s _ 2016_65				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Remove cactus from landside slope.					

Photo 1 of 1 : SP_2019_NA0002_62_65_20190311_00040.jpg



Looking at cactus on landward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	5.13	Rating **	U	Issue No.	66
LM End	5.13	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.133600 °	38.133600 °
				-121.592414 °	-121.592414 °
DWR ID	DWR_NA0002_01_s _ 2016_66				
Comment Code					
BU : Building					
Inspector Comment					
Storage container at landside toe.					

Photo 1 of 1 : SP_2019_NA0002_62_66_20190311_00041.jpg



Looking at storage container at landward toe.

LM Start	5.18	Rating **	M	Issue No.	77
LM End	5.20	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.133062 °	38.132753 °
				-121.591798 °	-121.591452 °
DWR ID	DWR_NA0002_01_s _ 2018_77				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Remove iceplant.					

No Photos

LM Start	5.22	Rating **	U	Issue No.	78
LM End	5.24	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.132606 °	38.132322 °
				-121.591295 °	-121.590989 °
DWR ID	DWR_NA0002_01_s _ 2018_78				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Heavy landscaping completely blocks visibility and access to landside slope and toe.					

Photo 1 of 1 : SP_2019_NA0002_62_78_20190311_00047.jpg



Landside landscaping needs to be managed to allow inspection and access.

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	5.25	Rating **	M	Issue No.	61
LM End	5.25	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.132261 °	38.132261 °
				-121.590914 °	-121.590914 °
DWR ID	DWR_NA0002_01_s_2015_61				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Overgrowth landscaping on waterside slope.					

Photo 1 of 2 : SP_2019_NA0002_62_61_20190311_00038.jpg

Looking northeast at overgrowth landscaping on waterward slope.
(Spring 2015)

LM Start	5.25	Rating **	M	Issue No.	61 (cont)
LM End	5.25	Issue Type +	En	Location *	WS

Photo 2 of 2 : SP_2019_NA0002_62_61_20190311_00039.jpg

Looking southeast at overgrowth landscaping on waterward slope.
(Spring 2015)

LM Start	5.26	Rating **	M	Issue No.	60
LM End	5.26	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.132199 °	38.132199 °
				-121.590855 °	-121.590855 °
DWR ID	DWR_NA0002_01_s_2015_60				
Comment Code					
GA : Garbage					
Inspector Comment					
An abandoned child's swing set at the waterside toe.					

Photo 1 of 1 : SP_2019_NA0002_62_60_20190311_00037.jpg



Looking northeast at abandoned child's swing set at waterward 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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	5.26	Rating **	U	Issue No.	88
LM End	5.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.132089 °	38.129641 °
				-121.590747 °	-121.581769 °
DWR ID	DWR_NA0002_01_s_2019_88				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0002_62_88_20190423_00109.jpg



View looking downstream at annual vegetation on the waterside slope (Spring 2019).

LM Start	5.26	Rating **	U	Issue No.	89
LM End	5.83	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.132089 °	38.129643 °
				-121.590746 °	-121.581769 °
DWR ID	DWR_NA0002_01_s_2019_89				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0002_62_89_20190423_00110.jpg



View looking downstream at annual vegetation on the landside slope (Spring 2019).

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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0002_62_2_20190311_00001.jpg



Looking at untrimmed trees on waterward slope.

* 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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	5.36	Rating **	M	Issue No.	108	
LM End	5.36	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.131048 °	38.131048 °	
				-121.589655 °	-121.589655 °	
DWR ID	21816					
Comment Code						
Inspector Comment						
FS_ID:13090 DS_ID:21816 EP_NO: 11245 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned. Pipe at slide gate in riser on LS toe is rusted through. FIELD_STRUCT_DESC: 1 of 2: 14-inch steel irrigation pipe through the levee, 3.8 feet below the crown. 2-inch primer valve and 48-inch concrete standpipe on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 11245, 1975 - Mary Nobrega and Manuel Mendes). [Additional Reference(s): DWR Levee Log, 2005, 12-inch pipe listed. USACE Sacramento O&M Manual 103, June 1954, (Station ""R"" 35+76.7) Drawing No. 50-4-2672]. FS Date: 5/8/2013						

Photo 1 of 3 : UCIP_SP_2019_13090_21282.jpg



Filler pipe and standpipe on LS.

LM Start	5.36	Rating **	M	Issue No.	108 (cont)
LM End	5.36	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2019_13090_21281.jpg



Slide gate in 48-inch Concrete riser on LS 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	5.36	Rating **	M	Issue No.	108 (cont)	
LM End	5.36	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.131048 °	38.131048 °	
				-121.589655 °	-121.589655 °	
DWR ID	21816					
Comment Code						
Inspector Comment						
FS_ID:13090 DS_ID:21816 EP_NO: 11245 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned. Pipe at slide gate in riser on LS toe is rusted through. FIELD_STRUCT_DESC: 1 of 2: 14-inch steel irrigation pipe through the levee, 3.8 feet below the crown. 2-inch primer valve and 48-inch concrete standpipe on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 11245, 1975 - Mary Nobrega and Manuel Mendes). [Additional Reference(s): DWR Levee Log, 2005, 12-inch pipe listed. USACE Sacramento O&M Manual 103, June 1954, (Station "R" 35+76.7) Drawing No. 50-4-2672]. FS Date: 5/8/2013						

Photo 3 of 3 : UCIP_SP_2019_13090_21280.jpg



Pipe rusted through at slide gate inside concrete riser.

LM Start	5.42	Rating **	C	Issue No.	54
LM End	5.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.130335 °	38.130335 °
				-121.588920 °	-121.588920 °
DWR ID	DWR_NA0002_01_s_2014_54				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	5.43	Rating **	U	Issue No.	23
LM End	5.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.130253 °	38.129359 °
				-121.588822 °	-121.586487 °
DWR ID	DWR_NA0002_01_s_2012_23				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Control vegetation at landside toe.					

LM Start	5.43	Rating **	U	Issue No.	23 (cont)
LM End	5.57	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : SP_2019_NA0002_62_23_20190311_00012.jpg



Looking south at vegetation at landward toe. (Spring 2016)

Photo 2 of 3 : SP_2019_NA0002_62_23_20190311_00013.jpg



Looking west at dense vegetation at landward toe.

LM Start	5.43	Rating **	U	Issue No.	23 (cont)
LM End	5.57	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : SP_2019_NA0002_62_23_20190311_00014.jpg



Looking east at dense vegetation at landward toe.

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	5.64	Rating **	M	Issue No.	81
LM End	5.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.129250 °	38.129281 °
				-121.585193 °	-121.584740 °
DWR ID	DWR_NA0002_01_f_2018_81				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Cut blackberries back from waterside shoulder					

Photo 1 of 1 : SP_2019_NA0002_62_81_20190311_00049.jpg



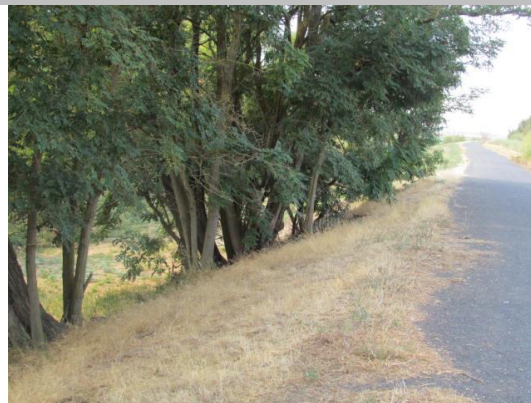
View of vegetation on the water side slope (October 2018).

LM Start	5.72	Rating **	M	Issue No.	90
LM End	5.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.129402 °	38.129643 °
				-121.583753 °	-121.581769 °
DWR ID	DWR_NA0002_01_s_2019_90				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Cut blackberries back from waterside shoulder					

No Photos

LM Start	5.78	Rating **	M	Issue No.	17
LM End	5.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.129531 °	38.129531 °
				-121.582775 °	-121.582775 °
DWR ID	DWR_NA0002_01_s_2012_17				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim trees for visibility.					

Photo 1 of 1 : SP_2019_NA0002_62_17_20190311_00010.jpg



Looking at dense trees on landward slope and toe.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.01	04/23/2019 04/23/2019	David Julian

LM Start	5.84	Rating **	M	Issue No.	51
LM End	5.84	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.129655 °	38.129655 °
				-121.581719 °	-121.581719 °
DWR ID	DWR_NA0002_01_f_2017_51				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	5.84	Rating **	U	Issue No.	82
LM End	5.84	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.129663 °	38.129663 °
				-121.581638 °	-121.581638 °
DWR ID	DWR_NA0002_01_f_2018_82				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0002_62_82_20190423_00111.jpg



View of thick landscaping vegetation on the waterside slope (Spring 2019).

LM Start	5.86	Rating **	M	Issue No.	16
LM End	6.00	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.129705 °	38.129626 °
				-121.581196 °	-121.578757 °
DWR ID	DWR_NA0002_01_s_2018_16				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

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**

Unit Cover Sheet

Spring 2019 Levee Inspection Results

Brannan Andrus Levee Maintenance District

Waterway			Bank	Unit Miles
Unit No. 02 Sacramento River			Left	11.54
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/26/2019 - 4/26/2019			
DWR Inspector	David Julian			
Accompanied By				

Summer & Winter Inspections

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

DWR must be informed on the:

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

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	0.02	Rating **	M	Issue No.	66
LM End	2.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.191770 °	38.168013 °
				-121.568000 °	-121.595162 °
DWR ID	DWR_NA0002_02_s _ 2019_66				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.04	Rating **	M	Issue No.	57
LM End	2.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.191675 °	38.170978 °
				-121.568377 °	-121.593159 °
DWR ID	DWR_NA0002_02_s _ 2019_57				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Maintain the annual vegetation.					

Photo 1 of 1 : SP_2019_NA0002_63_57_20190429_00193.jpg



View looking downstream at annual vegetation on the waterside slope (Spring 2019).

LM Start	0.43	Rating **	M	Issue No.	26
LM End	0.43	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.189212 °	38.189212 °
				-121.574757 °	-121.574757 °
DWR ID	DWR_NA0002_02_s _ 2012_26				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0002_63_26_20190311_00018.jpg



Looking northeast at fence on landward shoulder and slope.

* 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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	0.49	Rating **	U	Issue No.	39
LM End	0.49	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.188872 °	38.188872 °
				-121.575775 °	-121.575775 °
DWR ID	DWR_NA0002_02_f_2013_39				
Comment Code					
BU : Building					
Inspector Comment					
There is a storage container at the landside toe.					

Photo 1 of 1 : SP_2019_NA0002_63_39_20190311_00022.jpg



Looking south at storage container at landward toe.

LM Start	0.49	Rating **	U	Issue No.	40
LM End	0.49	Issue Type +	En	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				
Comment Code					
V6 : Landscaping					
Inspector Comment					
There are dense berryvines at the landside toe.					

Photo 1 of 1 : SP_2019_NA0002_63_40_20190311_00023.jpg



Looking east at berryvines at landward toe.

LM Start	0.59	Rating **	U	Issue No.	80
LM End	0.59	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.188260 °	38.188260 °
				-121.577467 °	-121.577467 °
DWR ID	DWR_NA0002_02_s_2018_80				
Comment Code					
BU : Building					
Inspector Comment					
There is a cluster of floating docks on waterside toe.					

Photo 1 of 1 : SP_2019_NA0002_63_80_20190311_00041.jpg



Floating docks and other debris related to homeless camp on waterside should be removed.

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	0.66	Rating **	M	Issue No.	175
LM End	0.66	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.187658 °	38.187658 °
				-121.578492 °	-121.578492 °
DWR ID	21867				
Comment Code					
Inspector Comment					
FS_ID:52689 DS_ID:21867 EP_NO: 1173 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 07/12/2018 Pump platform is leaning on a side. (O.Yakimov-DWR UCIP) FIELD_STRUCT_DESC: 1 of 4: 12-inch irrigation pipe of an unknown material through the levee, 6 feet below the crown. Pump on pile structure in stream. Siphon breaker in 24-inch corrugated metal riser unit on the landside (LS) slope. 7-foot by 9-foot concrete distribution box at the LS toe. Service pole on the LS slope with a 1-inch steel electrical conduit at same location. (Permit No. 1173, 1947 - Reclamation District No. 556). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""H"" 72+67) steel pipe listed, Drawing No. 50-4-2277]. FS Date: 7/12/2018					

LM Start	0.66	Rating **	M	Issue No.	175 (cont)
LM End	0.66	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2019_52689_77595.jpg



Pump platform on WS is distorted.

Photo 2 of 3 : UCIP_SP_2019_52689_77596.jpg



View of a bridge to pump platform on WS.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	0.66	Rating **	M	Issue No.	175 (cont)	
LM End	0.66	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.187658 °	38.187658 °	
				-121.578492 °	-121.578492 °	
DWR ID	21867					
Comment Code						
Inspector Comment						
FS_ID:52689 DS_ID:21867 EP_NO: 1173 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 07/12/2018 Pump platform is leaning on a side. (O.Yakimov-DWR UCIP) FIELD_STRUCT_DESC: 1 of 4: 12-inch irrigation pipe of an unknown material through the levee, 6 feet below the crown. Pump on pile structure in stream. Siphon breaker in 24-inch corrugated metal riser unit on the landside (LS) slope. 7-foot by 9-foot concrete distribution box at the LS toe. Service pole on the LS slope with a 1-inch steel electrical conduit at same location. (Permit No. 1173, 1947 - Reclamation District No. 556). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""H"" 72+67) steel pipe listed, Drawing No. 50-4-2277]. FS Date: 7/12/2018						

Photo 3 of 3 : UCIP_SP_2019_52689_19722.jpg



Siphon breaker and Concrete distribution box on LS.

LM Start	0.72	Rating **	U	Issue No.	97	
LM End	0.72	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Trim / Thin Trees			38.187102 °	38.187102 °	
				-121.579463 °	-121.579463 °	
DWR ID	DWR_NA0002_02_f_2018_97					
Comment Code						
T1 : Trim trees to at least five feet above ground level.						
Inspector Comment						
There is an untrimmed fig tree on the landside toe.						

Photo 1 of 2 : SP_2019_NA0002_63_97_20190311_00056.jpg



* 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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	0.72	Rating **	U	Issue No.	97 (cont)	
LM End	0.72	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			38.187102 °		38.187102 °
				-121.579463 °		-121.579463 °
DWR ID	DWR_NA0002_02_f_2018_97					
Comment Code						
T1 : Trim trees to at least five feet above ground level.						
Inspector Comment						
There is an untrimmed fig tree on the landside toe.						

Photo 2 of 2 : SP_2019_NA0002_63_97_20190311_00057.jpg



Looking east at untrimmed fig tree at landward toe.

LM Start	0.80	Rating **	U	Issue No.	8
LM End	0.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.186410 °	38.186172 °
				-121.580616 °	-121.581023 °
DWR ID	DWR_NA0002_02_s_2012_8				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 3 : SP_2019_NA0002_63_8_20190311_00004.jpg

Looking northeast at dense landscaping on landward slope and toe.
(Spring 2016)

LM Start	0.80	Rating **	U	Issue No.	8 (cont)
LM End	0.83	Issue Type +	En	Location *	LS

Photo 2 of 3 : SP_2019_NA0002_63_8_20190311_00005.jpg



Looking southwest at dense landscaping on landside slope.

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	0.80	Rating **	U	Issue No.	8 (cont)	
LM End	0.83	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.186410 °		38.186172 °
				-121.580616 °		-121.581023 °
DWR ID	DWR_NA0002_02_s_2012_8					
Comment Code						
V6 : Landscaping						
Inspector Comment						

Photo 3 of 3 : SP_2019_NA0002_63_8_20190311_00006.jpg



View of landscaping on landside slope blocking view of slope.

LM Start	0.82	Rating **	M	Issue No.	76
LM End	0.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.186317 °	38.186317 °
				-121.580837 °	-121.580837 °
DWR ID	DWR_NA0002_02_f_2018_76				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings.					

Photo 1 of 1 : SP_2019_NA0002_63_76_20190311_00037.jpg



View of prunings on the waterside shoulder (October 2018).

*** 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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	0.83	Rating **	M	Issue No.	176
LM End	0.83	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.186199°	38.186199°
				-121.580968°	-121.580968°
DWR ID	21868				
Comment Code					
Inspector Comment					
FS_ID:12164 DS_ID:21868 EP_NO: 1173 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Several patches on pipe, walkway in disrepair and 24-inch standpipe for siphon breaker on LS slope has been dislodged from the LS slope and rests at LS toe. Pipe appears to be failing at multiple places due to corrosion. FIELD_STRUCT_DESC: 2 of 4: 12-inch irrigation pipe of an unknown material through the levee, 7 feet below the crown. Pump on pile structure with a walkway in the river. Siphon breaker in 24-inch corrugated metal riser unit on the landside (LS) slope with a 7-foot by 9-foot concrete distribution box on the LS toe. Service pole on the LS slope with a 1.5-inch galvanized iron electrical conduit at the same location. (Permit No. 1173, 1947 - Reclamation District No. 556). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""H"" 52+21) steel pipe listed, Drawing No. 50-4-2277]. FS Date: 4/18/2013					

LM Start	0.83	Rating **	M	Issue No.	176 (cont)
LM End	0.83	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2019_12164_19726.jpg



Pump on pile structure with walkway on WS berm.

Photo 2 of 3 : UCIP_SP_2019_12164_19725.jpg



1.5-inch galvanized iron electrical conduit at same location as 12-inch pipe on WS slope.

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	0.83	Rating **	M	Issue No.	176 (cont)	
LM End	0.83	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.186199 °	38.186199 °	
				-121.580968 °	-121.580968 °	
DWR ID	21868					
Comment Code						
Inspector Comment						
FS_ID:12164 DS_ID:21868 EP_NO: 1173 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Several patches on pipe, walkway in disrepair and 24-inch standpipe for siphon breaker on LS slope has been dislodged from the LS slope and rests at LS toe. Pipe appears to be failing at multiple places due to corrosion. FIELD_STRUCT_DESC: 2 of 4: 12-inch irrigation pipe of an unknown material through the levee, 7 feet below the crown. Pump on pile structure with a walkway in the river. Siphon breaker in 24-inch corrugated metal riser unit on the landside (LS) slope with a 7-foot by 9-foot concrete distribution box on the LS toe. Service pole on the LS slope with a 1.5-inch galvanized iron electrical conduit at the same location. (Permit No. 1173, 1947 - Reclamation District No. 556). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""H"" 52+21) steel pipe listed, Drawing No. 50-4-2277]. FS Date: 4/18/2013						

Photo 3 of 3 : UCIP_SP_2019_12164_19724.jpg



Multiple patches on Pipe along WS berm.

LM Start	1.00	Rating **	M	Issue No.	133
LM End	1.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.184398 °	38.184398 °
				-121.583134 °	-121.583134 °
DWR ID	DWR_NA0002_02_f_2017_133				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove downed tree limbs on waterside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_133_20190311_00078.jpg



View of down tree limbs on the waterside slope (October 2018).

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	1.07	Rating **	C	Issue No.	91
LM End	1.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.183586 °	38.183586 °	
			-121.584010 °	-121.584010 °	
DWR ID	DWR_NA0002_02_f_2015_91				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree branches on waterside slope and berm.					

No Photos

LM Start	1.13	Rating **	C	Issue No.	77
LM End	1.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.182908 °	38.182908 °	
			-121.584607 °	-121.584607 °	
DWR ID	DWR_NA0002_02_f_2018_77				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove tree limbs					

No Photos

LM Start	1.16	Rating **	C	Issue No.	92
LM End	1.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.182527 °	38.182527 °	
			-121.584901 °	-121.584901 °	
DWR ID	DWR_NA0002_02_f_2015_92				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree branch on waterside slope and berm.					

No Photos

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	1.24	Rating **	M	Issue No.	58
LM End	1.24	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.181519 °	38.181519 °
				-121.585682 °	-121.585682 °
DWR ID	DWR_NA0002_02_s _ 2019_58				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove tree limb from waterside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_58_20190429_00194.jpg



View of downed tree on the waterside slope (Spring 2019).

LM Start	1.33	Rating **	M	Issue No.	81
LM End	1.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.180472 °	38.180472 °
				-121.586510 °	-121.586510 °
DWR ID	DWR_NA0002_02_s _ 2018_81				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove large fallen tree on waterside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_81_20190311_00042.jpg



View of fallen tree on the waterside.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	1.39	Rating **	M	Issue No.	177
LM End	1.39	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.179666 °	38.179666 °
				-121.587109 °	-121.587109 °
DWR ID	21869				
Comment Code					
Inspector Comment					
FS_ID:12165 DS_ID:21869 EP_NO: 11261 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned and should be done so properly. Pipe open on WS. FIELD_STRUCT_DESC: 8-inch irrigation pipe of an unknown material through the levee, 6.5 feet below the crown. Pump in pump house on berm. 7-foot by 9-foot concrete distribution box on the landside (LS) toe. Service poles on the LS slope with a 1.5-inch galvanized steel electrical conduit at same location. (Automatic Board Order (ABO) issued as Permit No. 11261, 1975 - Anthony and John Correia). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""H"" 42+33) steel pipe listed, Drawing No. 50-4-2277]. FS Date: 4/18/2013					

Photo 1 of 3 : UCIP_SP_2019_12165_19731.jpg



JP on LS slope.

LM Start	1.39	Rating **	M	Issue No.	177 (cont)
LM End	1.39	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2019_12165_19730.jpg



Pipe and pumphouse on WS berm.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	1.39	Rating **	M	Issue No.	177 (cont)	
LM End	1.39	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.179666 °	38.179666 °	
				-121.587109 °	-121.587109 °	
DWR ID	21869					
Comment Code						
Inspector Comment						
FS_ID:12165 DS_ID:21869 EP_NO: 11261 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned and should be done so properly. Pipe open on WS. FIELD_STRUCT_DESC: 8-inch irrigation pipe of an unknown material through the levee, 6.5 feet below the crown. Pump in pump house on berm. 7-foot by 9-foot concrete distribution box on the landside (LS) toe. Service poles on the LS slope with a 1.5-inch galvanized steel electrical conduit at same location. (Automatic Board Order (ABO) issued as Permit No. 11261, 1975 - Anthony and John Correia). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""H"" 42+33) steel pipe listed, Drawing No. 50-4-2277]. FS Date: 4/18/2013						

Photo 3 of 3 : UCIP_SP_2019_12165_19729.jpg



Pipe at pumphouse has been disconnected from pump and is open.

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				
Comment Code					
TR : Tree or limb					
Inspector Comment					
There is a rotten tree branch on the landside toe.					

Photo 1 of 1 : SP_2019_NA0002_63_96_20190311_00055.jpg



Looking east at broken tree limb at landward toe.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	1.43	Rating **	M	Issue No.	135
LM End	1.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.179169 °	38.179169 °
				-121.587511 °	-121.587511 °
DWR ID	DWR_NA0002_02_f_2017_135				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove downed tree limbs on waterside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_135_20190311_00079.jpg



View of tree limbs on the water side slope (October 2018).

LM Start	1.46	Rating **	U	Issue No.	174
LM End	1.46	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.178722 °	38.178722 °
				-121.587792 °	-121.587792 °
DWR ID	DWR_NA0002_02_f_2018_174				
Comment Code					
TR : Tree or limb					
Inspector Comment					
There are multiple downed trees.					

Photo 1 of 1 : SP_2019_NA0002_63_174_20190311_00105.jpg



View of down trees on landside slope (October 2018).

LM Start	1.57	Rating **	M	Issue No.	173
LM End	1.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.177462 °	38.177462 °
				-121.588772 °	-121.588772 °
DWR ID	DWR_NA0002_02_f_2018_173				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	1.60	Rating **	M	Issue No.	35
LM End	1.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.177047 °	38.176874 °
				-121.589139 °	-121.589249 °
DWR ID	DWR_NA0002_02_s_2012_35				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.61	Rating **	M	Issue No.	178
LM End	1.61	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.176874 °	38.176874 °
				-121.589200 °	-121.589200 °
DWR ID	21870				
Comment Code					
Inspector Comment					
FS_ID:12183					
DS_ID:21870					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe appears abandoned and should be done so properly.					
FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee, 5.8 feet below the crown. 3-foot by 3-foot concrete distribution box at the landside (LS) toe. Polyvinyl chloride standpipe at the waterside (WS) toe. Hose bib attachment on pipe at the LS toe.					
FS Date: 4/18/2013					

Photo 1 of 3 : UCIP_SP_2019_12183_19742.jpg



Concrete distribution box on LS toe.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	1.61	Rating **	M	Issue No.	178 (cont)	
LM End	1.61	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.176874 °	38.176874 °	
				-121.589200 °	-121.589200 °	
DWR ID	21870					
Comment Code						
Inspector Comment						
FS_ID:12183						
DS_ID:21870						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe appears abandoned and should be done so properly.						
FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee, 5.8 feet below the crown. 3-foot by 3-foot concrete distribution box at the landside (LS) toe. Polyvinyl chloride standpipe at the waterside (WS) toe. Hose bib attachment on pipe at the LS toe.						
FS Date: 4/18/2013						

Photo 2 of 3 : UCIP_SP_2019_12183_19741.jpg



Distribution box and hose bib on LS toe.

LM Start	1.61	Rating **	M	Issue No.	178 (cont)
LM End	1.61	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2019_12183_19740.jpg



4-inch suction pipe on WS toe.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	1.64	Rating **	M	Issue No.	136
LM End	1.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.176474 °	38.176474 °
				-121.589483 °	-121.589483 °
DWR ID	DWR_NA0002_02_f_2017_136				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	1.65	Rating **	N	Issue No.	78
LM End	1.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.176455 °	38.176455 °
				-121.589515 °	-121.589515 °
DWR ID	DWR_NA0002_02_f_2018_78				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0002_63_78_20190311_00039.jpg



View of tree stump on the waterside slope (October 2018).

LM Start	1.68	Rating **	M	Issue No.	79
LM End	1.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.175968 °	38.175968 °
				-121.589810 °	-121.589810 °
DWR ID	DWR_NA0002_02_f_2018_79				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove tree limb from the waterside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_79_20190311_00040.jpg



View looking upstream at large tree limb on the waterside slope (October 2018).

* 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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	1.71	Rating **	M	Issue No.	137
LM End	1.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.175575 °	38.175575 °
				-121.590055 °	-121.590055 °
DWR ID	DWR_NA0002_02_f_2017_137				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove tree limbs from the waterside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_137_20190311_00080.jpg



View of downed tree limbs on waterside slope (October 2018).

LM Start	1.80	Rating **	M	Issue No.	83
LM End	1.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.174507 °	38.174507 °
				-121.590758 °	-121.590758 °
DWR ID	DWR_NA0002_02_f_2018_83				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove limb from the waterside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_83_20190311_00044.jpg



View of down tree limb on waterside slope (October 2018).

LM Start	1.80	Rating **	U	Issue No.	45
LM End	1.82	Issue Type +	En	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				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Dense vegetation and cactus are on the landside slope and toe.					

Photo 1 of 3 : SP_2019_NA0002_63_45_20190311_00024.jpg



View of cactus on landside slope (October 2018)

*** 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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	1.80	Rating **	U	Issue No.	45 (cont)	
LM End	1.82	Issue Type +	En	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					
Comment Code						
V6 : Landscaping						
Inspector Comment						
Dense vegetation and cactus are on the landside slope and toe.						

Photo 2 of 3 : SP_2019_NA0002_63_45_20190311_00025.jpg



Looking southwest at dense vegetation on landward slope.

LM Start	1.80	Rating **	U	Issue No.	45 (cont)
LM End	1.82	Issue Type +	En	Location *	LS

Photo 3 of 3 : SP_2019_NA0002_63_45_20190311_00026.jpg



Looking northeast at dense vegetation on landward slope and toe.

LM Start	1.88	Rating **	M	Issue No.	93
LM End	1.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.173403 °	38.173221 °
				-121.591389 °	-121.591512 °
DWR ID	DWR_NA0002_02_f_2015_93				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Broken tree limbs are on the landside slope and toe.					

Photo 1 of 2 : SP_2019_NA0002_63_93_20190311_00052.jpg



Looking southeast at broken tree limb on landward slope.

*** 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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	1.88	Rating **	M	Issue No.	93 (cont)	
LM End	1.89	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.173403 °	38.173221 °	
				-121.591389 °	-121.591512 °	
DWR ID	DWR_NA0002_02_f_2015_93					
Comment Code						
TR : Tree or limb						
Inspector Comment						
Broken tree limbs are on the landside slope and toe.						

Photo 2 of 2 : SP_2019_NA0002_63_93_20190311_00053.jpg



Looking east at broken tree limb at landward toe.

LM Start	1.89	Rating **	M	Issue No.	138
LM End	1.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.173272 °	38.173272 °
				-121.591509 °	-121.591509 °
DWR ID	DWR_NA0002_02_f_2017_138				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0002_63_138_20190311_00081.jpg



Looking southeast at the landside slope.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	1.90	Rating **	M	Issue No.	179
LM End	1.90	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.173197 °	38.173197 °
				-121.591552 °	-121.591552 °
DWR ID	21872				
Comment Code					
Inspector Comment					
FS_ID:12185 DS_ID:21872 EP_NO: 11294 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned on both sides. Pipe should be abandoned properly. FIELD_STRUCT_DESC: 6-inch irrigation pipe of an unknown material through the levee, 6.5 feet below the crown. Pump in pump house on the waterside (WS) slope. 1-inch galvanized iron steel electrical conduit at same location. (Automatic Board Order (ABO) issued as Permit No. 11294, 1975 - Hubert Vandermaele). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""H"" 8+72) steel pipe listed, Drawing No. 50-4-2277]. FS Date: 4/18/2013					

LM Start	1.90	Rating **	M	Issue No.	179 (cont)
LM End	1.90	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2019_12185_19751.jpg



Pumphouse on WS slope.

Photo 2 of 3 : UCIP_SP_2019_12185_19750.jpg



Pipe and shutoff valve at pumphouse on WS slope.

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	1.90	Rating **	M	Issue No.	179 (cont)	
LM End	1.90	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.173197 °		38.173197 °
				-121.591552 °		-121.591552 °
DWR ID	21872					
Comment Code						
Inspector Comment						
FS_ID:12185 DS_ID:21872 EP_NO: 11294 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned on both sides. Pipe should be abandoned properly. FIELD_STRUCT_DESC: 6-inch irrigation pipe of an unknown material through the levee, 6.5 feet below the crown. Pump in pump house on the waterside (WS) slope. 1-inch galvanized iron steel electrical conduit at same location. (Automatic Board Order (ABO) issued as Permit No. 11294, 1975 - Hubert Vandermaele). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""H"" 8+72) steel pipe listed, Drawing No. 50-4-2277]. FS Date: 4/18/2013						

Photo 3 of 3 : UCIP_SP_2019_12185_19749.jpg



Pipe at LS slope (open).

LM Start	1.91	Rating **	U	Issue No.	12
LM End	1.94	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.173030 °	38.172598 °
				-121.591624 °	-121.591853 °
DWR ID	DWR_NA0002_02_s_2012_12				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Dense landscaping vegetation is on the landside slope.					

Photo 1 of 2 : SP_2019_NA0002_63_12_20190311_00012.jpg



Looking south at dense landscaping on landside slope and toe.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	1.91	Rating **	U	Issue No.	12 (cont)	
LM End	1.94	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.173030 °		38.172598 °
				-121.591624 °		-121.591853 °
DWR ID	DWR_NA0002_02_s_2012_12					
Comment Code						
V6 : Landscaping						
Inspector Comment						
Dense landscaping vegetation is on the landside slope.						

Photo 2 of 2 : SP_2019_NA0002_63_12_20190311_00013.jpg



Landscaping on landside slope blocking view of slope.

LM Start	2.16	Rating **	M	Issue No.	120
LM End	2.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.169814 °	38.169814 °
				-121.593951 °	-121.593951 °
DWR ID	DWR_NA0002_02_f_2016_120				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Fig tree saplings are on the landside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_120_20190311_00074.jpg



Looking northeast at fig tree saplings at landward toe.

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				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0002_63_25_20190311_00017.jpg



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

* 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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	2.42	Rating **	M	Issue No.	180
LM End	2.42	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.166819 °	38.166819 °
				-121.596590 °	-121.596590 °
DWR ID	21878				
Comment Code					
Inspector Comment					
FS_ID:12211 DS_ID:21878 EP_NO: 11263 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Further investigation to determine location of pipe should be done. Pumphouse needs to be unlocked to gather additional information. FIELD_STRUCT_DESC: 8-inch irrigation pipe of an unknown material through the levee, 3.7 feet below the crown. Pump in pump house on the waterside (WS) berm. 30-inch concrete standpipe on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 11263, 1975 - Ensher, Alexander, and Barsoon, Inc.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (RM 18.25) welded steel pipe listed, Drawing No. 6-13-1100]. FS Date: 4/18/2013					

Photo 1 of 3 : UCIP_SP_2019_12211_19770.jpg



Possible pumphouse on WS shoulder.

LM Start	2.42	Rating **	M	Issue No.	180 (cont)
LM End	2.42	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2019_12211_19769.jpg



Evidence of pipe (buried) on LS in ditch.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	2.42	Rating **	M	Issue No.	180 (cont)	
LM End	2.42	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.166819 °	38.166819 °	
				-121.596590 °	-121.596590 °	
DWR ID	21878					
Comment Code						
Inspector Comment						
FS_ID:12211 DS_ID:21878 EP_NO: 11263 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Further investigation to determine location of pipe should be done. Pumphouse needs to be unlocked to gather additional information. FIELD_STRUCT_DESC: 8-inch irrigation pipe of an unknown material through the levee, 3.7 feet below the crown. Pump in pump house on the waterside (WS) berm. 30-inch concrete standpipe on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 11263, 1975 - Ensher, Alexander, and Barsoon, Inc.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (RM 18.25) welded steel pipe listed, Drawing No. 6-13-1100]. FS Date: 4/18/2013						

Photo 3 of 3 : UCIP_SP_2019_12211_19768.jpg



JP with a meter on pole that would be appropriate for this crossing.

LM Start	2.42	Rating **	U	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense willows are on the landside slope.					

Photo 1 of 2 : SP_2019_NA0002_63_99_20190311_00058.jpg



Looking southwest at vegetation (willows) on landward slope and toe.

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	2.42	Rating **	U	Issue No.	99 (cont)	
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					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Dense willows are on the landside slope.						

Photo 2 of 2 : SP_2019_NA0002_63_99_20190311_00059.jpg



LM Start	2.47	Rating **	U	Issue No.	86
LM End	2.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.166453 °	38.165842 °
				-121.597387 °	-121.598995 °
DWR ID	DWR_NA0002_02_f_2018_86				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove wild growth on the waterside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_86_20190311_00046.jpg



View looking downstream at vegetation on waterside slope (October 2018).

LM Start	2.49	Rating **	M	Issue No.	127
LM End	2.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.166243 °	38.166160 °
				-121.597741 °	-121.597975 °
DWR ID	DWR_NA0002_02_f_2017_127				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	2.54	Rating **	M	Issue No.	181	
LM End	2.54	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.165980 °	38.165980 °	
				-121.598520 °	-121.598520 °	
DWR ID	21879					
Comment Code						
Inspector Comment						
FS_ID:53389 DS_ID:21879 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 07/12/2018 Tunnel is open on both sides. No integrity issue observed, therefore crossing downgraded to "Non-Urgent". (O.Yakimov-DWR UCIP)10/24/2016 same as previous inspection culvert is open on both ends. WS blocked by blankets -- WS structure is being used as a shelter. (O. Magana - DWR UCIP)04/18/2013 Culvert open on both ends. Needs to be abandoned properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 42-inch by 42-inch open reinforced concrete drainage culvert through the levee, 6 feet below the crown. [Additional Reference(s): DWR Levee Log, 2005, 3-foot by 3.5-foot culvert listed. USACE Sacramento O&M Manual 103, June 1954, (RM 18.16) Drawing No. 6-13-1100]. FS Date: 7/12/2018 2:59:33 PM						

LM Start	2.54	Rating **	M	Issue No.	181 (cont)
LM End	2.54	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2019_53389_19773.jpg



Concrete tunnel open on both ends.

Photo 2 of 3 : UCIP_SP_2019_53389_19772.jpg



Top of concrete tunnel on LS shoulder.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	2.54	Rating **	M	Issue No.	181 (cont)
LM End	2.54	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.165980 °	38.165980 °
				-121.598520 °	-121.598520 °
DWR ID	21879				
Comment Code					
Inspector Comment					
FS_ID:53389 DS_ID:21879 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 07/12/2018 Tunnel is open on both sides. No integrity issue observed, therefore crossing downgraded to "Non-Urgent". (O.Yakimov-DWR UCIP)10/24/2016 same as previous inspection culvert is open on both ends. WS blocked by blankets -- WS structure is being used as a shelter. (O. Magana - DWR UCIP)04/18/2013 Culvert open on both ends. Needs to be abandoned properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 42-inch by 42-inch open reinforced concrete drainage culvert through the levee, 6 feet below the crown. [Additional Reference(s): DWR Levee Log, 2005, 3-foot by 3.5-foot culvert listed. USACE Sacramento O&M Manual 103, June 1954, (RM 18.16) Drawing No. 6-13-1100]. FS Date: 7/12/2018 2:59:33 PM					

Photo 3 of 3 : UCIP_SP_2019_53389_19771.jpg



Concrete tunnel on LS shoulder.

LM Start	2.56	Rating **	M	Issue No.	82
LM End	2.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.165898 °	38.165898 °
				-121.598888 °	-121.598888 °
DWR ID	DWR_NA0002_02_f_2017_82				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
There is a footpath digging into the levee slope.					

Photo 1 of 1 : SP_2019_NA0002_63_82_20190311_00043.jpg



Looking northwest at the waterside slope.

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	2.57	Rating **	M	Issue No.	182	
LM End	2.57	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.165775 °		38.165775 °
				-121.599048 °		-121.599048 °
DWR ID	21880					
Comment Code						
Inspector Comment						
FS_ID:53513 DS_ID:21880 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 07/12/2018 Tunnel is open on both sides. No integrity issue observed, therefore crossing downgraded to "Non-Urgent". (O.Yakimov-DWR UCIP)10/24/2016 same as previous inspection concrete box culvert will need to be abandoned properly. (O. Magana - DWR UCIP)04/18/2013 tunnel should be abandoned properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 48-inch by 48-inch reinforced concrete drainage culvert through the levee, 6.5-inches below the crown. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (RM 18.13) 3-foot by 3-foot concrete box listed, Drawing No. 6-13-1100]. FS Date: 7/12/2018 9:05:37 AM						

LM Start	2.57	Rating **	M	Issue No.	182 (cont)
LM End	2.57	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2019_53513_19776.jpg



Tunnel open on LS shoulder.

Photo 2 of 3 : UCIP_SP_2019_53513_77578.jpg



Concrete tunnel on LS shoulder.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	2.57	Rating **	M	Issue No.	182 (cont)	
LM End	2.57	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.165775 °	38.165775 °	
				-121.599048 °	-121.599048 °	
DWR ID	21880					
Comment Code						
Inspector Comment						
FS_ID:53513 DS_ID:21880 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 07/12/2018 Tunnel is open on both sides. No integrity issue observed, therefore crossing downgraded to "Non-Urgent". (O.Yakimov-DWR UCIP)10/24/2016 same as previous inspection concrete box culvert will need to be abandoned properly. (O. Magana - DWR UCIP)04/18/2013 tunnel should be abandoned properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 48-inch by 48-inch reinforced concrete drainage culvert through the levee, 6.5-inches below the crown. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (RM 18.13) 3-foot by 3-foot concrete box listed, Drawing No. 6-13-1100]. FS Date: 7/12/2018 9:05:37 AM						

Photo 3 of 3 : UCIP_SP_2019_53513_19774.jpg



10'X5' concrete box on WS slope, filled with soil.

LM Start	2.58	Rating **	M	Issue No.	74
LM End	2.63	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.165945 °	38.165498 °
				-121.599345 °	-121.600080 °
DWR ID	DWR_NA0002_02_f_2018_74				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 18.1 L					
Status: Critical					
2017 Field Notes: Upgraded to critical. Vertical slope face behind a tree that is likely to pop-out soon.					
Site History: 2009 - Short reach of vertical bank at the toe. 2010 - Large tree is getting ready to fall in. 2015 - Freshly exposed tree roots.					
2018: Vegetation made it difficult to see but appeared that slope has eroded into levee prism.					

No Photos

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	2.63	Rating **	M	Issue No.	172
LM End	2.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.165348 °	38.165348 °
				-121.599952 °	-121.599952 °
DWR ID	DWR_NA0002_02_f_2018_172				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
There are multiple squirrel holes with material excavated around the holes. Saw two squirrels in the area.					

LM Start	2.63	Rating **	M	Issue No.	172 (cont)
LM End	2.63	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP_2019_NA0002_63_172_20190311_00103.jpg



View of animal hole on the landside slope (October 2018)

Photo 2 of 2 : SP_2019_NA0002_63_172_20190311_00104.jpg



View looking down the landside slope at several animal holes (October 2018).

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	2.75	Rating **	M	Issue No.	183	
LM End	2.75	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.164432 °	38.164432 °	
				-121.601918 °	-121.601918 °	
DWR ID	21881					
Comment Code						
Inspector Comment						
FS_ID:12214						
DS_ID:21881						
EP_NO: 2005						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe appears abandoned and rusty. It should be abandoned properly if it is no longer in use.						
FIELD_STRUCT_DESC: 18-inch steel sewer discharge line through the levee, 4 feet below the crown. Two pile dolphins in stream. Fire hydrant on the landside (LS) shoulder. (Permit No. 2005, 1954 - City of Isleton).						
[Additional Reference(s): DWR Levee Log, 2005].						
FS Date: 4/18/2013						

Photo 1 of 3 : UCIP_SP_2019_12214_19778.jpg



Pipe, pile structure, and dolphins on WS.

LM Start	2.75	Rating **	M	Issue No.	183 (cont)
LM End	2.75	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2019_12214_19777.jpg



Pipe on pier at WS.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	2.75	Rating **	M	Issue No.	183 (cont)	
LM End	2.75	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.164432 °	38.164432 °	
				-121.601918 °	-121.601918 °	
DWR ID	21881					
Comment Code						
Inspector Comment						
FS_ID:12214						
DS_ID:21881						
EP_NO: 2005						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe appears abandoned and rusty. It should be abandoned properly if it is no longer in use.						
FIELD_STRUCT_DESC: 18-inch steel sewer discharge line through the levee, 4 feet below the crown. Two pile dolphins in stream. Fire hydrant on the landside (LS) shoulder. (Permit No. 2005, 1954 - City of Isleton). [Additional Reference(s): DWR Levee Log, 2005].						
FS Date: 4/18/2013						

Photo 3 of 3 : UCIP_SP_2019_12214_19779.jpg



Fire hydrant on LS shoulder.

LM Start	2.81	Rating **	M	Issue No.	94
LM End	2.81	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.164077 °	38.164077 °
				-121.602853 °	-121.602853 °
DWR ID	DWR_NA0002_02_f_2015_94				
Comment Code					
FE : Fence					
Inspector Comment					
Discard downed fence on landside shoulder.					

Photo 1 of 1 : SP_2019_NA0002_63_94_20190311_00054.jpg



Looking northeast at downed fence on landward shoulder.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	2.82	Rating **	C	Issue No.	106
LM End	2.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.163992 °	38.163862 °
				-121.603032 °	-121.603318 °
DWR ID	DWR_NA0002_02_f_2018_106				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove wild grape from levee slope					

No Photos

LM Start	2.84	Rating **	M	Issue No.	184
LM End	2.84	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.163850 °	38.163850 °
				-121.603317 °	-121.603317 °
DWR ID	21882				
Comment Code					
Inspector Comment					
FS_ID:53514 DS_ID:21882 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 07/12/2018 Tunnel is open on both ends. No integrity issue observed, therefore crossing downgraded to "Non-Urgent". (O.Yakimov-DWR UCIP)10/24/2016 same as previous inspection tunnel is opened on both ends. (O. Magana - DWR UCIP)04/18/2013 Tunnel open on both ends and should be abandoned properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 1 foot below the crown. [Additional Reference(s): DWR Levee Log, 2005, 4-foot by 4.5-foot culvert listed. USACE Sacramento O&M Manual 103, June 1954, (RM 17.89) 48-inch by 52-inch concrete box listed, Drawing No. 6-13-1100]. FS Date: 7/12/2018 9:07:49 AM					

Photo 1 of 3 : UCIP_SP_2019_53514_19782.jpg



Entrance to tunnel on LS slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	2.84	Rating **	M	Issue No.	184 (cont)	
LM End	2.84	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.163850 °	38.163850 °	
				-121.603317 °	-121.603317 °	
DWR ID	21882					
Comment Code						
Inspector Comment						
FS_ID:53514 DS_ID:21882 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 07/12/2018 Tunnel is open on both ends. No integrity issue observed, therefore crossing downgraded to "Non-Urgent". (O.Yakimov-DWR UCIP)10/24/2016 same as previous inspection tunnel is opened on both ends. (O. Magana - DWR UCIP)04/18/2013 Tunnel open on both ends and should be abandoned properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 48-inch by 72-inch reinforced concrete drainage culvert through the levee, 1 foot below the crown. [Additional Reference(s): DWR Levee Log, 2005, 4-foot by 4.5-foot culvert listed. USACE Sacramento O&M Manual 103, June 1954, (RM 17.89) 48-inch by 52-inch concrete box listed, Drawing No. 6-13-1100]. FS Date: 7/12/2018 9:07:49 AM						

LM Start	2.84	Rating **	M	Issue No.	184 (cont)
LM End	2.84	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2019_53514_19781.jpg



Tunnel opening on WS slope.

Photo 3 of 3 : UCIP_SP_2019_53514_19780.jpg



Tunnel opening on WS slope.

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	2.90	Rating **	M	Issue No.	185
LM End	2.90	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.163475 °	38.163475 °
				-121.604221 °	-121.604221 °
DWR ID	21883				
Comment Code					
Inspector Comment					
FS_ID:12217 DS_ID:21883 EP_NO: 11269 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe needs to be abandoned properly if it is truly abandoned. FIELD_STRUCT_DESC: 8-inch irrigation pipe of an unknown material through the levee, 8.7 feet below the crown. Pump in pump house on the waterside (WS) slope. Slide gate in pump house. Pipe not visible on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 11269, 1975 - Griffin Steel and Supply Company). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/18/2013					

Photo 1 of 2 : UCIP_SP_2019_12217_19785.jpg



Pumphouse on WS slope.

LM Start	2.90	Rating **	M	Issue No.	185 (cont)
LM End	2.90	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2019_12217_19784.jpg



Slide gate in pumphouse on WS slope.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	2.91	Rating **	M	Issue No.	186
LM End	2.91	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.163413 °	38.163413 °
				-121.604399 °	-121.604399 °
DWR ID	21884				
Comment Code					
Inspector Comment					
FS_ID:16005 DS_ID:21884 EP_NO: 14173 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: If pipe is still in use it should be marked properly on levee. FIELD_STRUCT_DESC: 12-inch steel telephone conduit through the levee, 2 feet below the crown, and under the channel. Four 4-inch galvanized iron conductor pipes sleeved through 12-inch steel conduit. Sign on the waterside (WS) slope of levee across river provides location for this crossing. (Permit No. 14173, 1985 - Owner Unknown). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/18/2013					

Photo 1 of 2 : UCIP_SP_2019_16005_27067.jpg



Sign on opposite side of river provides indication of pipe location.

LM Start	2.91	Rating **	M	Issue No.	186 (cont)
LM End	2.91	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2019_16005_27066.jpg



Sign on opposite side of river provides indication of pipe location.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	2.93	Rating **	U	Issue No.	30
LM End	3.12	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.163317 °	38.162707 °
				-121.604813 °	-121.608262 °
DWR ID	DWR_NA0002_02_s_2012_30				
Comment Code					
UR : Urban					
Inspector Comment					
There are several encroachments within the town limits along the landside slope.					

LM Start	2.93	Rating **	U	Issue No.	30 (cont)
LM End	3.12	Issue Type +	En	Location *	LS

Photo 1 of 2 : SP_2019_NA0002_63_30_20190311_00020.jpg



Looking north at several encroachments along landward slope and toe.

Photo 2 of 2 : SP_2019_NA0002_63_30_20190311_00021.jpg



Looking south at several encroachments along landward slope and toe.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	2.99	Rating **	M	Issue No.	187	
LM End	2.99	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.163063 °	38.163063 °	
				-121.605799 °	-121.605799 °	
DWR ID	21886					
Comment Code						
Inspector Comment						
FS_ID:12724 DS_ID:21886 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe should be abandoned properly. FIELD_STRUCT_DESC: *ABANDONED* 6-inch pipe of an unknown material or purpose through levee 4.5 feet below crown. Originally included in the 1959 O&M manual. Pipe visible at foundation on WS shoulder. FS Date: 4/24/2013 10:00:00 AM						

Photo 1 of 2 : UCIP_SP_2019_12724_20643.jpg



Pipe visible at concrete foundation on WS shoulder.

LM Start	2.99	Rating **	M	Issue No.	187 (cont)
LM End	2.99	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2019_12724_20642.jpg



Foundation on WS shoulder.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	3.22	Rating **	U	Issue No.	7
LM End	3.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.162609 °	38.162609 °
				-121.609979 °	-121.609979 °
DWR ID	DWR_NA0002_02_s_2012_7				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 3 : SP_2019_NA0002_63_7_20190311_00001.jpg



Looking southwest at the landside slope.

LM Start	3.22	Rating **	U	Issue No.	7 (cont)
LM End	3.22	Issue Type +	En	Location *	LS

Photo 2 of 3 : SP_2019_NA0002_63_7_20190311_00002.jpg



Looking south at overgrown landscaping on landward slope. (Fall 2016)

LM Start	3.22	Rating **	U	Issue No.	7 (cont)
LM End	3.22	Issue Type +	En	Location *	LS

Photo 3 of 3 : SP_2019_NA0002_63_7_20190311_00003.jpg



Looking south at overgrown landscaping on landward slope. (Fall 2015)

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	3.29	Rating **	M	Issue No.	188
LM End	3.29	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.162430 °	38.162430 °
				-121.611248 °	-121.611248 °
DWR ID	23135				
Comment Code					
Inspector Comment					
FS_ID:15966 DS_ID:23135 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to determine disposition and use of pipe. FIELD_STRUCT_DESC: 4-inch cast iron drainage pipe through the levee, 8 feet below the crown. Pipe visible next to foundation on the landside (LS) toe. FS Date: 4/24/2013					

Photo 1 of 2 : UCIP_SP_2019_15966_26949.jpg



Pipe visible next to foundation on LS slope.

LM Start	3.29	Rating **	M	Issue No.	188 (cont)
LM End	3.29	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2019_15966_26948.jpg



Pipe visible next to foundation on LS slope.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	3.31	Rating **	M	Issue No.	189	
LM End	3.31	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.162378 °	38.162378 °	
				-121.611656 °	-121.611656 °	
DWR ID	23136					
Comment Code						
Inspector Comment						
FS_ID:41838 DS_ID:23136 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Only USAA paint on pavement. Gasline should be permanently marked. FIELD_STRUCT_DESC: Gas line markers on pavement. FS Date: 4/24/2013						

No Photos

LM Start	3.37	Rating **	M	Issue No.	190
LM End	3.37	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.162388 °	38.162388 °
				-121.612847 °	-121.612847 °
DWR ID	21892				
Comment Code					
Inspector Comment					
FS_ID:12745 DS_ID:21892 EP_NO: 11266 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: This pipe has been abandoned and should be abandoned properly. Pumphouse has collapsed. FIELD_STRUCT_DESC: 6-inch irrigation pipe of an unknown material through the levee, 4.5 feet below the crown. Pump in pump house on the waterside (WS). (Automatic Board Order (ABO) issued as Permit No. 11266, 1975 - Gardiner Improvement Company). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/24/2013					

Photo 1 of 2 : UCIP_SP_2019_12745_20683.jpg



Pipe and wrecked pumphouse on WS 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	3.37	Rating **	M	Issue No.	190 (cont)	
LM End	3.37	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.162388 °	38.162388 °	
				-121.612847 °	-121.612847 °	
DWR ID	21892					
Comment Code						
Inspector Comment						
FS_ID:12745 DS_ID:21892 EP_NO: 11266 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: This pipe has been abandoned and should be abandoned properly. Pumphouse has collapsed. FIELD_STRUCT_DESC: 6-inch irrigation pipe of an unknown material through the levee, 4.5 feet below the crown. Pump in pump house on the waterside (WS). (Automatic Board Order (ABO) issued as Permit No. 11266, 1975 - Gardiner Improvement Company). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/24/2013						

Photo 2 of 2 : UCIP_SP_2019_12745_20682.jpg



Pipe visible on WS toe.

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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
There is bamboo on the waterside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_100_20190311_00060.jpg



Looking southwest at vegetation (bamboo) on waterward slope.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

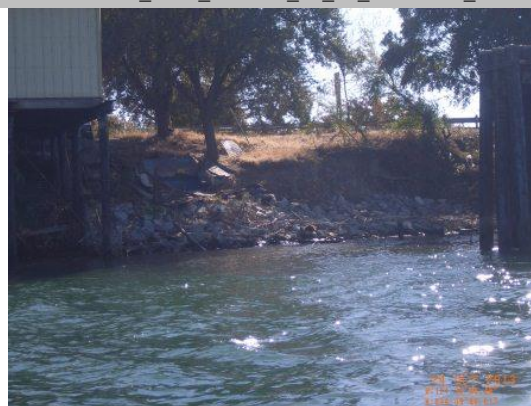
Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	3.43	Rating **	U	Issue No.	75
LM End	3.56	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.162459 °	38.162828 °
				-121.613848 °	-121.616263 °
DWR ID	DWR_NA0002_02_f _ 2018_75				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 17.2 L					
Status: Critical					
2017 Field Notes: More rock has been placed in spots along the toe, but it is still insufficient.					
Site History: 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.					
2018: Site with erosion almost into roadway still there. Keep as critical.					

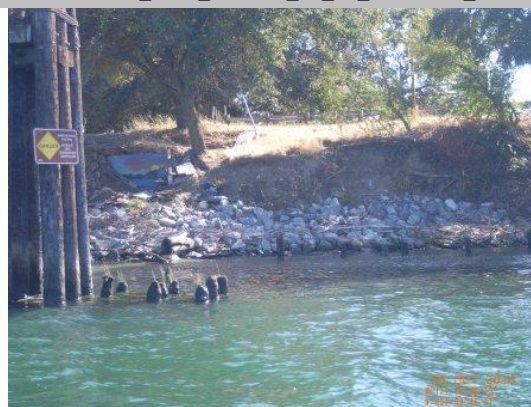
LM Start	3.43	Rating **	U	Issue No.	75 (cont)
LM End	3.56	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP_2019_NA0002_63_75_20190311_00035.jpg



USACE 2013 Photo #1

Photo 2 of 2 : SP_2019_NA0002_63_75_20190311_00036.jpg



USACE 2013 Photo #2

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	3.44	Rating **	M	Issue No.	191
LM End	3.44	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.162473 °	38.162473 °
				-121.613963 °	-121.613963 °
DWR ID	21893				
Comment Code					
Inspector Comment					
FS_ID:12746 DS_ID:21893 EP_NO: 11275 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned and should be abandoned properly. Pipe open on both ends. FIELD_STRUCT_DESC: 8-inch irrigation pipe of an unknown material through the levee, 7.7 feet below the crown. Pump in pump house on the waterside (WS) slope. (Automatic Board Order (ABO) issued as Permit No. 11275, 1975 - M. R. V., Inc., Isleton Motel). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 17.3) (Reclamation District No. 2067) steel pipe listed]. FS Date: 4/24/2013					

LM Start	3.44	Rating **	M	Issue No.	191 (cont)
LM End	3.44	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2019_12746_20686.jpg



Pipe and pump visible on WS slope

Photo 2 of 3 : UCIP_SP_2019_12746_20685.jpg



Pipe visible on LS slope near 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	3.44	Rating **	M	Issue No.	191 (cont)	
LM End	3.44	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.162473 °		38.162473 °
				-121.613963 °		-121.613963 °
DWR ID	21893					
Comment Code						
Inspector Comment						
FS_ID:12746 DS_ID:21893 EP_NO: 11275 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned and should be abandoned properly. Pipe open on both ends. FIELD_STRUCT_DESC: 8-inch irrigation pipe of an unknown material through the levee, 7.7 feet below the crown. Pump in pump house on the waterside (WS) slope. (Automatic Board Order (ABO) issued as Permit No. 11275, 1975 - M. R. V., Inc., Isleton Motel). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 17.3) (Reclamation District No. 2067) steel pipe listed]. FS Date: 4/24/2013						

Photo 3 of 3 : UCIP_SP_2019_12746_20684.jpg



Pipe and pump on WS toe.

LM Start	3.47	Rating **	U	Issue No.	101
LM End	3.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.162492 °	38.162600 °
				-121.614521 °	-121.615667 °
DWR ID	DWR_NA0002_02_s_2014_101				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0002_63_101_20190311_00061.jpg



Looking at dense landscaping on landward slope.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	3.53	Rating **	U	Issue No.	171
LM End	3.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.162600 °	38.162658 °
				-121.615664 °	-121.616295 °
DWR ID	DWR_NA0002_02_f_2018_171				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0002_63_171_20190311_00102.jpg



View looking upstream at thick vegetation on the landside slope (October 2018).

LM Start	3.57	Rating **	C	Issue No.	111
LM End	3.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.162720 °	38.162720 °
				-121.616493 °	-121.616493 °
DWR ID	DWR_NA0002_02_f_2018_111				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the willows next to the roadway.					

No Photos

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	3.70	Rating **	M	Issue No.	192
LM End	3.70	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.163048 °	38.163048 °
				-121.618839 °	-121.618839 °
DWR ID	21895				
Comment Code					
Inspector Comment					
FS_ID:12748					
DS_ID:21895					
EP_NO: 1615					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe abandoned and should be abandoned properly.					
FIELD_STRUCT_DESC: 8-inch irrigation pipe of an unknown material					
through the levee, 7.7 feet below the crown. 6-foot by 6-foot concrete					
distribution box on the LS toe. (Permit No. 1615, 1951 - Jones and					
Miller). [Additional Reference(s): DWR Levee Log, 2005. USACE					
Sacramento O&M Manual 102, April 1959, (RM 17.0) (Reclamation					
District No. 2067) steel pipe listed].					
FS Date: 4/24/2013					

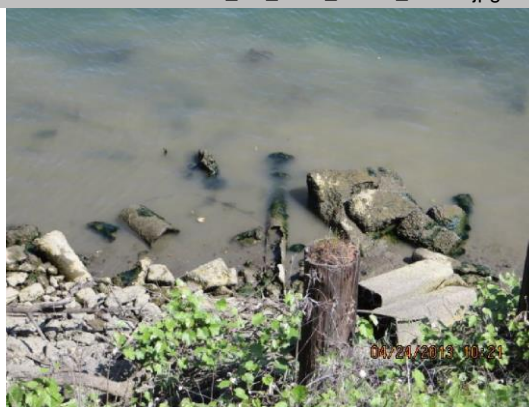
Photo 1 of 2 : UCIP_SP_2019_12748_20692.jpg



Concrete distribution box on LS toe.

LM Start	3.70	Rating **	M	Issue No.	192 (cont)
LM End	3.70	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2019_12748_20691.jpg



Rusted out pipe visible at WS toe.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	3.74	Rating **	M	Issue No.	170
LM End	3.74	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.163167 °	38.163167 °
				-121.619495 °	-121.619495 °
DWR ID	DWR_NA0002_02_f_2018_170				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	3.92	Rating **	M	Issue No.	108
LM End	3.92	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.164020 °	38.164020 °
				-121.622641 °	-121.622641 °
DWR ID	DWR_NA0002_02_s_2019_108				
Comment Code					
LI : Landscape Irrigation					
Inspector Comment					
There is an irrigation pipe along the landside toe.					

Photo 1 of 1 : SP_2019_NA0002_63_108_20190429_00208.jpg



View of landscape irrigation at the landside toe (Spring 2019).

LM Start	3.92	Rating **	U	Issue No.	98
LM End	3.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.164019 °	38.164019 °
				-121.622642 °	-121.622642 °
DWR ID	DWR_NA0002_02_s_2019_98				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove arundo from the landside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_98_20190429_00207.jpg



View of arundo on the landside slope (Spring 2019).

* 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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	3.92	Rating **	M	Issue No.	193 (cont)	
LM End	3.92	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.164063 °		38.164063 °
				-121.622650 °		-121.622650 °
DWR ID	21898					
Comment Code						
Inspector Comment						
FS_ID:12752						
DS_ID:21898						
EP_NO: 11287						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Aging pipe with repair on WS slope. Good candidate for vidio inspection.						
FIELD_STRUCT_DESC: 5-inch irrigation pipe of an unknown material through the levee, 5.5 feet below the crown. Pump in pump house on the landside (LS). Shutoff valve in pump house on the LS toe. (Automatic Board Order (ABO) issued as Permit No. 11287, 1975 - Norman Silva). [Additional Reference(s): DWR Levee Log, 2005, 6-inch pipe listed. USACE Sacramento O&M Manual 102, April 1959, (RM 16.8) (Reclamation District No. 2067) 6-inch steel pipe listed].						
FS Date: 4/24/2013						

Photo 3 of 3 : UCIP_SP_2019_12752_20697.jpg



Pipe visible in water at left of tree.

LM Start	3.96	Rating **	C	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed tree blocking landside slope and toe.					

No Photos

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	4.02	Rating **	U	Issue No.	59
LM End	4.13	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.164498 °	38.165167 °
				-121.624343 °	-121.626273 °
DWR ID	DWR_NA0002_02_s_2012_59				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0002_63_59_20190311_00030.jpg



Looking west at dense landscaping on landward slope.

LM Start	4.05	Rating **	M	Issue No.	194	
LM End	4.05	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.164727 °	38.164727 °	
				-121.624869 °	-121.624869 °	
DWR ID	21902					
Comment Code						
Inspector Comment						
FS_ID:12764 DS_ID:21902 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Need to determine disposition of this crossing. FIELD_STRUCT_DESC: 48-inch by 48-inch concrete tunnel of an unknown purpose through the levee, 5 feet below the crown. [Additional Reference(s): USACE Sacramento O&M Manual 102, April 1959, (RM 16.7) (Reclamation District No. 2067) abandoned]. FS Date: 4/24/2013						

No Photos

* 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
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**Flood Control Project Maintenance
Levee Inspections**

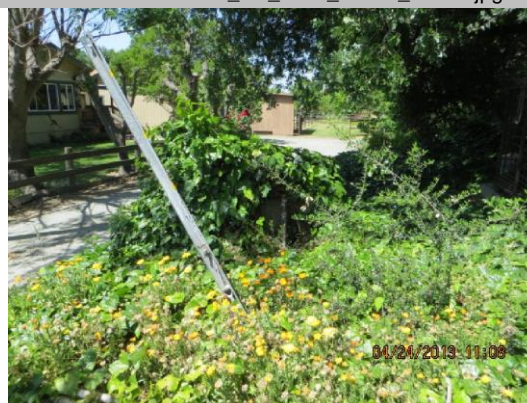
Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	4.11	Rating **	M	Issue No.	195
LM End	4.11	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.165016 °	38.165016 °
				-121.625834 °	-121.625834 °
DWR ID	21904				
Comment Code					
Inspector Comment					
FS_ID:12768 DS_ID:21904 EP_NO: 787 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe may be abandoned and should be done so properly if not being used. Good candidate for video inspection. FIELD_STRUCT_DESC: 2 of 2: 14-inch steel irrigation pipe through the levee, 4.2 feet below the crown. Pump on pile structure in stream. (Permit No. 787, 1939 - J. E. Silva, et al.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 16.6) (Reclamation District No. 2067)]. FS Date: 4/24/2013					

Photo 1 of 3 : UCIP_SP_2019_12768_20731.jpg



Concrete distribution box at LS toe.

LM Start	4.11	Rating **	M	Issue No.	195 (cont)
LM End	4.11	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2019_12768_20730.jpg



Pipe on LS slope.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	4.11	Rating **	M	Issue No.	195 (cont)	
LM End	4.11	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.165016 °	38.165016 °	
				-121.625834 °	-121.625834 °	
DWR ID	21904					
Comment Code						
Inspector Comment						
FS_ID:12768 DS_ID:21904 EP_NO: 787 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe may be abandoned and should be done so properly if not being used. Good candidate for video inspection. FIELD_STRUCT_DESC: 2 of 2: 14-inch steel irrigation pipe through the levee, 4.2 feet below the crown. Pump on pile structure in stream. (Permit No. 787, 1939 - J. E. Silva, et al.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 16.6) (Reclamation District No. 2067)]. FS Date: 4/24/2013						

Photo 3 of 3 : UCIP_SP_2019_12768_20729.jpg



Pipe on WS slope.

LM Start	4.13	Rating **	M	Issue No.	85
LM End	4.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.165098 °	38.165098 °
				-121.626133 °	-121.626133 °
DWR ID	DWR_NA0002_02_s_2019_85				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0002_63_85_20190311_00045.jpg



View of prunings on the waterside slope (October 2018).

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	4.29	Rating **	M	Issue No.	169
LM End	4.29	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.166258 °	38.166258 °
				-121.628717 °	-121.628717 °
DWR ID	DWR_NA0002_02_f_2018_169				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the downed tree from the landside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_169_20190311_00101.jpg



View of downed tree on landside slope (October 2018).

LM Start	4.29	Rating **	M	Issue No.	113
LM End	4.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.166335 °	38.166335 °
				-121.628785 °	-121.628785 °
DWR ID	DWR_NA0002_02_f_2018_113				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the waterside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_113_20190311_00069.jpg



View of prunings on the waterside slope (October 2018).

LM Start	4.32	Rating **	M	Issue No.	168
LM End	4.32	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.166492 °	38.166492 °
				-121.629105 °	-121.629105 °
DWR ID	DWR_NA0002_02_f_2018_168				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	4.47	Rating **	M	Issue No.	125
LM End	4.47	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.167118 °	38.167118 °
				-121.631709 °	-121.631709 °
DWR ID	DWR_NA0002_02_f _ 2017_125				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	4.48	Rating **	M	Issue No.	196
LM End	4.48	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.167174 °	38.167174 °
				-121.631927 °	-121.631927 °
DWR ID	21907				
Comment Code					
Inspector Comment					
FS_ID:16010 DS_ID:21907 EP_NO: 11274 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned and should be abandoned properly if not already done so. FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 10-inch irrigation pipe of an unknown material through the levee, 6.6 feet below the crown. Pump in pump house on the landside (LS) slope. Pump house not visible, 4/24/2013. (Automatic Board Order (ABO) issued as Permit No. 11274, 1975 - Henry Martin). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 16.2) (Reclamation District No. 2067) steel pipe listed]. FS Date: 4/24/2013					

Photo 1 of 3 : UCIP_SP_2019_16010_27085.jpg



Possible portion of pumphouse visible off WS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	4.48	Rating **	M	Issue No.	196 (cont)	
LM End	4.48	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.167174 °		38.167174 °
				-121.631927 °		-121.631927 °
DWR ID	21907					
Comment Code						
Inspector Comment						
FS_ID:16010 DS_ID:21907 EP_NO: 11274 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned and should be abandoned properly if not already done so. FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 10-inch irrigation pipe of an unknown material through the levee, 6.6 feet below the crown. Pump in pump house on the landside (LS) slope. Pump house not visible, 4/24/2013. (Automatic Board Order (ABO) issued as Permit No. 11274, 1975 - Henry Martin). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 16.2) (Reclamation District No. 2067) steel pipe listed]. FS Date: 4/24/2013						

LM Start	4.48	Rating **	M	Issue No.	196 (cont)
LM End	4.48	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2019_16010_27087.jpg



JP and meter on LS slope at location of abandoned pipe.

Photo 3 of 3 : UCIP_SP_2019_16010_27086.jpg



Abandoned pipe on LS slope.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	4.70	Rating **	M	Issue No.	87
LM End	4.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.168342 °	38.168342 °
				-121.635645 °	-121.635645 °
DWR ID	DWR_NA0002_02_s_2017_87				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	4.70	Rating **	U	Issue No.	123	
LM End	4.72	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.168348 °		38.168456 °
				-121.635726 °		-121.636125 °
DWR ID	DWR_NA0002_02_f_2016_123					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
There are dense grapevines on waterside slope.						

Photo 1 of 1 : SP_2019_NA0002_63_123_20190311_00075.jpg



Looking west at dense vines on waterward slope and toe.

LM Start	4.73	Rating **	M	Issue No.	165
LM End	4.73	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.168435 °	38.168435 °
				-121.636172 °	-121.636172 °
DWR ID	DWR_NA0002_02_f_2018_165				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the downed tree limb from the landside toe.					

Photo 1 of 1 : SP_2019_NA0002_63_165_20190311_00098.jpg



View of downed tree limbs on the landside toe (October 2018).

* 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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	4.78	Rating **	M	Issue No.	197 (cont)	
LM End	4.78	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.168744 °		38.168744 °
				-121.637155 °		-121.637155 °
DWR ID	21908					
Comment Code						
Inspector Comment						
FS_ID:12773						
DS_ID:21908						
EP_NO: 11285						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pit under pipe on WS shoulder - possible leak.						
Excavation of pipe on LS slope into levee prism.						
FIELD_STRUCT_DESC: 20-inch irrigation pipe of an unknown material, sleeved through a 22-inch, sleeved through a 24-inch pipe, through the levee, 3 feet below the crown. Pump on the landside (LS). Small pump on the LS shoulder and a 7-foot by 9-foot concrete sump on the LS toe. (Automatic Board Order (ABO) issued as Permit No. 11285, 1975 - Manuel Silva). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 15.9) (Reclamation District No. 2067) steel pipe listed].						
FS Date: 5/2/2013						

Photo 3 of 3 : UCIP_SP_2019_12773_20738.jpg



Pipe on LS slope with excavation in levee prism.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	4.83	Rating **	M	Issue No.	198	
LM End	4.83	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.168887 °	38.168887 °	
				-121.637957 °	-121.637957 °	
DWR ID	21909					
Comment Code						
Inspector Comment						
FS_ID:12774 DS_ID:21909 EP_NO: 724 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe open on waterside at fallen down pumphouse. Pipe abandoned. Service pole on LS slope down on ground near broken standpipe. Pipe needs to be properly abandoned. FIELD_STRUCT_DESC: 10-inch irrigation pipe of an unknown material through the levee, 3.8 feet below the crown. Pump in pump house on the waterside (WS) slope. Service pole on the landside (LS) slope. Replaces a 10-inch pipe at approximately the same location. 32-inch concrete standpipe on the LS toe. 1.5-inch electrical conduit runs parallel to 10-inch pipe. (Permit No. 724, 1937 - California Lands, Inc., and Frank Hodapp). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 15.8) (Reclamation District No. 2067) steel pipe listed]. FS Date: 5/2/2013						

Photo 1 of 3 : UCIP_SP_2019_12774_20745.jpg



Broken down pumphouse on WS slope.

LM Start	4.83	Rating **	M	Issue No.	198 (cont)
LM End	4.83	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2019_12774_20744.jpg



deformed and crushed pipe with 1.5-inch electrical conduit on WS slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	4.83	Rating **	M	Issue No.	198 (cont)	
LM End	4.83	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.168887 °	38.168887 °	
				-121.637957 °	-121.637957 °	
DWR ID	21909					
Comment Code						
Inspector Comment						
FS_ID:12774 DS_ID:21909 EP_NO: 724 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe open on waterside at fallen down pumphouse. Pipe abandoned. Service pole on LS slope down on ground near broken standpipe. Pipe needs to be properly abandoned. FIELD_STRUCT_DESC: 10-inch irrigation pipe of an unknown material through the levee, 3.8 feet below the crown. Pump in pump house on the waterside (WS) slope. Service pole on the landside (LS) slope. Replaces a 10-inch pipe at approximately the same location. 32-inch concrete standpipe on the LS toe. 1.5-inch electrical conduit runs parallel to 10-inch pipe. (Permit No. 724, 1937 - California Lands, Inc., and Frank Hodapp). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 15.8) (Reclamation District No. 2067) steel pipe listed]. FS Date: 5/2/2013						

Photo 3 of 3 : UCIP_SP_2019_12774_20743.jpg



Broken Concrete standpipe on LS toe.

LM Start	4.91	Rating **	M	Issue No.	164
LM End	4.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.169215 °	38.169215 °
				-121.639407 °	-121.639407 °
DWR ID	DWR_NA0002_02_f_2018_164				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	4.92	Rating **	M	Issue No.	88
LM End	4.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.169262 °	38.169262 °
				-121.639497 °	-121.639497 °
DWR ID	DWR_NA0002_02_s_2017_88				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove dead tree on landside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_88_20190311_00047.jpg



Looking east at dead tree on landward slope and toe.

LM Start	5.01	Rating **	U	Issue No.	163
LM End	5.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.169750 °	38.169750 °
				-121.641107 °	-121.641107 °
DWR ID	DWR_NA0002_02_f_2018_163				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim the fig tree on the landside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_163_20190429_00206.jpg



View looking downstream at fig tree on the landside slope (Spring 2019).

LM Start	5.11	Rating **	M	Issue No.	162
LM End	5.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.170687 °	38.170687 °
				-121.642475 °	-121.642475 °
DWR ID	DWR_NA0002_02_f_2018_162				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree from the landside toe.					

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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	5.15	Rating **	C	Issue No.	161
LM End	5.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.171135 °	38.171135 °
				-121.642927 °	-121.642927 °
DWR ID	DWR_NA0002_02_f_2018_161				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove tree limbs from land side slope					

No Photos

LM Start	5.25	Rating **	M	Issue No.	124
LM End	5.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.171928 °	38.171873 °
				-121.644455 °	-121.645082 °
DWR ID	DWR_NA0002_02_f_2017_124				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	5.33	Rating **	C	Issue No.	9
LM End	5.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.171880 °	38.171880 °
				-121.645879 °	-121.645879 °
DWR ID	DWR_NA0002_02_s_2012_9				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	5.36	Rating **	M	Issue No.	115
LM End	5.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.171892 °	38.171892 °
				-121.646387 °	-121.646387 °
DWR ID	DWR_NA0002_02_f_2018_115				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the waterside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_115_20190311_00070.jpg



View of prunings on the waterside slope (October 2018).

LM Start	5.38	Rating **	M	Issue No.	116
LM End	5.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.171858 °	38.171858 °
				-121.646832 °	-121.646832 °
DWR ID	DWR_NA0002_02_f_2018_116				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the waterside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_116_20190311_00071.jpg



LM Start	5.39	Rating **	C	Issue No.	56
LM End	5.39	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.171850 °	38.171850 °
				-121.647000 °	-121.647000 °
DWR ID	DWR_NA0002_02_f_2013_56				
Comment Code					
FE : Fence					
Inspector Comment					
Fencing should be removed.					

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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	5.40	Rating **	M	Issue No.	117
LM End	5.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.171830 °	38.171830 °
				-121.647125 °	-121.647125 °
DWR ID	DWR_NA0002_02_s_2019_117				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the waterside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_117_20190311_00072.jpg



View of prunings on the waterside slope (October 2018)

LM Start	5.41	Rating **	M	Issue No.	199
LM End	5.41	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.171824 °	38.171824 °
				-121.647265 °	-121.647265 °
DWR ID	21910				
Comment Code					
Inspector Comment					
FS_ID:12776 DS_ID:21910 EP_NO: 7089A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Hole at LS toe over pipe possible sign of leakage. FIELD_STRUCT_DESC: 7-inch drainage pipe of an unknown material through the levee, 13 feet below the crown. Pump in pump house on the landside (LS). 1.5-inch galvanized steel electrical conduit at same location. 4-foot by 6-foot concrete distribution box off the LS toe next to pump house. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 15.3) (Reclamation District No. 2067) steel pipe listed]. FS Date: 5/2/2013					

Photo 1 of 3 : UCIP_SP_2019_12776_20754.jpg



Pipe and electrical conduit on WS slope.

* 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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	5.41	Rating **	M	Issue No.	199 (cont)	
LM End	5.41	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.171824 °	38.171824 °	
				-121.647265 °	-121.647265 °	
DWR ID	21910					
Comment Code						
Inspector Comment						
FS_ID:12776 DS_ID:21910 EP_NO: 7089A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Hole at LS toe over pipe possible sign of leakage. FIELD_STRUCT_DESC: 7-inch drainage pipe of an unknown material through the levee, 13 feet below the crown. Pump in pump house on the landside (LS). 1.5-inch galvanized steel electrical conduit at same location. 4-foot by 6-foot concrete distribution box off the LS toe next to pump house. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 15.3) (Reclamation District No. 2067) steel pipe listed]. FS Date: 5/2/2013						

Photo 2 of 3 : UCIP_SP_2019_12776_20753.jpg



Pump on pier at WS toe.

LM Start	5.41	Rating **	M	Issue No.	199 (cont)
LM End	5.41	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2019_12776_20752.jpg



Pipe under pier.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	5.43	Rating **	M	Issue No.	121
LM End	5.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.171837 °	38.171837 °
				-121.647735 °	-121.647735 °
DWR ID	DWR_NA0002_02_f_2018_121				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	5.44	Rating **	M	Issue No.	160
LM End	5.44	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.171782 °	38.171782 °
				-121.647787 °	-121.647787 °
DWR ID	DWR_NA0002_02_f_2018_160				
Comment Code					
V6 : Landscaping					
Inspector Comment					
There is ice plant on the landside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_160_20190311_00096.jpg



View looking upstream at ice plant on landside slope (October 2018).

LM Start	5.58	Rating **	M	Issue No.	10
LM End	5.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.172019 °	38.172238 °
				-121.650327 °	-121.651163 °
DWR ID	DWR_NA0002_02_s_2012_10				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	5.65	Rating **	U	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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove arundo on the waterside slope.					

LM Start	5.65	Rating **	U	Issue No.	11 (cont)
LM End	5.69	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP_2019_NA0002_63_11_20190311_00010.jpg



Looking northwest at arundo on waterward slope. (Fall 2016)

Photo 2 of 2 : SP_2019_NA0002_63_11_20190311_00011.jpg



Looking west at arundo on waterward slope. (Spring 2016)

LM Start	5.66	Rating **	M	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				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	5.77	Rating **	M	Issue No.	200
LM End	5.77	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.172940 °	38.172940 °
				-121.653700 °	-121.653700 °
DWR ID	21912				
Comment Code					
Inspector Comment					
FS_ID:12778 DS_ID:21912 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned. Erosion on WS slope at location where pipe should be. FIELD_STRUCT_DESC: *ABANDONED* 12-inch drainage pipe of an unknown material through the levee, 13 feet below the crown. Pump and gate valve in pump house at the landside (LS) toe. 1.5-inch electrical conduit along pipe at same location. 42-inch concrete standpipe at the LS toe. [Additional Reference(s): USACE Sacramento O&M Manual 102, April 1959, (RM 14.8) (Reclamation District No. 2067) steel pipe listed FS Date: 5/2/2013					

LM Start	5.77	Rating **	M	Issue No.	200 (cont)
LM End	5.77	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2019_12778_20762.jpg



Conduit at WS toe.

Photo 2 of 3 : UCIP_SP_2019_12778_20761.jpg



Erosion along pipe alignment at WS slope.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	5.77	Rating **	M	Issue No.	200 (cont)	
LM End	5.77	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.172940 °		38.172940 °
				-121.653700 °		-121.653700 °
DWR ID	21912					
Comment Code						
Inspector Comment						
FS_ID:12778 DS_ID:21912 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned. Erosion on WS slope at location where pipe should be. FIELD_STRUCT_DESC: *ABANDONED* 12-inch drainage pipe of an unknown material through the levee, 13 feet below the crown. Pump and gate valve in pump house at the landside (LS) toe. 1.5-inch electrical conduit along pipe at same location. 42-inch concrete standpipe at the LS toe. [Additional Reference(s): USACE Sacramento O&M Manual 102, April 1959, (RM 14.8) (Reclamation District No. 2067) steel pipe listed FS Date: 5/2/2013						

Photo 3 of 3 : UCIP_SP_2019_12778_20760.jpg



Concrete standpipe and pump on LS toe.

LM Start	6.04	Rating **	U	Issue No.	129
LM End	6.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation				38.174613 °
				-121.658168 °	-121.658168 °
DWR ID	DWR_NA0002_02_f_2018_129				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove arundo on the waterside shoulder.					

Photo 1 of 1 : SP_2019_NA0002_63_129_20190311_00076.jpg



View looking upstream at arundo on waterside shoulder (October 2018).

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	6.05	Rating **	M	Issue No.	89
LM End	7.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.174592 °	38.158514 °
				-121.658292 °	-121.675448 °
DWR ID	DWR_NA0002_02_s_2019_89				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Maintain annual vegetation all the way down the landside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_89_20190429_00203.jpg



View looking upstream at annual vegetation at the bottom of the landside slope (Spring 2019).

LM Start	6.12	Rating **	M	Issue No.	103
LM End	6.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.174670 °	38.174670 °
				-121.659592 °	-121.659592 °
DWR ID	DWR_NA0002_02_f_2015_103				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	6.14	Rating **	U	Issue No.	130
LM End	6.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.174608 °	38.174608 °
				-121.659917 °	-121.659917 °
DWR ID	DWR_NA0002_02_f_2018_130				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	6.20	Rating **	M	Issue No.	201
LM End	6.20	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.174308 °	38.174308 °
				-121.661105 °	-121.661105 °
DWR ID	21913				
Comment Code					
Inspector Comment					
FS_ID:12779					
DS_ID:21913					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Not Found					
UCIP Comments: Unable to locate due to excessive vegetation.					
FIELD_STRUCT_DESC: *ABANDONED* 8-inch pipe of an unknown material or purpose through the levee, at low elevation. [Additional Reference(s): DWR Levee Log, 2005].					
FS Date: 5/2/2013					

No Photos

LM Start	6.22	Rating **	M	Issue No.	84
LM End	6.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.174205 °	38.174205 °
				-121.661471 °	-121.661471 °
DWR ID	DWR_NA0002_02_f_2017_84				
Comment Code					
TR : Tree or limb					
Inspector Comment					
There is a dead tree on the landside.					

No Photos

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	6.27	Rating **	U	Issue No.	50
LM End	6.27	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.173922 °	38.173922 °
				-121.662272 °	-121.662272 °
DWR ID	DWR_NA0002_02_s_2013_50				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 2 : SP_2019_NA0002_63_50_20190311_00027.jpg



Looking southwest at dense landscaping on landward slope.

LM Start	6.27	Rating **	U	Issue No.	50 (cont)
LM End	6.27	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP_2019_NA0002_63_50_20190311_00028.jpg



Looking northeast at dense landscaping on landward slope.

LM Start	6.32	Rating **	U	Issue No.	13
LM End	6.32	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.173697 °	38.173697 °
				-121.663082 °	-121.663082 °
DWR ID	DWR_NA0002_02_s_2017_13				
Comment Code					
TR : Tree or limb					
Inspector Comment					
There is a fallen tree on the landside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_13_20190311_00014.jpg



Looking northeast at fallen tree on landward slope.

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	6.38	Rating **	C	Issue No.	131
LM End	6.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.173370 °	38.173370 °
				-121.664045 °	-121.664045 °
DWR ID	DWR_NA0002_02_f_2018_131				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	6.78	Rating **	U	Issue No.	132
LM End	6.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.169330 °	38.168987 °
				-121.669225 °	-121.669443 °
DWR ID	DWR_NA0002_02_f_2018_132				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0002_63_132_20190311_00077.jpg



View looking upstream at thick tree branches on the waterside slope (October 2018).

LM Start	6.83	Rating **	C	Issue No.	139
LM End	6.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.168600 °	38.168600 °
				-121.669542 °	-121.669542 °
DWR ID	DWR_NA0002_02_f_2018_139				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove down tree limb from water side shoulder					

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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	6.94	Rating **	M	Issue No.	140
LM End	6.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.167130 °	38.166878 °
				-121.670180 °	-121.670313 °
DWR ID	DWR_NA0002_02_s_2019_140				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	6.98	Rating **	U	Issue No.	71
LM End	7.04	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.166583 °	38.165794 °
				-121.670684 °	-121.671014 °
DWR ID	DWR_NA0002_02_f_2018_71				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 13.6 L					
Status: Critical					
2017 Field Notes: upgraded to critical. nearly vertical face from levee hinge. trees with large root balls likely to fail.					
Site History: 2011 - Large section of bank slumped off.					
2018: Site should stay critical					

Photo 1 of 1 : SP_2019_NA0002_63_71_20190311_00034.jpg



USACE 2013 Photo #1

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	7.02	Rating **	U	Issue No.	202 (cont)	
LM End	7.02	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.165949 °	38.165949 °	
				-121.670638 °	-121.670638 °	
DWR ID	21916					
Comment Code						
Inspector Comment						
FS_ID:53390 DS_ID:21916 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 07/12/2018 Holes on pipe visible where it daylights on WS, and inside of concrete box on LS. Pipe is opened on WS. Recommend internal inspection to determine pipe integrity through levee. (O.Yakimov-DWR UCIP)10/24/2016 same as previous inspection pipe is opened on the WS. The crossing remains "Urgent" due WS end open. Crossing appears abandoned--need to contact owner to determine status. If crossing is no longer in use owner will need to coordinate with the CVFPB to comply with Title 23. (O. Magana - DWR UCIP)05/02/2013 Pipe open on WS. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 8-inch steel irrigation pipe through levee 8.7 feet below crown. Pipe measures 8-inch inner diameter (ID) and 10-inch outer diameter (OD). A 5-foot by 5-foot concrete distribution box is located on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit 103, June 1954, (RM 13.6)]. FS Date: 7/12/2018 3:23:49 PM						

Photo 3 of 3 : UCIP_SP_2019_53390_76478.jpg



View of levee crown and WS slope at pipe crossing.

LM Start	7.04	Rating **	M	Issue No.	159
LM End	7.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.165755 °	38.164730 °
				-121.670675 °	-121.671105 °
DWR ID	DWR_NA0002_02_f_2018_159				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the ground cover on the landside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_159_20190311_00095.jpg



View looking upstream at ivy on the landside slope (October 2018).

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	7.13	Rating **	M	Issue No.	112
LM End	7.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.164465 °	38.164465 °
				-121.671292 °	-121.671292 °
DWR ID	DWR_NA0002_02_f_2015_112				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0002_63_112_20190311_00068.jpg



Looking south at untrimmed trees on landward slope.

LM Start	7.17	Rating **	C	Issue No.	141
LM End	7.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.163968 °	38.163510 °
				-121.671487 °	-121.671738 °
DWR ID	DWR_NA0002_02_f_2018_141				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	7.26	Rating **	M	Issue No.	104
LM End	7.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.162735 °	38.162735 °
				-121.672224 °	-121.672224 °
DWR ID	DWR_NA0002_02_f_2017_104				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	7.45	Rating **	M	Issue No.	203
LM End	7.45	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.160387 °	38.160387 °
				-121.673972 °	-121.673972 °
DWR ID	21918				
Comment Code					
Inspector Comment					
FS_ID:12814 DS_ID:21918 EP_NO: 11293 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Erosion or sinkhole on WS shoulder. Does not appear to be an immediate threat. FIELD_STRUCT_DESC: 2 of 2: 16-inch irrigation pipe of an unknown material through the levee, 7.1 feet below the crown. Pump and service pole on the landside (LS) slope. 72-inch concrete standpipe at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 11293, 1975 - John Wilcox). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 13.0) (Reclamation District No. 2067) steel pipe listed]. FS Date: 5/2/2013					

LM Start	7.45	Rating **	M	Issue No.	203 (cont)
LM End	7.45	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2019_12814_20821.jpg



Erosion/sinkhole over pipe on WS slope.

Photo 2 of 3 : UCIP_SP_2019_12814_20820.jpg



Pipe on WS slope.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	7.45	Rating **	M	Issue No.	203 (cont)	
LM End	7.45	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.160387 °	38.160387 °	
				-121.673972 °	-121.673972 °	
DWR ID	21918					
Comment Code						
Inspector Comment						
FS_ID:12814 DS_ID:21918 EP_NO: 11293 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Erosion or sinkhole on WS shoulder. Does not appear to be an immediate threat. FIELD_STRUCT_DESC: 2 of 2: 16-inch irrigation pipe of an unknown material through the levee, 7.1 feet below the crown. Pump and service pole on the landside (LS) slope. 72-inch concrete standpipe at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 11293, 1975 - John Wilcox). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 13.0) (Reclamation District No. 2067) steel pipe listed]. FS Date: 5/2/2013						

Photo 3 of 3 : UCIP_SP_2019_12814_20819.jpg



Pipe and pump on LS shoulder.

LM Start	7.49	Rating **	M	Issue No.	204
LM End	7.49	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.159940 °	38.159940 °
				-121.674430 °	-121.674430 °
DWR ID	21920				
Comment Code					
Inspector Comment					
FS_ID:12817 DS_ID:21920 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe should be abandoned properly. FIELD_STRUCT_DESC: 3-inch pipe of an unknown material or purpose through the levee, 7.7 feet below the crown. Inactive service pole on the landside (LS) slope. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/2/2013					

Photo 1 of 2 : UCIP_SP_2019_12817_20825.jpg



3.5-inch galvanized iron pipe on LS slope.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	7.49	Rating **	M	Issue No.	204 (cont)	
LM End	7.49	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.159940 °	38.159940 °	
				-121.674430 °	-121.674430 °	
DWR ID	21920					
Comment Code						
Inspector Comment						
FS_ID:12817 DS_ID:21920 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe should be abandoned properly. FIELD_STRUCT_DESC: 3-inch pipe of an unknown material or purpose through the levee, 7.7 feet below the crown. Inactive service pole on the landside (LS) slope. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/2/2013						

Photo 2 of 2 : UCIP_SP_2019_12817_20824.jpg



3.5-inch galvanized iron pipe on LS slope.

LM Start	7.56	Rating **	U	Issue No.	90
LM End	7.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.159078 °	38.159078 °
				-121.675173 °	-121.675173 °
DWR ID	DWR_NA0002_02_s_2019_90				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Slope instability causing edge of road to crack and slip.					

Photo 1 of 1 : SP_2019_NA0002_63_90_20190429_00204.jpg



View of small slip on the landside shoulder causing the edge of the road to crack and sink (Spring 2019).

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	7.62	Rating **	U	Issue No.	65
LM End	8.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.158491 °	38.151358 °
				-121.675988 °	-121.681980 °
DWR ID	DWR_NA0002_02_s_2019_65				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Maintain the annual vegetation.					

Photo 1 of 1 : SP_2019_NA0002_63_65_20190429_00196.jpg



View looking downstream annual vegetation on the landside slope (Spring 2019).

LM Start	7.67	Rating **	C	Issue No.	143
LM End	7.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.158183 °	38.158183 °
				-121.676788 °	-121.676788 °
DWR ID	DWR_NA0002_02_f_2018_143				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	7.71	Rating **	M	Issue No.	105
LM End	7.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.157841 °	38.157841 °
				-121.677510 °	-121.677510 °
DWR ID	DWR_NA0002_02_s_2019_105				
Comment Code					
TR : Tree or limb					
Inspector Comment					
There are tree limbs on the waterside shoulder.					

Photo 1 of 1 : SP_2019_NA0002_63_105_20190311_00063.jpg



Looking southwest at tree limbs on waterward shoulder.

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	7.93	Rating **	M	Issue No.	205	
LM End	7.93	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.155494 °		38.155494 °
				-121.679988 °		-121.679988 °
DWR ID	21925					
Comment Code						
Inspector Comment						
FS_ID:12869 DS_ID:21925 EP_NO: 2795 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Annular space between PVC pipe and 12-inch steel pipe has not been sealed. FIELD_STRUCT_DESC: 20-inch irrigation pipe of an unknown material through the levee, 3 feet below the crown. 8-inch polyvinyl chloride pipe sleeved through a 12-inch pipe that is sleeved through the 20-inch. Annular space grouted between two metal pipes. Pump and butterfly valve in pump house on the waterside (WS) slope. 36-inch concrete standpipe and filters on the landside (LS) toe. (Permit No. 2795, 1958 - M. B. McKinnon). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/3/2013						

LM Start	7.93	Rating **	M	Issue No.	205 (cont)
LM End	7.93	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2019_12869_20933.jpg



PVC pipe, filters, and concrete standpipe on LS.

Photo 2 of 3 : UCIP_SP_2019_12869_20932.jpg



Pumphouse and pipe on WS slope.

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	7.93	Rating **	M	Issue No.	205 (cont)	
LM End	7.93	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.155494 °		38.155494 °
				-121.679988 °		-121.679988 °
DWR ID	21925					
Comment Code						
Inspector Comment						
FS_ID:12869 DS_ID:21925 EP_NO: 2795 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Annular space between PVC pipe and 12-inch steel pipe has not been sealed. FIELD_STRUCT_DESC: 20-inch irrigation pipe of an unknown material through the levee, 3 feet below the crown. 8-inch polyvinyl chloride pipe sleeved through a 12-inch pipe that is sleeved through the 20-inch. Annular space grouted between two metal pipes. Pump and butterfly valve in pump house on the waterside (WS) slope. 36-inch concrete standpipe and filters on the landside (LS) toe. (Permit No. 2795, 1958 - M. B. McKinnon). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/3/2013						

Photo 3 of 3 : UCIP_SP_2019_12869_20931.jpg



PVC pipe sleeved through 12-inch steel pipe on WS slope.

LM Start	7.93	Rating **	U	Issue No.	146
LM End	7.93	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.155483 °	38.155483 °
				-121.679988 °	-121.679988 °
DWR ID	DWR_NA0002_02_f_2018_146				
Comment Code					
EQ : Equipment					
Inspector Comment					
There is equipment from the bridge rehabilitation at this location.					

Photo 1 of 1 : SP_2019_NA0002_63_146_20190506_00209.jpg



View looking downstream at construction on equipment on the waterside shoulder and crown (Spring 2019).

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	7.94	Rating **	U	Issue No.	64
LM End	7.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.155353 °	38.155353 °
				-121.680090 °	-121.680090 °
DWR ID	DWR_NA0002_02_s_2019_64				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove tree branches from the landside shoulder.					

Photo 1 of 1 : SP_2019_NA0002_63_64_20190429_00195.jpg



View of tree limbs on the landside shoulder (Spring 2019).

LM Start	7.97	Rating **	M	Issue No.	147
LM End	7.97	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.155007 °	38.155007 °
				-121.680353 °	-121.680353 °
DWR ID	DWR_NA0002_02_f_2018_147				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
There is a path down the waterside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_147_20190311_00088.jpg



View of path that is cutting into the waterside slope (October 2018).

LM Start	8.01	Rating **	M	Issue No.	148
LM End	8.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.154410 °	38.154410 °
				-121.680587 °	-121.680587 °
DWR ID	DWR_NA0002_02_f_2018_148				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	8.03	Rating **	C	Issue No.	149
LM End	8.03	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.154177 °	38.154177 °
				-121.680718 °	-121.680718 °
DWR ID	DWR_NA0002_02_f_2018_149				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Chopped up tree on landside slope					

No Photos

LM Start	8.06	Rating **	U	Issue No.	145
LM End	8.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.153760 °	38.152197 °
				-121.680967 °	-121.681713 °
DWR ID	DWR_NA0002_02_f_2018_145				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Maintain vegetation on the landside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_145_20190311_00087.jpg



View looking upstream at vegetation on the landside shoulder and slope (October 2018).

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	8.15	Rating **	M	Issue No.	206	
LM End	8.15	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.152550 °		38.152550 °
				-121.681560 °		-121.681560 °
DWR ID	21926					
Comment Code						
Inspector Comment						
FS_ID:16143 DS_ID:21926 EP_NO: 8661 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dip in crown over alignment of pipe. Good candidate for video inspection. FIELD_STRUCT_DESC: 8-inch irrigation pipe of an unknown material through the levee, 3.7 feet below the crown. Pump in pump house on the landside (LS) slope. Service pole and 30-inch concrete standpipe at the LS toe (Automatic Board Order (ABO) issued as Permit No. 8661, 1972 - Jesse Marks). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 12.2) (Reclamation District No. 2067) steel pipe listed]. FS Date: 5/3/2013						

LM Start	8.15	Rating **	M	Issue No.	206 (cont)
LM End	8.15	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2019_16143_27242.jpg



Pump and butterfly valve in pumphouse on LS toe.

Photo 2 of 3 : UCIP_SP_2019_16143_27241.jpg



Pumphouse with concrete standpipe in background on LS toe.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	8.15	Rating **	M	Issue No.	206 (cont)	
LM End	8.15	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.152550 °	38.152550 °	
				-121.681560 °	-121.681560 °	
DWR ID	21926					
Comment Code						
Inspector Comment						
FS_ID:16143						
DS_ID:21926						
EP_NO: 8661						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dip in crown over alignment of pipe. Good candidate for video inspection.						
FIELD_STRUCT_DESC: 8-inch irrigation pipe of an unknown material through the levee, 3.7 feet below the crown. Pump in pump house on the landside (LS) slope. Service pole and 30-inch concrete standpipe at the LS toe (Automatic Board Order (ABO) issued as Permit No. 8661, 1972 - Jesse Marks). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 12.2) (Reclamation District No. 2067) steel pipe listed].						
FS Date: 5/3/2013						

Photo 3 of 3 : UCIP_SP_2019_16143_27240.jpg



Pipe on WS slope.

LM Start	8.20	Rating **	U	Issue No.	70
LM End	8.42	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.151867 °	38.148711 °
				-121.682201 °	-121.682790 °
DWR ID	DWR_NA0002_02_f_2018_70				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 12.1 L Status: Critical 2017 Field Notes: Continues to worsen and threaten the road. Site History: 2010 - Small inlet area behind a man-built spit. Bank is slumping and could possibly be fixed with maintenance. 2011 - Site continues to worsen. 2015 - Upgraded to CRITICAL. 2016 - Site continues to get worse. 2018: Still threatening roadway. Remain critical					

Photo 1 of 1 : SP_2019_NA0002_63_70_20190311_00033.jpg



USACE 2013 Photo #1

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	8.31	Rating **	M	Issue No.	73
LM End	9.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.150202°	38.138020°
				-121.682138°	-121.686154°
DWR ID	DWR_NA0002_02_s_2019_73				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Maintain annual vegetation all the way down slope along the highway south of eucalyptus trees.					

No Photos

LM Start	8.34	Rating **	M	Issue No.	151
LM End	8.37	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.149773 °	38.149383 °
				-121.682335 °	-121.682392 °
DWR ID	DWR_NA0002_02_f_2018_151				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	8.35	Rating **	U	Issue No.	158
LM End	8.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.149698 °	38.149698 °
				-121.682255 °	-121.682255 °
DWR ID	DWR_NA0002_02_f_2018_158				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the downed tree from landside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_158_20190311_00094.jpg



View of down tree on landside slope (October 2018).

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	8.38	Rating **	U	Issue No.	157
LM End	8.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.149218 °	38.149218 °
				-121.682315 °	-121.682315 °
DWR ID	DWR_NA0002_02_f_2018_157				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the downed tree from the landside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_157_20190311_00093.jpg



View of down tree on landside slope (October 2018).

LM Start	8.45	Rating **	C	Issue No.	156
LM End	8.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.148193 °	38.147415 °
				-121.682527 °	-121.682627 °
DWR ID	DWR_NA0002_02_f_2018_156				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim and Thin trees to allow inspection of landside slope.					

No Photos

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	8.55	Rating **	M	Issue No.	207	
LM End	8.55	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.146784 °	38.146784 °	
				-121.682780 °	-121.682780 °	
DWR ID	21929					
Comment Code						
Inspector Comment						
FS_ID:12886 DS_ID:21929 EP_NO: 842 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to determine disposition of pipe. FIELD_STRUCT_DESC: 12-inch gas pipeline of an unknown material through the levee, 3 feet below the crown. Gas line marker and vent on the waterside (WS) shoulder. (Permit No. 842, 1940 - PG&E). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/3/2013						

Photo 1 of 2 : UCIP_SP_2019_12886_20946.jpg



Gasline marker and vent to right of JP.

LM Start	8.55	Rating **	M	Issue No.	207 (cont)
LM End	8.55	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2019_12886_20945.jpg



Gasline marker and vent to right of JP.

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	8.72	Rating **	C	Issue No.	155
LM End	8.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.144415°	38.144415°
				-121.683290°	-121.683290°
DWR ID	DWR_NA0002_02_f _ 2018_155				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	8.96	Rating **	U	Issue No.	69
LM End	9.31	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.141399°	38.136244°
				-121.685346°	-121.686170°
DWR ID	DWR_NA0002_02_f_2018_69				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 11.2 L					
Status: Critical					
2017 Field Notes: New slump section. Erosion under the road has enlarged.					
Site History: 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. 2015 - Road foundation and cables exposed. Extremely large tree with exposed roots looks likely to fail and take out a significant portion of the levee. 2016 - Site continues to erode.					

Photo 1 of 1 : SP_2019_NA0002_63_69_20190311_00032.jpg



USACE 2013 Photo #1

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	8.97	Rating **	M	Issue No.	28
LM End	10.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.141002 °	38.124229 °
				-121.684934 °	-121.690016 °
DWR ID	DWR_NA0002_02_s_2019_28				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Maintain annual vegetation all the way down the landside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_28_20190429_00202.jpg



View looking upstream at annual vegetation on the bottom half of the landside slope (Spring 2019).

LM Start	9.02	Rating **	M	Issue No.	208	
LM End	9.02	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.140391 °	38.140391 °	
				-121.685266 °	-121.685266 °	
DWR ID	21941					
Comment Code						
Inspector Comment						
FS_ID:12927						
DS_ID:21941						
EP_NO: 16014						
Repair Type: Non-Urgent						
Crossing Status: Not Found						
UCIP Comments: Need to determine disposition of pipe.						
FIELD_STRUCT_DESC: 1 of 2: 12-inch steel irrigation pipe through the						
levee, 2 feet below the crown. Pump on the waterside (WS). Concrete						
riser unit on the landside (LS). (Permit No. 16014, 1993 - Dorothy						
Funez).						
FS Date: 5/3/2013						

No Photos

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	9.02	Rating **	M	Issue No.	209	
LM End	9.02	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.140391 °	38.140391 °	
				-121.685266 °	-121.685266 °	
DWR ID	21963					
Comment Code						
Inspector Comment						
FS_ID:12928						
DS_ID:21963						
EP_NO: 16014						
Repair Type: Non-Urgent						
Crossing Status: Not Found						
UCIP Comments: Need to determine disposition of utility.						
FIELD_STRUCT_DESC: 2 of 2: Electrical conduit of an unknown size						
or material through the levee, 2 feet below the crown. Pump on the						
waterside (WS). Concrete riser unit on the landside (LS). (Permit No.						
16014, 1993 - Dorothy Funez).						
FS Date: 5/3/2013						

No Photos

LM Start	9.06	Rating **	U	Issue No.	152
LM End	9.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.139863 °	38.139862 °
				-121.685617 °	-121.685620 °
DWR ID	DWR_NA0002_02_f_2018_152				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove arundo from the waterside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_152_20190311_00091.jpg



View of arundo on waterside slope (October 2018).

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	9.15	Rating **	U	Issue No.	153
LM End	9.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.138625 °	38.138625 °
				-121.686138 °	-121.686138 °
DWR ID	DWR_NA0002_02_f_2018_153				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove arundo.					

Photo 1 of 1 : SP_2019_NA0002_63_153_20190311_00092.jpg



View of arundo on waterside slope (October 2018).

LM Start	9.19	Rating **	U	Issue No.	72
LM End	9.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.138004 °	38.137545 °
				-121.686157 °	-121.686210 °
DWR ID	DWR_NA0002_02_s_2019_72				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim fig trees on the landside toe.					

Photo 1 of 1 : SP_2019_NA0002_63_72_20190429_00201.jpg



View looking downslope at fig tree on the landside slope (Spring 2019).

LM Start	9.24	Rating **	C	Issue No.	118
LM End	9.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.137189 °	38.136837 °
				-121.686302 °	-121.686273 °
DWR ID	DWR_NA0002_02_f_2017_118				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

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**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	9.27	Rating **	U	Issue No.	67
LM End	10.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.136815 °	38.126291 °
				-121.686161 °	-121.688959 °
DWR ID	DWR_NA0002_02_s_2019_67				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
There is major ground squirrel burrowing activity along this stretch. The LMA is aware of rock piles near the levee toe and says that is the source of the rodents.					

Photo 1 of 2 : SP_2019_NA0002_63_67_20190429_00199.jpg



View looking downstream at animal holes on the landside slope (Spring 2019).

LM Start	9.27	Rating **	U	Issue No.	67 (cont)
LM End	10.03	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2019_NA0002_63_67_20190429_00200.jpg



View looking downstream at animal holes on the landside slope (Spring 2019).

LM Start	9.31	Rating **	C	Issue No.	154
LM End	9.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.136277 °	38.136277 °
				-121.686238 °	-121.686238 °
DWR ID	DWR_NA0002_02_f_2018_154				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove arundo					

No Photos

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	9.36	Rating **	M	Issue No.	210
LM End	9.36	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.135584 °	38.135584 °
				-121.686108 °	-121.686108 °
DWR ID	21931				
Comment Code					
Inspector Comment					
FS_ID:40528 DS_ID:21931 EP_NO: 16011 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Annular space between pipes should be grouted. IF abandoned, these pipes should be abandoned properly. FIELD_STRUCT_DESC: 18-inch corrugated metal conduit pipe through the levee, 4.5 feet below the crown. Inactive 12-inch pipe sleeved through 18-inch. Both ends open. Siphon breaker and air valve in 24-inch corrugated metal riser unit on the landside (LS) shoulder. 9-foot by 5-foot concrete box with slide gate off LS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 10.9) (Reclamation District No. 2067) steel pipe listed]. FS Date: 5/3/2013					

LM Start	9.36	Rating **	M	Issue No.	210 (cont)
LM End	9.36	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2019_40528_21002.jpg



Pipe on WS slope.

Photo 2 of 3 : UCIP_SP_2019_40528_21001.jpg



18-inch CMP with 12-inch irrigation pipe sleeved through it.

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	9.36	Rating **	M	Issue No.	210 (cont)	
LM End	9.36	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.135584 °		38.135584 °
				-121.686108 °		-121.686108 °
DWR ID	21931					
Comment Code						
Inspector Comment						
FS_ID:40528 DS_ID:21931 EP_NO: 16011 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Annular space between pipes should be grouted. IF abandoned, these pipes should be abandoned properly. FIELD_STRUCT_DESC: 18-inch corrugated metal conduit pipe through the levee, 4.5 feet below the crown. Inactive 12-inch pipe sleeved through 18-inch. Both ends open. Siphon breaker and air valve in 24-inch corrugated metal riser unit on the landside (LS) shoulder. 9-foot by 5-foot concrete box with slide gate off LS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 102, April 1959, (RM 10.9) (Reclamation District No. 2067) steel pipe listed]. FS Date: 5/3/2013						

Photo 3 of 3 : UCIP_SP_2019_40528_21000.jpg



Standpipe and concrete box at LS.

LM Start	9.38	Rating **	U	Issue No.	63
LM End	9.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.135251 °	38.135251 °
				-121.686131 °	-121.686131 °
DWR ID	DWR_NA0002_02_s_2019_63				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove arundo.					

Photo 1 of 1 : SP_2019_NA0002_63_63_20190429_00197.jpg



View of arundo on the waterside slope (Spring 2019).

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	9.50	Rating **	M	Issue No.	211
LM End	9.50	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.133512 °	38.133512 °
				-121.685948 °	-121.685948 °
DWR ID	23142				
Comment Code					
Inspector Comment					
FS_ID:16146 DS_ID:23142 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to determine Permit No. for this crossing. FIELD_STRUCT_DESC: Gas line markers on the landside (LS) toe and waterside (WS) shoulder. FS Date: 5/3/2013					

Photo 1 of 2 : UCIP_SP_2019_16146_27251.jpg



Gasline Marker on WS shoulder

LM Start	9.50	Rating **	M	Issue No.	211 (cont)
LM End	9.50	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2019_16146_27250.jpg



Gasline Marker on LS shoulder

* 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	9.71	Rating **	U	Issue No.	16
LM End	9.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.130580 °	38.130580 °
				-121.686730 °	-121.686730 °
DWR ID	DWR_NA0002_02_s_2019_16				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove arundo on the waterside slope.					

Photo 1 of 1 : SP_2019_NA0002_63_16_20190429_00198.jpg



View of arundo on the waterside slope (Spring 2019).

LM Start	9.78	Rating **	M	Issue No.	68
LM End	9.93	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.129722 °	38.127672 °
				-121.687468 °	-121.688646 °
DWR ID	DWR_NA0002_02_f_2018_68				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 10.8 L					
Status: Eroding					
2017 Field Notes: Lots of new woody debris recruitment.					
Site History: 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.					

Photo 1 of 1 : SP_2019_NA0002_63_68_20190311_00031.jpg



USACE 2013 Photo #1

* 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	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2019

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	11.54	04/26/2019 04/26/2019	David Julian

LM Start	10.26	Rating **	U	Issue No.	107
LM End	11.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.123119 °	38.112414 °
				-121.690488 °	-121.697904 °
DWR ID	DWR_NA0002_02_f _ 2014_107				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
There is vegetation on the waterside slope.					

Photo 1 of 2 : SP_2019_NA0002_63_107_20190311_00065.jpg



Looking south at arundo and other vegetation on waterward slope. (Fall 2016)

LM Start	10.26	Rating **	U	Issue No.	107 (cont)
LM End	11.10	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2019_NA0002_63_107_20190311_00066.jpg



Looking south at dense vegetation on waterward slope. (Fall 2015)

LM Start	10.74	Rating **	M	Issue No.	119
LM End	10.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.116906 °	38.116906 °
				-121.694595 °	-121.694595 °
DWR ID	DWR_NA0002_02_f_2017_119				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP_2019_NA0002_63_119_20190311_00073.jpg



Looking northwest at the waterside slope.

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