

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Spring 2018 Levee Inspection Results**

**Reclamation District No. 2062 Stewart**

	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 2018 Levee Inspection Results**

**Reclamation District No. 2062 Stewart**

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	2.64
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/22/2018 - 5/22/2018			
DWR Inspector	Richard Willoughby			
Accompanied By	John Hale RD2062			

**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 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.64	05/22/2018 05/22/2018	Richard Willoughby

LM Start		Rating **	A	Issue No.	2
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD2062_01_f_2013_2				
Comment Code					
Inspector Comment					
The O&M Manual is available at the LMA's office.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD2062_01_s_2013_5				
Comment Code					
Inspector Comment					
Adequate flood fight supplies are available on-site.					

No Photos

LM Start		Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD2062_01_s_2013_8				
Comment Code					
Inspector Comment					
The LMA has a flood fight emergency response plan. LMA has attended DWR flood fighting class.					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.64	05/22/2018 05/22/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	6
LM End	2.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.807505 °	37.787249 °
				-121.328103 °	-121.308947 °
DWR ID	DWR_RD2062_01_s_2018_6				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_RD2062\_309\_6\_20180523\_00011.jpg



Looking downstream at typical view of landward slope.

LM Start	0.00	Rating **	M	Issue No.	7
LM End	2.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.807505 °	37.787247 °
				-121.328103 °	-121.308948 °
DWR ID	DWR_RD2062_01_s_2018_7				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_RD2062\_309\_7\_20180523\_00010.jpg



Looking upstream at typical view of 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 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.64	05/22/2018 05/22/2018	Richard Willoughby

LM Start	1.64	Rating **	M	Issue No.	9
LM End	1.64	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.793521 °	37.793521 °
				-121.315348 °	-121.315348 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:22807  
DS\_ID:19177  
EP\_NO: 12679  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: - All 3 pipes on landside looks new.- Pumps, pump house, and pipes removed from waterside.- Land development activities going on in this area.- Needs to confirm from LMA or DWR Inspector about the crossing.  
FIELD\_STRUCT\_DESC: 1 of 3: 16-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Electrical conduit through the levee. Slant pump in a pump house on the waterside (WS) slope. Siphon breaker on the landside (LS) slope. Service pole and concrete gate valve box at the landside (LS) toe. Installed by USACE in 1961. (Plans to replace rusted portions of two 16-inch irrigation pipes through the levee authorized under Permit No. 16124, 1993 - Reclamation District No. 2062). [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 1.65)].  
FS Date: 10/22/2013

LM Start	<b>1.64</b>	Rating **	M	Issue No.	<b>9 (cont)</b>
LM End	<b>1.64</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_22807\_38905.jpg



WS view: pipes, walkway, and dismantled pump house (right).

Photo 2 of 3 : UCIP\_SP\_2018\_22807\_38904.jpg



WS view: 16-inch pipes on both sides of walkway and 10-inch pipe (on right) away from walkway.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.64	05/22/2018 05/22/2018	Richard Willoughby

LM Start	1.64	Rating **	M	Issue No.	9 (cont)	
LM End	1.64	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.793521 °	37.793521 °	
				-121.315348 °	-121.315348 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22807 DS_ID:19177 EP_NO: 12679 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - All 3 pipes on landside looks new.- Pumps, pump house, and pipes removed from waterside.- Land development activities going on in this area.- Needs to confirm from LMA or DWR Inspector about the crossing. FIELD_STRUCT_DESC: 1 of 3: 16-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Electrical conduit through the levee. Slant pump in a pump house on the waterside (WS) slope. Siphon breaker on the landside (LS) slope. Service pole and concrete gate valve box at the landside (LS) toe. Installed by USACE in 1961. (Plans to replace rusted portions of two 16-inch irrigation pipes through the levee authorized under Permit No. 16124, 1993 - Reclamation District No. 2062). [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 1.65)]. FS Date: 10/22/2013						

Photo 3 of 3 : UCIP\_SP\_2018\_22807\_38903.jpg



WS view: two 16-inch pipes. Pumps were removed. Pumphouse dismantled.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 2062 Stewart

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.64	05/22/2018 05/22/2018	Richard Willoughby

LM Start	1.64	Rating **	M	Issue No.	10 (cont)	
LM End	1.64	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.793510 °	37.793510 °	
				-121.315345 °	-121.315345 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22809 DS_ID:19183 EP_NO: 12679 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - All 3 pipes on landside looks new.- Pumps, pump house, and pipes removed from waterside.- Land development activities going on in this area.- Needs to confirm from LMA or DWR Inspector about the crossing. FIELD_STRUCT_DESC: 2 of 3: 16-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Electrical conduit through the levee. Slant pump in a pump house on the waterside (WS) slope. Siphon breaker on the landside (LS) slope. Service pole and concrete gate valve box at the landside (LS) toe. Installed by USACE in 1961. (Plans to replace rusted portions of two 16-inch irrigation pipes through the levee authorized under Permit No. 16124, 1993 - Reclamation District No. 2062). [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 1.65)]. FS Date: 10/22/2013						

Photo 3 of 3 : UCIP\_SP\_2018\_22809\_38911.jpg



WS view: two 16-inch pipes under walkway; pumps were removed.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.64	05/22/2018 05/22/2018	Richard Willoughby

LM Start	1.64	Rating **	M	Issue No.	11	
LM End	1.64	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.793497 °	37.793497 °	
				-121.315340 °	-121.315340 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22810 DS_ID:19184 EP_NO: 12679 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - All 3 pipes on landside looks new. No pump associated with 8-inch pipe.- Pumps, pump house, and pipes removed from waterside.- Land development activities going on in this area.- Needs to confirm from LMA or DWR Inspector about the crossing. FIELD_STRUCT_DESC: 3 of 3: 8-inch steel irrigation discharge pipe through the levee, 8 feet below the crown. Electrical conduit through the levee. Slant pump in a pump house on the waterside (WS) slope. Siphon breaker on the landside (LS) slope. Service pole and concrete gate valve box at the landside (LS) toe. (Plans to install a 75-horsepower pump on the bank with a 10-inch steel discharge pipe through the levee authorized under Permit No. 12679, 1979 - Reclamation District No. 2062). [Additional Reference(s): DWR Levee Log, 2007]. FS Date: 10/22/2013						

LM Start	<b>1.64</b>	Rating **	M	Issue No.	<b>11 (cont)</b>
LM End	<b>1.64</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_22810\_38918.jpg



WS view: pipes, walkway, and dismantled pump house (right).

Photo 2 of 3 : UCIP\_SP\_2018\_22810\_38917.jpg



WS view: electric conduit and 10-inch pipe (right). Dismantled/removed pipe and pump house (far right).

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

**Unit Cover Sheet**

**Spring 2018 Levee Inspection Results**

**Reclamation District No. 2062 Stewart**

Waterway			Bank	Unit Miles
Unit No. 02 Paradise Cut			Right	3.96
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/22/2018 - 5/22/2018			
DWR Inspector	Richard Willoughby			
Accompanied By	John Hale RD2062			

**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 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/22/2018 05/22/2018	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	13
LM End	1.96	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.777817 °	37.796677 °
				-121.333052 °	-121.359268 °
DWR ID	DWR_RD2062_02_s _ 2018_13				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	10
LM End	3.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.777817 °	37.809297 °
				-121.333052 °	-121.390322 °
DWR ID	DWR_RD2062_02_s _ 2018_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	11
LM End	3.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.777817 °	37.809297 °
				-121.333052 °	-121.390322 °
DWR ID	DWR_RD2062_02_s _ 2018_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/22/2018 05/22/2018	Richard Willoughby

LM Start	0.56	Rating **	M	Issue No.	16	
LM End	0.56	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.784380 °	37.784380 °	
				-121.338985 °	-121.338985 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:23110						
DS_ID:24697						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Found on field with the help of USACE 2012 PI						
Report.Needs proper abandonment.						
FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel irrigation						
discharge pipe through the levee, at an unknown depth. Damaged						
siphon breaker on the waterside (WS) slope. Pump on a concrete sump						
in an irrigation ditch on the landside (LS). Service pole on the LS slope.						
Pump disconnected from the service pole.						
FS Date: 10/23/2013						

LM Start	<b>0.56</b>	Rating **	M	Issue No.	<b>16 (cont)</b>
LM End	<b>0.56</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_23110\_39398.jpg



WS view: power pole (left), siphon breaker (marked- left), and steel pipe (right) on levee slope.

Photo 2 of 3 : UCIP\_SP\_2018\_23110\_39397.jpg



WS view: exposed steel pipe and damaged siphon breaker on levee slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/22/2018 05/22/2018	Richard Willoughby

LM Start	0.56	Rating **	M	Issue No.	16 (cont)	
LM End	0.56	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.784380 °	37.784380 °	
				-121.338985 °	-121.338985 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:23110						
DS_ID:24697						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Found on field with the help of USACE 2012 PI						
Report.Needs proper abandonment.						
FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel irrigation						
discharge pipe through the levee, at an unknown depth. Damaged						
siphon breaker on the waterside (WS) slope. Pump on a concrete sump						
in an irrigation ditch on the landside (LS). Service pole on the LS slope.						
Pump disconnected from the service pole.						
FS Date: 10/23/2013						

Photo 3 of 3 : UCIP\_SP\_2018\_23110\_39396.jpg



WS view: exposed steel pipe on channel bank and also immersed into channel water.

LM Start	0.57	Rating **	U	Issue No.	15
LM End	0.57	Issue Type +	En	Location *	CR
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.784488 °	37.784488 °
				-121.339098 °	-121.339098 °
DWR ID	DWR_RD2062_02_s_2018_15				
Comment Code					
Inspector Comment					
Unauthorized installation.					

Photo 1 of 4 : SP\_2018\_RD2062\_310\_15\_20180523\_00027.jpg



Looking west at pipes on landward slope. (Spring 2018)

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/22/2018 05/22/2018	Richard Willoughby

LM Start	0.57	Rating **	U	Issue No.	15 (cont)	
LM End	0.57	Issue Type +	En	Location *	CR	
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.784488 °	37.784488 °	
				-121.339098 °	-121.339098 °	
DWR ID	DWR_RD2062_02_s_2018_15					
Comment Code						
Inspector Comment						
Unauthorized installation.						

LM Start	<b>0.57</b>	Rating **	U	Issue No.	<b>15 (cont)</b>
LM End	<b>0.57</b>	Issue Type +	En	Location *	CR

Photo 2 of 4 : SP\_2018\_RD2062\_310\_15\_20180523\_00028.jpg



Looking northeast at pipes on waterward slope. (Spring 2018)

Photo 3 of 4 : SP\_2018\_RD2062\_310\_15\_20180523\_00026.jpg



Looking east at pipes on waterward slope. (Spring 2018)

LM Start	<b>0.57</b>	Rating **	U	Issue No.	<b>15 (cont)</b>
LM End	<b>0.57</b>	Issue Type +	En	Location *	CR

Photo 4 of 4 : SP\_2018\_RD2062\_310\_15\_20180523\_00029.jpg



Looking south at ramp on levee crown. (Spring 2018)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> 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 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/22/2018 05/22/2018	Richard Willoughby

LM Start	0.75	Rating **	M	Issue No.	17	
LM End	0.75	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.786130 °	37.786130 °	
				-121.341564 °	-121.341564 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:23181 DS_ID:19192 EP_NO: 12427 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - no siphon breaker found- levee toe erosion under walkway on waterside.- erosion around concrete standpipe on landside- may be base of the standpipe was leaking. FIELD_STRUCT_DESC: 18-inch irrigation discharge pipe of an unknown material through the levee, 4.4 feet below the crown. Pump house on the waterside (WS) slope. Metal walkway from the pump house to the crown. Service pole on the WS. Flap gate, siphon breaker, and concrete distribution box on the landside (LS) slope. (Emergency plans to replace an existing 18-inch discharge pipe through the levee authorized under Permit No. 12427, 1978 - Reclamation District No. 2062). [Additional Reference(s): DWR Levee Log, 2007, 16-inch pipe referenced. USACE San Joaquin O&M Manual 9, April 1964, (HLM 0.76)]. FS Date: 10/23/2013						

LM Start	<b>0.75</b>	Rating **	M	Issue No.	<b>17 (cont)</b>
LM End	<b>0.75</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_23181\_39792.jpg



WS view: pipe, walkway, service pole, and pumphouse on levee slope.

Photo 2 of 3 : UCIP\_SP\_2018\_23181\_39791.jpg



WS view: leaky slant pump in pumphouse on levee slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/22/2018 05/22/2018	Richard Willoughby

LM Start	0.75	Rating **	M	Issue No.	17 (cont)	
LM End	0.75	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.786130°	37.786130°	
				-121.341564°	-121.341564°	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:23181 DS_ID:19192 EP_NO: 12427 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - no siphon breaker found- levee toe erosion under walkway on waterside.- erosion around concrete standpipe on landside- may be base of the standpipe was leaking. FIELD_STRUCT_DESC: 18-inch irrigation discharge pipe of an unknown material through the levee, 4.4 feet below the crown. Pump house on the waterside (WS) slope. Metal walkway from the pump house to the crown. Service pole on the WS. Flap gate, siphon breaker, and concrete distribution box on the landside (LS) slope. (Emergency plans to replace an existing 18-inch discharge pipe through the levee authorized under Permit No. 12427, 1978 - Reclamation District No. 2062). [Additional Reference(s): DWR Levee Log, 2007, 16-inch pipe referenced. USACE San Joaquin O&M Manual 9, April 1964, (HLM 0.76)]. FS Date: 10/23/2013						

Photo 3 of 3 : UCIP\_SP\_2018\_23181\_39790.jpg



WS view: oil leakage from slant pump. Pipe under pump house.

LM Start	1.37	Rating **	U	Issue No.	14
LM End	1.37	Issue Type +	Ma	Location *	CR
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.791772 °	37.791772 °
				-121.350415 °	-121.350415 °
DWR ID	DWR_RD2062_02_s_2018_14				
Comment Code					
Inspector Comment					
Owner installed pipe across levee crown.					

Photo 1 of 4 : SP\_2018\_RD2062\_310\_14\_20180523\_00031.jpg



Looking east at pumphouse and pipe on waterward slope. (Spring 2018)

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/22/2018 05/22/2018	Richard Willoughby

LM Start	1.37	Rating **	U	Issue No.	14 (cont)	
LM End	1.37	Issue Type +	Ma	Location *	CR	
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.791772 °	37.791772 °	
				-121.350415 °	-121.350415 °	
DWR ID	DWR_RD2062_02_s_2018_14					
Comment Code						
Inspector Comment						
Owner installed pipe across levee crown.						

LM Start	<b>1.37</b>	Rating **	U	Issue No.	<b>14 (cont)</b>
LM End	<b>1.37</b>	Issue Type +	Ma	Location *	CR

Photo 2 of 4 : SP\_2018\_RD2062\_310\_14\_20180523\_00032.jpg



Looking south at installation (pipe) on landward slope. (Spring 2018)

Photo 3 of 4 : SP\_2018\_RD2062\_310\_14\_20180523\_00030.jpg



Looking west at installation (pipe) on landward slope. (Spring 2018)

LM Start	<b>1.37</b>	Rating **	U	Issue No.	<b>14 (cont)</b>
LM End	<b>1.37</b>	Issue Type +	Ma	Location *	CR

Photo 4 of 4 : SP\_2018\_RD2062\_310\_14\_20180523\_00033.jpg



Looking south at installation (pipe) on waterward slope. (Spring 2018)

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/22/2018 05/22/2018	Richard Willoughby

LM Start	1.37	Rating **	M	Issue No.	18
LM End	1.37	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.791821 °	37.791821 °
				-121.350448 °	-121.350448 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51468  
DS\_ID:19193  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 04/05/2017: Pipe has been plugged as a flood fight measure and is likely to be replaced under a permit. MBK (Michael Moncrief) is working on the permit. Photo and update courtesy of Max Khashchuk as part of his 2017 Spring Inspection. (K. Fazel - UCIP)10/22/2013:- pumphouse on concrete sump in the channel.- erosion under walkway on waterside. (P. Amatya - DWR)  
FIELD\_STRUCT\_DESC: 20-inch steel irrigation discharge pipe through the levee, 8 feet below the crown. Pump house on the waterside (WS) slope. Metal walkway from the pump house to the crown. Flap gate, siphon breaker, and concrete distribution box on the landside (LS) slope. [Additional Reference(s): DWR Levee Log, 2007, 18-inch pipe referenced. USACE San Joaquin O&M Manual 9, April 1964, (HLM 1.40), 18-inch pipe referenced].  
FS Date: 4/6/2017

LM Start	<b>1.37</b>	Rating **	M	Issue No.	<b>18 (cont)</b>
LM End	<b>1.37</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_51468\_39195.jpg



WS view: pipe, walkway, and pumphouse on levee berm. Service pole on waterside.

Photo 2 of 3 : UCIP\_SP\_2018\_51468\_39194.jpg



WS view: leaky pump and control box in pumphouse.

* 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 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/22/2018 05/22/2018	Richard Willoughby

LM Start	1.37	Rating **	M	Issue No.	18 (cont)
LM End	1.37	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.791821 °	37.791821 °
				-121.350448 °	-121.350448 °
DWR ID					

Comment Code

Inspector Comment

FS\_ID:51468  
DS\_ID:19193  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 04/05/2017: Pipe has been plugged as a flood fight measure and is likely to be replaced under a permit. MBK (Michael Moncrief) is working on the permit. Photo and update courtesy of Max Khashchuk as part of his 2017 Spring Inspection. (K. Fazel - UCIP) 10/22/2013:- pumphouse on concrete sump in the channel.- erosion under walkway on waterside. (P. Amatya - DWR)  
FIELD\_STRUCT\_DESC: 20-inch steel irrigation discharge pipe through the levee, 8 feet below the crown. Pump house on the waterside (WS) slope. Metal walkway from the pump house to the crown. Flap gate, siphon breaker, and concrete distribution box on the landside (LS) slope. [Additional Reference(s): DWR Levee Log, 2007, 18-inch pipe referenced. USACE San Joaquin O&M Manual 9, April 1964, (HLM 1.40), 18-inch pipe referenced].  
FS Date: 4/6/2017

Photo 3 of 3 : UCIP\_SP\_2018\_51468\_39193.jpg



WS view: exposed steel pipe under walkway. Soil erosion under walkway. This may be due to leaky pipe joint.

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

## Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/22/2018 05/22/2018	Richard Willoughby

LM Start	1.64	Rating **	U	Issue No.	19	
LM End	1.64	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.794009 °	37.794009 °	
				-121.354417 °	-121.354417 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50452 DS_ID:19194 EP_NO: 4305 Repair Type: Urgent Crossing Status: Found UCIP Comments: 08/31/2016: Heavy sloughing and sink hole remains at the WS slope in alignment with pipe. Though sloughing is not affecting levee prism, it is still an indication of a pipe integrity problem. Oil leak at the pump but does not appear to impact the levee. (K. Fazel - UCIP)10/22/2013:- missing roof in pump house.- no protection for siphon breaker- huge erosion under pumphouse and levee slope on waterside. (P. Amatya - DWR) FIELD_STRUCT_DESC: 1 of 2: 18-inch steel irrigation discharge pipe through the levee, 4.8 feet below the crown. Pump house on the waterside (WS) slope. Siphon breaker on the landside (LS) shoulder. Service pole on the LS shoulder. Concrete distribution box at the LS toe. (Plans for installation of two irrigation pumps on the bank to replace an old centrifugal pumping plant at the same location authorized under Permit No. 4305, 1963 - Reclamation District No. 2062) [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 1.67)]. FS Date: 8/31/2016						

LM Start	<b>1.64</b>	Rating **	U	Issue No.	<b>19 (cont)</b>
LM End	<b>1.64</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_50452\_39187.jpg



WS view: pipes, walkway, and pumphouse with missing roof (right).

Photo 2 of 3 : UCIP\_SP\_2018\_50452\_39186.jpg



WS view: walkway to pumphouse. Walkway in poor condition.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/22/2018 05/22/2018	Richard Willoughby

LM Start	1.64	Rating **	U	Issue No.	19 (cont)	
LM End	1.64	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.794009 °		37.794009 °
				-121.354417 °		-121.354417 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50452 DS_ID:19194 EP_NO: 4305 Repair Type: Urgent Crossing Status: Found UCIP Comments: 08/31/2016: Heavy sloughing and sink hole remains at the WS slope in alignment with pipe. Though sloughing is not affecting levee prism, it is still an indication of a pipe integrity problem. Oil leak at the pump but does not appear to impact the levee. (K. Fazel - UCIP)10/22/2013:- missing roof in pump house.- no protection for siphon breaker- huge erosion under pumphouse and levee slope on waterside. (P. Amatya - DWR) FIELD_STRUCT_DESC: 1 of 2: 18-inch steel irrigation discharge pipe through the levee, 4.8 feet below the crown. Pump house on the waterside (WS) slope. Siphon breaker on the landside (LS) shoulder. Service pole on the LS shoulder. Concrete distribution box at the LS toe. (Plans for installation of two irrigation pumps on the bank to replace an old centrifugal pumping plant at the same location authorized under Permit No. 4305, 1963 - Reclamation District No. 2062) [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 1.67)]. FS Date: 8/31/2016						

Photo 3 of 3 : UCIP\_SP\_2018\_50452\_39185.jpg



WS view: two leaky slant pumps in pumphouse with missing roof.

* 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 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/22/2018 05/22/2018	Richard Willoughby

LM Start	1.64	Rating **	U	Issue No.	20
LM End	1.64	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.794014 °	37.794014 °
				-121.354434 °	-121.354434 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50454					
DS_ID:19197					
EP_NO: 4305					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: 08/31/2016: Heavy sloughing and sink hole remains at the WS slope in alignment with pipes. Though sloughing is not affecting levee prism, it is still an indication of a pipe integrity problem. Oil leak at the pump but does not appear to impact levee. (K. Fazel - UCIP)10/22/2013:- missing roof in pump house.- no protection for siphon breaker- huge erosion under pumphouse and levee slope on waterside. (P. Amatya - DWR)					
FIELD_STRUCT_DESC: 2 of 2: 18-inch steel irrigation discharge pipe through the levee, 4.8 feet below the crown. Pump house on the waterside (WS) slope. Siphon breaker on the landside (LS) shoulder. Service pole on the LS shoulder. Concrete distribution box at the LS toe. (Plans for installation of two irrigation pumps on the bank to replace an old centrifugal pumping plant at the same location authorized under Permit No. 4305, 1963 - Reclamation District No. 2062) [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 1.67)].					
FS Date: 8/31/2016					

LM Start	<b>1.64</b>	Rating **	U	Issue No.	<b>20 (cont)</b>
LM End	<b>1.64</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_50454\_39176.jpg



WS view: pipes, walkway, and pumphouse with missing roof (right).

Photo 2 of 3 : UCIP\_SP\_2018\_50454\_39175.jpg



WS view: walkway in poor condition, to pumphouse.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/22/2018 05/22/2018	Richard Willoughby

LM Start	1.64	Rating **	U	Issue No.	20 (cont)	
LM End	1.64	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.794014 °		37.794014 °
				-121.354434 °		-121.354434 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50454						
DS_ID:19197						
EP_NO: 4305						
Repair Type: Urgent						
Crossing Status: Found						
UCIP Comments: 08/31/2016: Heavy sloughing and sink hole remains at the WS slope in alignment with pipes. Though sloughing is not affecting levee prism, it is still an indication of a pipe integrity problem. Oil leak at the pump but does not appear to impact levee. (K. Fazel - UCIP)10/22/2013:- missing roof in pump house.- no protection for siphon breaker- huge erosion under pumphouse and levee slope on waterside. (P. Amatya - DWR)						
FIELD_STRUCT_DESC: 2 of 2: 18-inch steel irrigation discharge pipe through the levee, 4.8 feet below the crown. Pump house on the waterside (WS) slope. Siphon breaker on the landside (LS) shoulder. Service pole on the LS shoulder. Concrete distribution box at the LS toe. (Plans for installation of two irrigation pumps on the bank to replace an old centrifugal pumping plant at the same location authorized under Permit No. 4305, 1963 - Reclamation District No. 2062) [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 1.67)].						
FS Date: 8/31/2016						

Photo 3 of 3 : UCIP\_SP\_2018\_50454\_39174.jpg



WS view: two leaky slant pumps in pumphouse with missing roof.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/22/2018 05/22/2018	Richard Willoughby

LM Start	3.24	Rating **	M	Issue No.	21
LM End	3.24	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.804770 °	37.804770 °
				-121.379679 °	-121.379679 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:23304 DS_ID:19199 EP_NO: 11524 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - waterside pipe immersed into channel water.- most of the pipe on landside exposed and siphon breaker on waterside not protected. FIELD_STRUCT_DESC: 1 of 3: 24-inch coated steel drainage discharge pipe through the levee, 2 feet below the crown. Siphon breaker on the waterside (WS) slope. Pump on a steel platform in a drainage ditch, 350 feet from the levee centerline off the landward berm. (Plans to install a drainage pump and 24-inch discharge line through the levee at existing main drainage pump authorized under Permit No. 11524, 1976 - Reclamation District No. 2062). [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 3.29)]. FS Date: 10/22/2013					

LM Start	<b>3.24</b>	Rating **	M	Issue No.	<b>21 (cont)</b>
LM End	<b>3.24</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_23304\_40147.jpg



WS view: 24-inch steel pipe (left) with siphon breaker on levee slope. 18-inch pipe on right.

Photo 2 of 3 : UCIP\_SP\_2018\_23304\_40146.jpg



WS view: leaky siphon breaker on levee slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/22/2018 05/22/2018	Richard Willoughby

LM Start	3.24	Rating **	M	Issue No.	21 (cont)	
LM End	3.24	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.804770°	37.804770°	
				-121.379679°	-121.379679°	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:23304 DS_ID:19199 EP_NO: 11524 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - waterside pipe immersed into channel water.- most of the pipe on landside exposed and siphon breaker on waterside not protected. FIELD_STRUCT_DESC: 1 of 3: 24-inch coated steel drainage discharge pipe through the levee, 2 feet below the crown. Siphon breaker on the waterside (WS) slope. Pump on a steel platform in a drainage ditch, 350 feet from the levee centerline off the landward berm. (Plans to install a drainage pump and 24-inch discharge line through the levee at existing main drainage pump authorized under Permit No. 11524, 1976 - Reclamation District No. 2062). [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 3.29)]. FS Date: 10/22/2013						

Photo 3 of 3 : UCIP\_SP\_2018\_23304\_40148.jpg



LS view: overview of pipes on levee berm and pump platform (marked - right) off the berm 350 ft from the levee.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/22/2018 05/22/2018	Richard Willoughby

LM Start	3.24	Rating **	M	Issue No.	22
LM End	3.24	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.804777 °	37.804777 °
				-121.379704 °	-121.379704 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:23023  
DS\_ID:19198  
EP\_NO: 11524  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: - 18-inch pipe bifurcated near the pump and two gate valves installed.- waterside pipe immersed into channel water.- most of the pipe on landside exposed and siphon breaker on waterside not protected.  
FIELD\_STRUCT\_DESC: 2 of 3: 18-inch coated steel drainage discharge pipe through the levee, 4 feet below the crown. Siphon breaker on the waterside (WS) slope. Pump on a steel platform in a drainage ditch, 350 feet from the levee centerline off the landward berm. (Plans to install a drainage pump and 24-inch discharge line through the levee at existing main drainage pump authorized under Permit No. 11524, 1976 - Reclamation District No. 2062). [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 3.29), 16-inch pipe referenced].  
FS Date: 10/22/2013

LM Start	<b>3.24</b>	Rating **	M	Issue No.	<b>22 (cont)</b>
LM End	<b>3.24</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_23023\_39082.jpg



WS view: exposed 18-inch pipe with siphon breaker on levee slope.  
Exposed 24-inch pipe (left).

Photo 2 of 3 : UCIP\_SP\_2018\_23023\_39081.jpg



WS view: closer view of 18-inch pipe with siphon breaker on levee 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/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

# Reclamation District No. 2062 Stewart

LS view: overview of exposed pipes and pump station (marked- right)  
350 ft from levee center.

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/22/2018 05/22/2018	Richard Willoughby

LM Start	3.24	Rating **	M	Issue No.	23
LM End	3.24	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.804787 °	37.804787 °
				-121.379734 °	-121.379734 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:23305  
DS\_ID:19195  
EP\_NO: 11524  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: - no associated pump or any other appurtenances found on landside.- looks abandoned pipe. Needs proper abandonment.  
FIELD\_STRUCT\_DESC: 3 of 3: 24-inch coated steel drainage discharge pipe through the levee, 2 feet below the crown. Siphon breaker on the waterside (WS) slope. Pump on a steel platform in a drainage ditch, 350 feet from the levee centerline off the landward berm. (Plans to install a drainage pump and 24-inch discharge line through the levee at existing main drainage pump authorized under Permit No. 11524, 1976 - Reclamation District No. 2062). [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 3.29)].  
FS Date: 10/22/2013

LM Start	<b>3.24</b>	Rating **	M	Issue No.	<b>23 (cont)</b>
LM End	<b>3.24</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_23305\_40153.jpg



WS view: siphon breaker in steel pipe riser on levee slope.

Photo 2 of 3 : UCIP\_SP\_2018\_23305\_40152.jpg



WS view: closer view of siphon breaker in steel pipe riser on levee 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/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 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/22/2018 05/22/2018	Richard Willoughby

LM Start	3.24	Rating **	M	Issue No.	23 (cont)	
LM End	3.24	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.804787 °	37.804787 °	
				-121.379734 °	-121.379734 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:23305 DS_ID:19195 EP_NO: 11524 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - no associated pump or any other appurtenances found on landside.- looks abandoned pipe. Needs proper abandonment. FIELD_STRUCT_DESC: 3 of 3: 24-inch coated steel drainage discharge pipe through the levee, 2 feet below the crown. Siphon breaker on the waterside (WS) slope. Pump on a steel platform in a drainage ditch, 350 feet from the levee centerline off the landward berm. (Plans to install a drainage pump and 24-inch discharge line through the levee at existing main drainage pump authorized under Permit No. 11524, 1976 - Reclamation District No. 2062). [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 3.29)]. FS Date: 10/22/2013						

Photo 3 of 3 : UCIP\_SP\_2018\_23305\_40151.jpg



WS view: exposed pipe and steel pipe riser on levee slope.

LM Start	3.64	Rating **	M	Issue No.	8
LM End	3.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.806347 °	37.806347 °
				-121.386692 °	-121.386692 °
DWR ID	DWR_RD2062_02_s_2014_8				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_RD2062\_310\_8\_20180503\_00001.jpg



View of the erosion from surface runoff on the waterside levee slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/22/2018 05/22/2018	Richard Willoughby

LM Start	3.95	Rating **	M	Issue No.	12
LM End	3.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.809160 °	37.809160 °
				-121.390427 °	-121.390427 °
DWR ID	DWR_RD2062_02_s_2018_12				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree on landward slope.					

Photo 1 of 1 : SP\_2018\_RD2062\_310\_12\_20180523\_00034.jpg



Looking at broken tree branch on landward slope. (Spring 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**

**Unit Cover Sheet**

**Spring 2018 Levee Inspection Results**

**Reclamation District No. 2062 Stewart**

Waterway			Bank	Unit Miles
Unit No. 03 Old River			Left	5.55
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/22/2018 - 5/22/2018			
DWR Inspector	Richard Willoughby			
Accompanied By	John Hale RD2062			

**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 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	-0.03	Rating **	M	Issue No.	1
LM End	0.07	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.809514 °	37.809514 °
				-121.390125 °	-121.390125 °
DWR ID	RD2062U03RM29.94				
Comment Code					
Inspector Comment					
09/13/2017: The erosion site has expanded significantly along the river bank.					
11/09/2016: No significant change observed.					
06/25/2015: The erosion is below a large oak tree. Vegetation is visible around the erosion site. [2017 Site ID:RD2062U03RM29.94]					

LM Start	<b>-0.03</b>	Rating **	M	Issue No.	<b>1 (cont)</b>
LM End	<b>0.07</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 4 : SP\_2018\_RD2062\_311\_1\_20180503\_00001.jpg



Front view of the erosion site. Note the large tree above the erosion.

Photo 2 of 4 : SP\_2018\_RD2062\_311\_1\_20180503\_00002.jpg



Close view of the erosion.

LM Start	<b>-0.03</b>	Rating **	M	Issue No.	<b>1 (cont)</b>
LM End	<b>0.07</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : SP\_2018\_RD2062\_311\_1\_20180503\_00003.jpg



Close view of the erosion.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	-0.03	Rating **	M	Issue No.	1 (cont)	
LM End	0.07	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.809514 °		37.809514 °
				-121.390125 °		-121.390125 °
DWR ID	RD2062U03RM29.94					
Comment Code						
Inspector Comment						
09/13/2017: The erosion site has expanded significantly along the river bank.						
11/09/2016: No significant change observed.						
06/25/2015: The erosion is below a large oak tree. Vegetation is visible around the erosion site. [2017 Site ID:RD2062U03RM29.94]						

Photo 4 of 4 : SP\_2018\_RD2062\_311\_1\_20180503\_00004.jpg



Close view of the erosion.

LM Start	0.00	Rating **	M	Issue No.	15
LM End	5.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.809297 °	37.807505 °
				-121.390322 °	-121.328103 °
DWR ID	DWR_RD2062_03_s _ 2018_15				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	16
LM End	5.55	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.809297 °	37.807505 °
				-121.390322 °	-121.328103 °
DWR ID	DWR_RD2062_03_s _ 2018_16				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
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 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	0.09	Rating **	U	Issue No.	2
LM End	0.11	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.809932 °	37.809932 °
				-121.388788 °	-121.388788 °
DWR ID	RD2062U03RM30.02				
Comment Code					
Inspector Comment					
09/13/2017: The erosion site has expanded significantly with the erosion length increased to approximately 90 ft from 40 ft. Signs of animal activities have been found at the site.					
07/25/2016: No significant change observed.					
06/25/2015: No significant change observed.					
07/02/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The site has been visited by boat survey. No significant change observed					
08/23/2011: Hard to view the erosion because of the dense vegetation and trees on site. The site is under the bush, close to the tree. [2017 Site ID:RD2062U03RM30.02]					

LM Start	<b>0.09</b>	Rating **	U	Issue No.	<b>2 (cont)</b>
LM End	<b>0.11</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 4 : SP\_2018\_RD2062\_311\_2\_20180503\_00005.jpg



Front view of the site.

Photo 2 of 4 : SP\_2018\_RD2062\_311\_2\_20180503\_00006.jpg



Close view of the erosion. Note signs of animal activities at the site..

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	0.09	Rating **	U	Issue No.	2 (cont)	
LM End	0.11	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.809932 °	37.809932 °	
				-121.388788 °	-121.388788 °	
DWR ID	RD2062U03RM30.02					
Comment Code						
Inspector Comment						
09/13/2017: The erosion site has expanded significantly with the erosion length increased to approximately 90 ft from 40 ft. Signs of animal activities have been found at the site.						
07/25/2016: No significant change observed.						
06/25/2015: No significant change observed.						
07/02/2014: No significant change observed.						
08/13/2013: No significant change observed.						
08/07/2012: The site has been visited by boat survey. No significant change observed						
08/23/2011: Hard to view the erosion because of the dense vegetation and trees on site. The site is under the bush, close to the tree. [2017 Site ID:RD2062U03RM30.02]						

LM Start	<b>0.09</b>	Rating **	U	Issue No.	<b>2 (cont)</b>
LM End	<b>0.11</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : SP\_2018\_RD2062\_311\_2\_20180503\_00007.jpg



Close view of the erosion.

Photo 4 of 4 : SP\_2018\_RD2062\_311\_2\_20180503\_00008.jpg



Close view of the erosion.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	0.17	Rating **	M	Issue No.	3
LM End	0.17	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.810268 °	37.810268 °
				-121.387495 °	-121.387495 °
DWR ID	DWR_RD2062_03_s_2018_3				
Comment Code					
Inspector Comment					
09/13/2017: No significant change observed.					
07/25/2016: No significant change observed.					
06/25/2015: No significant change observed.					
07/02/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The site has been visited by boat survey. No significant change observed					
08/23/2011: The protection at the levee toe has been washed away.					
[2017 Site ID:RD2062U03RM30.1]					

LM Start	<b>0.17</b>	Rating **	M	Issue No.	<b>3 (cont)</b>
LM End	<b>0.17</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP\_2018\_RD2062\_311\_3\_20180503\_00009.jpg



Direct view of the site.

Photo 2 of 3 : SP\_2018\_RD2062\_311\_3\_20180503\_00010.jpg



Close view of the erosion.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	0.17	Rating **	M	Issue No.	3 (cont)	
LM End	0.17	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.810268 °		37.810268 °
				-121.387495 °		-121.387495 °
DWR ID	DWR_RD2062_03_s_2018_3					
Comment Code						
Inspector Comment						
09/13/2017: No significant change observed.						
07/25/2016: No significant change observed.						
06/25/2015: No significant change observed.						
07/02/2014: No significant change observed.						
08/13/2013: No significant change observed.						
08/07/2012: The site has been visited by boat survey. No significant change observed						
08/23/2011: The protection at the levee toe has been washed away.						
[2017 Site ID:RD2062U03RM30.1]						

Photo 3 of 3 : SP\_2018\_RD2062\_311\_3\_20180503\_00011.jpg



Close view of the erosion.

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

## Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	0.22	Rating **	U	Issue No.	4
LM End	0.31	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.810609 °	37.810609 °
				-121.385879 °	-121.385879 °
DWR ID	RD2062U03RM30.19				
Comment Code					
Inspector Comment					
09/13/2017: The erosion has developed vertically. More vegetaion at the site.					
07/25/2106: No significant change observed. More vegetation observed at the site.					
06/25/2015: No significant change observed.					
07/02/2014: No significant change observed.					
08/13/2013: A new pocket erosion at the upper levee slope has been found directly above a large tree. The erosion might have been caused by internal pipe leakage or surface runoff.					
08/07/2012: The site has been visited by boat survey. No significant change observed					
08/23/2011: No significant change observed on site. Dense vegetation is visible along the water line.					
09/07/2010: No significant change observed on site. Much of the upper slope was recently cleared of vegetation by spraying. 4- to 6-foot vertical scarp and pocket erosions are lined along a span of 475 feet. In some sections, the vertical scarp encroaches into the levee prism. There is a lack of berm along this reach, exposing the levee slope to high flow velocities during normal and flood events.					
08/06/2010: Recommended as local maintenance issue, per CLRO.					
03/09/2010: As discussed with Michael Moncrief of MBK Engineers, the site will be 'addressed' later this year.					
09/29/2009: No major change observed since last visit; pocket erosion and a vertical scarp forming; this site was combined with Site RM30.13 and 30.02 with a combined total erosion length of 475 feet; recommended as annual assessment and monitoring of the site, per CLRO CES Evaluation 2008 Report; previously rated "M".					
11/05/2008: Top of vertical scarp has rip rap that appears to be sliding; rodent holes; existing toe rip rap. [2017 Site ID:RD2062U03RM30.19]					

Photo 1 of 4 : SP\_2018\_RD2062\_311\_4\_20180503\_00012.jpg



View of the pocket erosion.

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

## Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	0.22	Rating **	U	Issue No.	4 (cont)	
LM End	0.31	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.810609 °	37.810609 °	
				-121.385879 °	-121.385879 °	
DWR ID	RD2062U03RM30.19					
Comment Code						
Inspector Comment						
09/13/2017: The erosion has developed vertically. More vegetaiaon at the site.						
07/25/2106: No significant change observed. More vegetation observed at the site.						
06/25/2015: No significant change observed.						
07/02/2014: No significant change observed.						
08/13/2013: A new pocket erosion at the upper levee slope has been found directly above a large tree. The erosion might have been caused by internal pipe leakage or surface runoff.						
08/07/2012: The site has been visited by boat survey. No significant change observed						
08/23/2011: No significant change observed on site. Dense vegetation is visible along the water line.						
09/07/2010: No significant change observed on site. Much of the upper slope was recently cleared of vegetation by spraying. 4- to 6-foot vertical scarp and pocket erosions are lined along a span of 475 feet. In some sections, the vertical scarp encroaches into the levee prism. There is a lack of berm along this reach, exposing the levee slope to high flow velocities during normal and flood events.						
08/06/2010: Recommended as local maintenance issue, per CLRO.						
03/09/2010: As discussed with Michael Moncrief of MBK Engineers, the site will be 'addressed' later this year.						
09/29/2009: No major change observed since last visit; pocket erosion and a vertical scarp forming; this site was combined with Site RM30.13 and 30.02 with a combined total erosion length of 475 feet; recommended as annual assessment and monitoring of the site, per CLRO CES Evaluation 2008 Report; previously rated "M".						
11/05/2008: Top of vertical scarp has rip rap that appears to be sliding; rodent holes; existing toe rip rap. [2017 Site ID:RD2062U03RM30.19]						

Photo 2 of 4 : SP\_2018\_RD2062\_311\_4\_20180503\_00013.jpg



Close view of the pocket erosion. Note the dense vegetation at the site.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	0.22	Rating **	U	Issue No.	4 (cont)	
LM End	0.31	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.810609 °	37.810609 °	
				-121.385879 °	-121.385879 °	
DWR ID	RD2062U03RM30.19					
Comment Code						
Inspector Comment						
09/13/2017: The erosion has developed vertically. More vegetaion at the site.						
07/25/2106: No significant change observed. More vegetation observed at the site.						
06/25/2015: No significant change observed.						
07/02/2014: No significant change observed.						
08/13/2013: A new pocket erosion at the upper levee slope has been found directly above a large tree. The erosion might have been caused by internal pipe leakage or surface runoff.						
08/07/2012: The site has been visited by boat survey. No significant change observed						
08/23/2011: No significant change observed on site. Dense vegetation is visible along the water line.						
09/07/2010: No significant change observed on site. Much of the upper slope was recently cleared of vegetation by spraying. 4- to 6-foot vertical scarp and pocket erosions are lined along a span of 475 feet. In some sections, the vertical scarp encroaches into the levee prism. There is a lack of berm along this reach, exposing the levee slope to high flow velocities during normal and flood events.						
08/06/2010: Recommended as local maintenance issue, per CLRO.						
03/09/2010: As discussed with Michael Moncrief of MBK Engineers, the site will be 'addressed' later this year.						
09/29/2009: No major change observed since last visit; pocket erosion and a vertical scarp forming; this site was combined with Site RM30.13 and 30.02 with a combined total erosion length of 475 feet; recommended as annual assessment and monitoring of the site, per CLRO CES Evaluation 2008 Report; previously rated "M".						
11/05/2008: Top of vertical scarp has rip rap that appears to be sliding; rodent holes; existing toe rip rap. [2017 Site ID:RD2062U03RM30.19]						

Photo 3 of 4 : SP\_2018\_RD2062\_311\_4\_20180503\_00014.jpg



Front view of the site with dense vegetation.

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

## Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	0.22	Rating **	U	Issue No.	4 (cont)
LM End	0.31	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.810609 °	37.810609 °
				-121.385879 °	-121.385879 °
DWR ID	RD2062U03RM30.19				

**Comment Code**

**Inspector Comment**

09/13/2017: The erosion has developed vertically. More vegetation at the site.  
 07/25/2016: No significant change observed. More vegetation observed at the site.  
 06/25/2015: No significant change observed.  
 07/02/2014: No significant change observed.  
 08/13/2013: A new pocket erosion at the upper levee slope has been found directly above a large tree. The erosion might have been caused by internal pipe leakage or surface runoff.  
 08/07/2012: The site has been visited by boat survey. No significant change observed  
 08/23/2011: No significant change observed on site. Dense vegetation is visible along the water line.  
 09/07/2010: No significant change observed on site. Much of the upper slope was recently cleared of vegetation by spraying. 4- to 6-foot vertical scarp and pocket erosions are lined along a span of 475 feet. In some sections, the vertical scarp encroaches into the levee prism. There is a lack of berm along this reach, exposing the levee slope to high flow velocities during normal and flood events.  
 08/06/2010: Recommended as local maintenance issue, per CLRO.  
 03/09/2010: As discussed with Michael Moncrief of MBK Engineers, the site will be 'addressed' later this year.  
 09/29/2009: No major change observed since last visit; pocket erosion and a vertical scarp forming; this site was combined with Site RM30.13 and 30.02 with a combined total erosion length of 475 feet; recommended as annual assessment and monitoring of the site, per CLRO CES Evaluation 2008 Report; previously rated "M".  
 11/05/2008: Top of vertical scarp has rip rap that appears to be sliding; rodent holes; existing toe rip rap. [2017 Site ID:RD2062U03RM30.19]

Photo 4 of 4 : SP\_2018\_RD2062\_311\_4\_20180503\_00015.jpg



Front view of the site. The erosion has developed along the levee slope.

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

## Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	0.35	Rating **	M	Issue No.	5
LM End	0.35	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.811101 °	37.811101 °
				-121.384402 °	-121.384402 °
DWR ID	RD2062U03RM30.27				
Comment Code					
Inspector Comment					
09/13/2017: No significant change observed.					
07/25/2016: No significant change observed.					
06/25/2015: No significant change observed.					
07/02/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The site has been visited by boat survey. No significant change observed					
08/23/2011: The site is right at the downstream of a river bend. [2017 Site ID:RD2062U03RM30.27]					

LM Start	<b>0.35</b>	Rating **	M	Issue No.	<b>5 (cont)</b>
LM End	<b>0.35</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP\_2018\_RD2062\_311\_5\_20180503\_00016.jpg



Front view of the erosion.

Photo 2 of 3 : SP\_2018\_RD2062\_311\_5\_20180503\_00017.jpg



Close view of the site. Note the dense vegetation at the site.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	0.35	Rating **	M	Issue No.	5 (cont)	
LM End	0.35	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.811101 °	37.811101 °	
				-121.384402 °	-121.384402 °	
DWR ID	RD2062U03RM30.27					
Comment Code						
Inspector Comment						
09/13/2017: No significant change observed.						
07/25/2016: No significant change observed.						
06/25/2015: No significant change observed.						
07/02/2014: No significant change observed.						
08/13/2013: No significant change observed.						
08/07/2012: The site has been visited by boat survey. No significant change observed						
08/23/2011: The site is right at the downstream of a river bend. [2017 Site ID:RD2062U03RM30.27]						

Photo 3 of 3 : SP\_2018\_RD2062\_311\_5\_20180503\_00018.jpg



Front view of the erosion.

LM Start	0.51	Rating **	M	Issue No.	38
LM End	0.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.812552 °	37.812552 °
				-121.382781 °	-121.382781 °
DWR ID	DWR_RD2062_03_s_2016_38				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_RD2062\_311\_38\_20180503\_00036.jpg



View of the landside levee slope erosion around the pipe.

* 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 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	0.51	Rating **	U	Issue No.	39
LM End	0.51	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.812575 °	37.812575 °
				-121.382798 °	-121.382798 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50455 DS_ID:19200 EP_NO: 2029 Repair Type: Urgent Crossing Status: Found UCIP Comments: 08/31/2016: Sloughing of LS slope beneath exposed section of pipe. Overflow pipe has been replaced on WS, though I could not locate a permit for that work. (K. Fazel - UCIP)10/22/2013:- pits and holes on overflow pipe on waterside.- underpinning at pump support.- slope erosion on both sides of the levee.- 2-inch electric conduit on waterside and power pole on landside. (P. Amatya - DWR) FIELD_STRUCT_DESC: 16-inch coated steel irrigation discharge pipe through the levee, 8 feet below the crown. Siphon breaker on the landside (LS) slope. Pump house on the waterside (WS) slope. Concrete distribution box on the LS. 2-inch electrical conduit on the WS. Service pole on the LS. Newly installed, as of 2016, overflow pipe with shutoff valve on the WS. (Plans for installation of an inclined irrigation pump on the bank authorized under Permit No. 2029, 1954 - Reclamation District No. 2062). [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 0.52)]. FS Date: 8/31/2016					

LM Start	<b>0.51</b>	Rating **	U	Issue No.	<b>39 (cont)</b>
LM End	<b>0.51</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_50455\_40158.jpg



WS view: pump house on levee slope and soil erosion on levee slope.

Photo 2 of 3 : UCIP\_SP\_2018\_50455\_40157.jpg



WS view: pump house on levee slope and holes-pits on corroded overflow pipe (left).

* 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 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	0.51	Rating **	U	Issue No.	39 (cont)	
LM End	0.51	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.812575 °		37.812575 °
				-121.382798 °		-121.382798 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50455 DS_ID:19200 EP_NO: 2029 Repair Type: Urgent Crossing Status: Found UCIP Comments: 08/31/2016: Sloughing of LS slope beneath exposed section of pipe. Overflow pipe has been replaced on WS, though I could not locate a permit for that work. (K. Fazel - UCIP)10/22/2013:- pits and holes on overflow pipe on waterside.- underpinning at pump support.- slope erosion on both sides of the levee.- 2-inch electric conduit on waterside and power pole on landside. (P. Amatya - DWR) FIELD_STRUCT_DESC: 16-inch coated steel irrigation discharge pipe through the levee, 8 feet below the crown. Siphon breaker on the landside (LS) slope. Pump house on the waterside (WS) slope. Concrete distribution box on the LS. 2-inch electrical conduit on the WS. Service pole on the LS. Newly installed, as of 2016, overflow pipe with shutoff valve on the WS. (Plans for installation of an inclined irrigation pump on the bank authorized under Permit No. 2029, 1954 - Reclamation District No. 2062). [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 0.52)]. FS Date: 8/31/2016						

Photo 3 of 3 : UCIP\_SP\_2018\_50455\_40156.jpg



WS view: slant pump in pumphouse on levee slope.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	0.55	Rating **	M	Issue No.	7
LM End	0.56	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.813070 °	37.813070 °
				-121.383100 °	-121.383100 °
DWR ID	RD2062U03RM30.43				
Comment Code					
Inspector Comment					
09/13/2017: No significant change observed.					
07/25/2016: No significant change observed.					
06/25/2015: No significant change observed.					
07/02/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The site has been visited by boat survey. No significant change observed.					
08/23/2011: No significant change observed on site.					
09/07/2010: No significant change observed on site. Much of the placed rip rap revetment has slid. It is no longer adequately protecting the slope.					
08/06/2010: Recommended as local maintenance issue, per CLRO Report.					
03/09/2010: As discussed with Michael Moncrief of MBK, site will be 'addressed' this year.					
09/29/2009: No major change observed since last visit; a section of the rip rap has slipped, exposing a levee section that has eroded; recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM30.43,LM0.63; previously rated "U".					
11/05/2008: Site is located inside of a bend; scarp looks to be into the levee prism; piles of concrete chunks placed on the slope, with some of them already starting to slide. [2017 Site ID:RD2062U03RM30.43]					

LM Start	<b>0.55</b>	Rating **	M	Issue No.	<b>7 (cont)</b>
LM End	<b>0.56</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP\_2018\_RD2062\_311\_7\_20180503\_00019.jpg



Close view of the site.

Photo 2 of 3 : SP\_2018\_RD2062\_311\_7\_20180503\_00020.jpg



Front view of the site.

* 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 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	0.55	Rating **	M	Issue No.	7 (cont)	
LM End	0.56	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.813070 °	37.813070 °	
				-121.383100 °	-121.383100 °	
DWR ID	RD2062U03RM30.43					
Comment Code						
Inspector Comment						
09/13/2017: No significant change observed.						
07/25/2016: No significant change observed.						
06/25/2015: No significant change observed.						
07/02/2014: No significant change observed.						
08/13/2013: No significant change observed.						
08/07/2012: The site has been visited by boat survey. No significant change observed.						
08/23/2011: No significant change observed on site.						
09/07/2010: No significant change observed on site. Much of the placed rip rap revetment has slid. It is no longer adequately protecting the slope.						
08/06/2010: Recommended as local maintenance issue, per CLRO Report.						
03/09/2010: As discussed with Michael Moncrief of MBK, site will be 'addressed' this year.						
09/29/2009: No major change observed since last visit; a section of the rip rap has slipped, exposing a levee section that has eroded; recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM30.43, LM0.63; previously rated "U".						
11/05/2008: Site is located inside of a bend; scarp looks to be into the levee prism; piles of concrete chunks placed on the slope, with some of them already starting to slide. [2017 Site ID:RD2062U03RM30.43]						

Photo 3 of 3 : SP\_2018\_RD2062\_311\_7\_20180503\_00021.jpg



Front view of the site.

LM Start	0.74	Rating **	U	Issue No.	22
LM End	0.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.815262 °	37.815557 °
				-121.381455 °	-121.381562 °
DWR ID	DWR_RD2062_03_s_2018_22				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_RD2062\_311\_22\_20180523\_00052.jpg



Looking southwest at dense vegetation (Tobacco plants) on waterward slope. (Spring 2018)

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

## Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	1.18	Rating **	M	Issue No.	8
LM End	1.19	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.819290 °	37.819290 °
				-121.378880 °	-121.378880 °
DWR ID	RD2062U03RM31.12				

#### Comment Code

#### Inspector Comment

09/13/2017: No significant change observed.  
 07/25/2016: No significant change observed.  
 06/25/2015: No significant change observed.  
 07/02/2014: No significant change observed.  
 08/13/2013: No significant change observed.  
 08/07/2012: The site has been visited by boat survey. No significant change observed  
 08/23/2011: No significant change observed on site.  
 09/07/2010: No significant change observed on site. Much of the seasonal grass along the slope was cleared. Site consists of an existing scalloped erosion approximately 30 feet long by 5 feet wide at its widest opening. The lateral crack is extended outwards along the middle slope. There is a 1 to 2 feet of differential settlement that could further develop into a shallow slide.  
 08/06/2010: Recommended as local maintenance issue, per CLRO.  
 03/09/2010: As discussed with Michael Moncrief of MBK Engineer, site will be 'addressed' this year.  
 09/28/2009: No major change observed; section of rip rap has slipped, creating a terraced effect; dense vegetation growth; recommended as a local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM31.12,LM1.25; previously rated "U".  
 09/14/2006: 1-2' into prism. [2017 Site ID:RD2062U03RM31.12]

LM Start	<b>1.18</b>	Rating **	M	Issue No.	<b>8 (cont)</b>
LM End	<b>1.19</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP\_2018\_RD2062\_311\_8\_20180503\_00022.jpg



Front view of the site.

Photo 2 of 3 : SP\_2018\_RD2062\_311\_8\_20180503\_00023.jpg



Front view of the site.

* 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 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	1.18	Rating **	M	Issue No.	8 (cont)
LM End	1.19	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.819290 °	37.819290 °
				-121.378880 °	-121.378880 °
DWR ID	RD2062U03RM31.12				
Comment Code					
Inspector Comment					
09/13/2017: No significant change observed.					
07/25/2016: No significant change observed.					
06/25/2015: No significant change observed.					
07/02/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The site has been visited by boat survey. No significant change observed					
08/23/2011: No significant change observed on site.					
09/07/2010: No significant change observed on site. Much of the seasonal grass along the slope was cleared. Site consists of an existing scalloped erosion approximately 30 feet long by 5 feet wide at its widest opening. The lateral crack is extended outwards along the middle slope. There is a 1 to 2 feet of differential settlement that could further develop into a shallow slide.					
08/06/2010: Recommended as local maintenance issue, per CLRO.					
03/09/2010: As discussed with Michael Moncrief of MBK Engineer, site will be 'addressed' this year.					
09/28/2009: No major change observed; section of rip rap has slipped, creating a terraced effect; dense vegetation growth; recommended as a local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM31.12,LM1.25; previously rated "U".					
09/14/2006: 1-2' into prism. [2017 Site ID:RD2062U03RM31.12]					

Photo 3 of 3 : SP\_2018\_RD2062\_311\_8\_20180503\_00024.jpg



Front view of the site.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	1.39	Rating **	U	Issue No.	9
LM End	1.40	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.821380 °	37.821380 °
				-121.376900 °	-121.376900 °
DWR ID	RD2062U03RM31.28				

**Comment Code**

**Inspector Comment**

09/13/2017: No significant change observed.  
 07/25/2016: No significant change observed.  
 06/25/2015: No significant change observed.  
 07/02/2014: No significant change observed.  
 08/13/2013: No significant change observed.  
 08/07/2012: The site has been visited by boat survey. No significant change observed.  
 08/23/2011: No significant change observed on site.  
 09/07/2010: No significant change observed on site. There is a small- to medium sized Oak tree on the mid-slope just above rip rap. Some of the rip rap has collapsed, creating a pocket erosion just above the existing toe rip rap and upstream of the Oak tree.  
 08/06/2010: Recommended as local maintenance issue, per CLRO.  
 03/09/2010: As discussed with Michael Moncrief of MBK Engineer, site will be 'addressed' in 2010.  
 09/29/2009: No major change since last visit; sliding of the rip rap at the base of the lone tree; there is noticeable man-made trail and foot traffic extending from the crown to the toe; much of the broken concrete used as temporary rip rap has slid, exposing portion of the bare levee slope; recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM31.3, LM1.45; previously rated "M".  
 11/05/2008: Portion of rip rap collapsing.  
 09/14/2006: Portion of rip rap along the slope has collapsed; exposed levee section is starting to erode, exposing roots from the nearby tree.  
 [2017 Site ID:RD2062U03RM31.28]

LM Start	<b>1.39</b>	Rating **	U	Issue No.	<b>9 (cont)</b>
LM End	<b>1.40</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 4 : SP\_2018\_RD2062\_311\_9\_20180503\_00025.jpg



Front view of the erosion site.

Photo 2 of 4 : SP\_2018\_RD2062\_311\_9\_20180503\_00026.jpg



Close view of the site.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	<b>1.39</b>	Rating **	U	Issue No.	<b>9 (cont)</b>
LM End	<b>1.40</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.821380 °	37.821380 °	
			-121.376900 °	-121.376900 °	
DWR ID	RD2062U03RM31.28				

**Comment Code**

**Inspector Comment**

09/13/2017: No significant change observed.  
 07/25/2016: No significant change observed.  
 06/25/2015: No significant change observed.  
 07/02/2014: No significant change observed.  
 08/13/2013: No significant change observed.  
 08/07/2012: The site has been visited by boat survey. No significant change observed.  
 08/23/2011: No significant change observed on site.  
 09/07/2010: No significant change observed on site. There is a small- to medium sized Oak tree on the mid-slope just above rip rap. Some of the rip rap has collapsed, creating a pocket erosion just above the existing toe rip rap and upstream of the Oak tree.  
 08/06/2010: Recommended as local maintenance issue, per CLRO.  
 03/09/2010: As discussed with Michael Moncrief of MBK Engineer, site will be 'addressed' in 2010.  
 09/29/2009: No major change since last visit; sliding of the rip rap at the base of the lone tree; there is noticeable man-made trail and foot traffic extending from the crown to the toe; much of the broken concrete used as temporary rip rap has slid, exposing portion of the bare levee slope; recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM31.3, LM1.45; previously rated "M".  
 11/05/2008: Portion of rip rap collapsing.  
 09/14/2006: Portion of rip rap along the slope has collapsed; exposed levee section is starting to erode, exposing roots from the nearby tree.  
 [2017 Site ID:RD2062U03RM31.28]

LM Start	<b>1.39</b>	Rating **	U	Issue No.	<b>9 (cont)</b>
LM End	<b>1.40</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : SP\_2018\_RD2062\_311\_9\_20180503\_00027.jpg



Front view of the site. Note the existing broken concrete on levee slope and at the levee toe.

Photo 4 of 4 : SP\_2018\_RD2062\_311\_9\_20180503\_00028.jpg



Close view of the site.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> 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 2018

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	2.18	Rating **	M	Issue No.	20
LM End	2.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.818725 °	37.818725 °
				-121.363762 °	-121.363762 °
DWR ID	DWR_RD2062_03_s_2018_20				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Slope damage caused by foot traffic on waterward slope.					

Photo 1 of 1 : SP\_2018\_RD2062\_311\_20\_20180523\_00053.jpg



Looking west at slope damage (foot traffic) on waterward slope. (Spring 2018)

LM Start	2.77	Rating **	M	Issue No.	40
LM End	2.77	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.816362 °	37.816362 °
				-121.354339 °	-121.354339 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:23311 DS_ID:19202 EP_NO: 2505 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pumphouse roof missing.- siphon breaker buried by dirt in CMP riser.- 2.25 inch electric conduit and power pole on landside. FIELD_STRUCT_DESC: 2 of 2: 16-inch irrigation discharge pipe of an unknown material through the levee, 6.5 feet below the crown. Pump in a pump house on a pile structure in the stream. Timber walkway to the pump. Siphon breaker in a corrugated metal pipe (CMP) riser on the landside (LS) slope. Concrete distribution box at the LS toe. Timber bulkhead and slab on the waterside (WS) slope. Installed by USACE in 1963. (Plans for the installation of two irrigation pumps on the bank to replace an existing pumping plant at this location authorized under Permit No. 2505, 1959 - Reclamation District No. 2062). [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 2.81)]. FS Date: 10/22/2013					

Photo 1 of 3 : UCIP\_SP\_2018\_23311\_40175.jpg



WS view: wooden walkway to pumphouse, pumphouse on wooden pile structure in the stream.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	2.77	Rating **	M	Issue No.	40 (cont)	
LM End	2.77	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.816362 °	37.816362 °	
				-121.354339 °	-121.354339 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:23311 DS_ID:19202 EP_NO: 2505 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pumphouse roof missing.- siphon breaker buried by dirt in CMP riser.- 2.25 inch electric conduit and power pole on landside. FIELD_STRUCT_DESC: 2 of 2: 16-inch irrigation discharge pipe of an unknown material through the levee, 6.5 feet below the crown. Pump in a pump house on a pile structure in the stream. Timber walkway to the pump. Siphon breaker in a corrugated metal pipe (CMP) riser on the landside (LS) slope. Concrete distribution box at the LS toe. Timber bulkhead and slab on the waterside (WS) slope. Installed by USACE in 1963. (Plans for the installation of two irrigation pumps on the bank to replace an existing pumping plant at this location authorized under Permit No. 2505, 1959 - Reclamation District No. 2062). [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 2.81)]. FS Date: 10/22/2013						

LM Start	<b>2.77</b>	Rating **	M	Issue No.	<b>40 (cont)</b>
LM End	<b>2.77</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_23311\_40174.jpg



WS view: exposed steel pipes and an electric conduit on levee slope.

Photo 3 of 3 : UCIP\_SP\_2018\_23311\_40173.jpg



LS view: two CMP risers on levee slope, concrete distribution box, and service pole across the dirt road, off the levee toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	2.77	Rating **	M	Issue No.	41
LM End	2.77	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.816362 °	37.816362 °
				-121.354334 °	-121.354334 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:23312 DS_ID:19205 EP_NO: 2505 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pumphouse roof missing.- siphon breaker buried by dirt in CMP riser.- 2.25 inch electric conduit and power pole on landside. FIELD_STRUCT_DESC: 1 of 2: 14-inch irrigation discharge pipe of an unknown material through the levee, 6.5 feet below the crown. Pump in a pump house on a pile structure in the stream. Timber walkway to the pump. Siphon breaker in a corrugated metal pipe (CMP) riser on the landside (LS) slope. Concrete distribution box at the LS toe. Timber bulkhead and slab on the waterside (WS) slope. Installed by USACE in 1963. (Plans for the installation of two irrigation pumps on the bank to replace an existing pumping plant at this location authorized under Permit No. 2505, 1959 - Reclamation District No. 2062). [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 2.81)]. FS Date: 10/22/2013					

LM Start	<b>2.77</b>	Rating **	M	Issue No.	<b>41 (cont)</b>
LM End	<b>2.77</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_23312\_40181.jpg



WS view: wooden walkway to pumphouse, pumphouse on wooden pile structure in the stream.

Photo 2 of 3 : UCIP\_SP\_2018\_23312\_40179.jpg



WS view: exposed steel pipes and a electric conduit on levee slope.

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

## Levee Inspection Report By Mile - Spring 2018

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	2.77	Rating **	M	Issue No.	41 (cont)	
LM End	2.77	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.816362 °	37.816362 °	
				-121.354334 °	-121.354334 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:23312 DS_ID:19205 EP_NO: 2505 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pumphouse roof missing.- siphon breaker buried by dirt in CMP riser.- 2.25 inch electric conduit and power pole on landside. FIELD_STRUCT_DESC: 1 of 2: 14-inch irrigation discharge pipe of an unknown material through the levee, 6.5 feet below the crown. Pump in a pump house on a pile structure in the stream. Timber walkway to the pump. Siphon breaker in a corrugated metal pipe (CMP) riser on the landside (LS) slope. Concrete distribution box at the LS toe. Timber bulkhead and slab on the waterside (WS) slope. Installed by USACE in 1963. (Plans for the installation of two irrigation pumps on the bank to replace an existing pumping plant at this location authorized under Permit No. 2505, 1959 - Reclamation District No. 2062). [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 2.81)]. FS Date: 10/22/2013						

Photo 3 of 3 : UCIP\_SP\_2018\_23312\_40180.jpg



LS view: two CMP risers on levee slope, concrete distribution box, and service pole across the dirt road, off the levee toe.

LM Start	3.61	Rating **	M	Issue No.	31
LM End	3.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.816982 °	37.816541 °
				-121.342939 °	-121.342191 °
DWR ID	DWR_RD2062_03_s_2015_31				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
About a 3 ft vertical cut at the levee toe into the levee prism.					

Photo 1 of 1 : SP\_2018\_RD2062\_311\_31\_20180503\_00033.jpg



View of the eroded landside levee toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	3.92	Rating **	M	Issue No.	21
LM End	4.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.819607 °	37.818882 °
				-121.340357 °	-121.334412 °
DWR ID	DWR_RD2062_03_s__2018_21				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	3.99	Rating **	A/W	Issue No.	10
LM End	4.01	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.820834 °	37.820834 °
				-121.340314 °	-121.340314 °
DWR ID	RD2062U03RM33.92				
Comment Code					
Inspector Comment					
09/13/2017: The erosion site is immediately downstream of a sharp river bend. [2017 Site ID:RD2062U03RM33.92]					

LM Start	<b>3.99</b>	Rating **	A/W	Issue No.	<b>10 (cont)</b>
LM End	<b>4.01</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP\_2018\_RD2062\_311\_10\_20180503\_00029.jpg



Front view of the erosion located at the inside of a sharp river bend.

Photo 2 of 3 : SP\_2018\_RD2062\_311\_10\_20180503\_00030.jpg



Close view of the erosion.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	3.99	Rating **	A/W	Issue No.	10 (cont)	
LM End	4.01	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.820834 °		37.820834 °
				-121.340314 °		-121.340314 °
DWR ID	RD2062U03RM33.92					
Comment Code						
Inspector Comment						
09/13/2017: The erosion site is immediately downstream of a sharp river bend. [2017 Site ID:RD2062U03RM33.92]						

Photo 3 of 3 : SP\_2018\_RD2062\_311\_10\_20180503\_00031.jpg



Close view of the erosion. Note the sandy material of the river bank at the erosion site.

LM Start	4.30	Rating **	M	Issue No.	37
LM End	4.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.819436 °	37.819096 °
				-121.335469 °	-121.334829 °
DWR ID	DWR_RD2062_03_f_2016_37				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Toe road encroaches into the levee toe.					

Photo 1 of 1 : SP\_2018\_RD2062\_311\_37\_20180503\_00035.jpg



View of the toe road encroaching into the levee prism.

LM Start	4.83	Rating **	M	Issue No.	35
LM End	4.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.812849 °	37.811682 °
				-121.336116 °	-121.336271 °
DWR ID	DWR_RD2062_03_f_2014_35				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
2 to 3 feet vertical cut possibly caused by previous floods.					

Photo 1 of 1 : SP\_2018\_RD2062\_311\_35\_20180503\_00034.jpg



View of a 2-3 feet vertical cut at the landside levee toe.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	5.16	Rating **	U	Issue No.	17
LM End	5.16	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			37.808432 °	37.808432 °
				-121.334767 °	-121.334767 °
DWR ID	DWR_RD2062_03_s_2018_17				
Comment Code					
Inspector Comment					
Lock system (mechanism) should be replace safety issue. Was not able to remove lock to hard to reach due to position of lock.					

Photo 1 of 1 : SP\_2018\_RD2062\_311\_17\_20180523\_00054.jpg



Looking north at gate (lock mechanism) should be replace or fixed. (Spring 2018)

LM Start	5.16	Rating **	M	Issue No.	19
LM End	5.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.808432 °	37.808432 °
				-121.334767 °	-121.334767 °
DWR ID	DWR_RD2062_03_s_2018_19				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Slope damage due to gate issues. Vehicle traffic.					

Photo 1 of 1 : SP\_2018\_RD2062\_311\_19\_20180523\_00055.jpg



Looking west slope damage due to vehicle traffic. (Spring 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 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	5.37	Rating **	M	Issue No.	42
LM End	5.37	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.807305 °	37.807305 °
				-121.331290 °	-121.331290 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:23142 DS_ID:19203 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - siphon breakers not protected.- flow meter and gage station on waterside.- pump house on wooden pile structure. Walkway to the pumphouse. FIELD_STRUCT_DESC: 1 of 2: 16-inch irrigation discharge pipe of an unknown material through the levee, 4 feet below the crown. Pump in a pump house on a pile structure in the stream. Walkway to the pump house. Siphon breaker on the landside (LS) slope. Concrete distribution box on the LS berm. [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 5.45)]. FS Date: 10/22/2013					

LM Start	<b>5.37</b>	Rating **	M	Issue No.	<b>42 (cont)</b>
LM End	<b>5.37</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_23142\_39549.jpg



WS view: steel walkway to pump house in the stream.

Photo 2 of 3 : UCIP\_SP\_2018\_23142\_39548.jpg



WS view: two 16-inch pipes under walkway. Gate valve without handle on one of the pipes.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	5.37	Rating **	M	Issue No.	42 (cont)	
LM End	5.37	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.807305 °		37.807305 °
				-121.331290 °		-121.331290 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:23142 DS_ID:19203 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - siphon breakers not protected.- flow meter and gage station on waterside.- pump house on wooden pile structure. Walkway to the pumphouse. FIELD_STRUCT_DESC: 1 of 2: 16-inch irrigation discharge pipe of an unknown material through the levee, 4 feet below the crown. Pump in a pump house on a pile structure in the stream. Walkway to the pump house. Siphon breaker on the landside (LS) slope. Concrete distribution box on the LS berm. [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 5.45)]. FS Date: 10/22/2013						

Photo 3 of 3 : UCIP\_SP\_2018\_23142\_39547.jpg



WS view: pump house on wooden pipe structure in the stream. Two steel pipes under the walkway.

LM Start	5.37	Rating **	M	Issue No.	43	
LM End	5.37	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.807305 °	37.807305 °	
				-121.331276 °	-121.331276 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:23140 DS_ID:19206 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - siphon breakers not protected.- flow meter and gage station on waterside.- pump house on wooden pile structure. Walkway to the pumphouse. FIELD_STRUCT_DESC: 2 of 2: 16-inch irrigation discharge pipe of an unknown material through the levee, 4 feet below the crown. Pump in a pump house on a pile structure in the stream. Walkway to the pump house. Siphon breaker on the landside (LS) slope. Concrete distribution box on the LS berm. [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 5.45)]. FS Date: 10/22/2013						

Photo 1 of 3 : UCIP\_SP\_2018\_23140\_39531.jpg



WS view: steel walkway to pump house in the stream.

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

**Levee Inspection Report By Mile - Spring 2018**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/22/2018 05/22/2018	Richard Willoughby

LM Start	5.37	Rating **	M	Issue No.	43 (cont)	
LM End	5.37	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.807305 °		37.807305 °
				-121.331276 °		-121.331276 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:23140 DS_ID:19206 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - siphon breakers not protected.- flow meter and gage station on waterside.- pump house on wooden pile structure. Walkway to the pumphouse. FIELD_STRUCT_DESC: 2 of 2: 16-inch irrigation discharge pipe of an unknown material through the levee, 4 feet below the crown. Pump in a pump house on a pile structure in the stream. Walkway to the pump house. Siphon breaker on the landside (LS) slope. Concrete distribution box on the LS berm. [Additional Reference(s): DWR Levee Log, 2007. USACE San Joaquin O&M Manual 9, April 1964, (HLM 5.45)]. FS Date: 10/22/2013						

LM Start	<b>5.37</b>	Rating **	M	Issue No.	<b>43 (cont)</b>
LM End	<b>5.37</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_23140\_39530.jpg



WS view: two 16-inch pipes under walkway. Gate valve without handle on one of the pipes.

Photo 3 of 3 : UCIP\_SP\_2018\_23140\_39529.jpg



WS view: pump house on wooden pipe structure in the stream. Two steel pipes under the walkway.

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