

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2019 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including DWR Erosion Survey**

***San Joaquin River Basin***

<b>RD0524</b>	Overall LMA Rating	Total LMA Miles						
<b>Reclamation District No. 0524 Middle Roberts Island</b>	<b>U</b>	<b>6.20</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.46	0.23	1.38	22.27%	0.02	0.11		
Trim / Thin Trees	0.51	0.09	0.87	14.04%				
Encroachments	0.05	0.01	0.09	1.45%	0.53	0.31		
Animal Control	0.79	0.19	1.55	25.01%				
Slope Stability	0.02		0.02	0.32%				
Erosion / Bank Caving	0.06		0.06	0.97%				
Crown Surface / Depressions / Rutting	0.01		0.01	0.16%				
Emergency Supplies & Equipment	0.06		0.06	0.97%				
Flood Preparedness & Training	0.06		0.06	0.97%				
<i>Supplemental</i>								
DWR Erosion Survey	0.06	0.27	1.14	18.39%				
DRAFT DWR UCIP Field Study					0.33	0.01		
DRAFT DWR UCIP LMA Responsibility								
<i>LMA Totals:</i>	2.08	0.79	5.24	84.55%	0.88	0.43	0.00	0.00
<b>Unit No. 01 San Joaquin River LB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD0524</b>	<b>U</b>	<b>6.20</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.46	0.23	1.38	22.27%	0.02	0.11		
Trim / Thin Trees	0.51	0.09	0.87	14.04%				
Encroachments	0.05	0.01	0.09	1.45%	0.53	0.31		
Animal Control	0.79	0.19	1.55	25.01%				
Slope Stability	0.02		0.02	0.32%				
Erosion / Bank Caving	0.06		0.06	0.97%				
Crown Surface / Depressions / Rutting	0.01		0.01	0.16%				
<i>Supplemental</i>								
DWR Erosion Survey	0.06	0.27	1.14	18.39%				
DRAFT DWR UCIP Field Study					0.33	0.01		
DRAFT DWR UCIP LMA Responsibility								
<i>Unit Totals:</i>	1.96	0.79	5.12	82.61%	0.88	0.43	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2019 Levee Inspection Results**

**Reclamation District No. 0524 Middle Roberts Island**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			U	

\*\* 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**

**Fall 2019 Levee Inspection Results**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	6.20
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	3/26/2019 - 3/27/2019		10/2/2019 - 11/14/2019	
DWR Inspector	Alberto De Leon		Alberto De Leon	
Accompanied By	Zach Jojola DWR		Mike Engelmann DWR	

**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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>121</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_RD0524_01_s_2012_121				
Comment Code					
Inspector Comment					
The RD has a digital copy of the O&M manual.					

No Photos

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>123</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_RD0524_01_s_2012_123				
Comment Code					
Inspector Comment					
No recent training.					

No Photos

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>138</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_RD0524_01_s_2013_138				
Comment Code					
Inspector Comment					
The LMA does not appear to have emergency supplies or equipment.					

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	<b>0.01</b>	Rating **	M	Issue No.	<b>107</b>
LM End	<b>0.13</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.941151°	37.939900°
				-121.346011°	-121.344580°
DWR ID	DWR_RD0524_01_f_2019_107				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	<b>0.01</b>	Rating **	M	Issue No.	<b>131</b>
LM End	<b>0.01</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.941113°	37.941113°
				-121.345959°	-121.345959°
DWR ID	DWR_RD0524_01_s_2019_131				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Multiple small holes on waterside shoulder do not appear to be active.					

No Photos

LM Start	<b>0.14</b>	Rating **	M	Issue No.	<b>108</b>
LM End	<b>0.19</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.939679°	37.939136°
				-121.344391°	-121.343941°
DWR ID	DWR_RD0524_01_f_2019_108				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
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  
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**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	<b>0.18</b>	Rating **	U	Issue No.	<b>1</b>
LM End	<b>0.18</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.939085°	37.939085°
				-121.343917°	-121.343917°
DWR ID	RD0524U01RM40.85				

**Comment Code**

**Inspector Comment**

Site ID: RD0524U01RM40.85  
 08/13/2019: No significant change observed.  
 09/13/2017: No significant change observed.  
 07/25/2016: No significant change observed.  
 06/24/2015: No significant change observed.  
 06/19/2014: No significant change observed.  
 08/13/2013: The erosion was discovered during 2013 spring levee inspection. Inspector comment: Erosion is located along the lower level of water-ward slope.

LM Start	<b>0.18</b>	Rating **	U	Issue No.	<b>1 (cont)</b>
LM End	<b>0.18</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : SJR2019\_RD0524U01RM40.85\_4.JPG



Close-up view of the erosion.

Photo 2 of 3 : SJR2019\_RD0524U01RM40.85\_1.JPG



Front 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.18	Rating **	U	Issue No.	1 (cont)	
LM End	0.18	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.939085 °	37.939085 °	
				-121.343917 °	-121.343917 °	
DWR ID	RD0524U01RM40.85					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM40.85 08/13/2019: No significant change observed. 09/13/2017: No significant change observed. 07/25/2016: No significant change observed. 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: The erosion was discovered during 2013 spring levee inspection. Inspector comment: Erosion is located along the lower level of water-ward slope.						

Photo 3 of 3 : SJR2019\_RD0524U01RM40.85\_2.JPG



Front view of the erosion.

LM Start	0.23	Rating **	M	Issue No.	201
LM End	0.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.938648 °	37.938648 °
				-121.343480 °	-121.343480 °
DWR ID	DWR_RD0524_01_f_2016_201				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 2 : FA\_2019\_RD0524\_107\_201\_20190830\_00184.jpg



View of tree on waterside slope looking upstream. Spring 2019.

<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. 0524 Middle Roberts Island



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.27	Rating **	U	Issue No.	179 (cont)	
LM End	0.27	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			37.938438 °		37.938438 °
				-121.342883 °		-121.342883 °
DWR ID	DWR_RD0524_01_s_2014_179					
Comment Code						
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.						
Inspector Comment						
Tree blocking view of waterside slope.						

Photo 2 of 2 : FA\_2019\_RD0524\_107\_179\_20190830\_00160.jpg



Looking east at untrimmed tree on waterward slope. (Fall 2016)

LM Start	0.31	Rating **	M	Issue No.	112
LM End	0.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.938409 °	37.938409 °
				-121.342140 °	-121.342140 °
DWR ID	DWR_RD0524_01_f_2019_112				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.32	Rating **	M	Issue No.	113
LM End	0.32	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.938434 °	37.938434 °
				-121.341968 °	-121.341968 °
DWR ID	DWR_RD0524_01_f_2019_113				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.32	Rating **	M	Issue No.	118
LM End	0.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.938434 °	37.938434 °
				-121.341967 °	-121.341967 °
DWR ID	DWR_RD0524_01_f_2019_118				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	0.34	Rating **	M	Issue No.	2
LM End	0.34	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.938461 °	37.938461 °
				-121.341526 °	-121.341526 °
DWR ID	RD0524U01RM40.93				
Comment Code					
Inspector Comment					
Site ID: RD0524U01RM40.93					
08/13/2019: No significant change observed.					
09/13/2017: There are two pocket erosions at the site; both erosions are around 10 ft long and 6 ft high.					

Photo 1 of 3 : SJR2019\_RD0524U01RM40.93\_2.JPG



Front view of the erosion site.

LM Start	<b>0.34</b>	Rating **	M	Issue No.	<b>2 (cont)</b>
LM End	<b>0.34</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : SJR2019\_RD0524U01RM40.93\_1.JPG



Looking downstream of the erosion.

* 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.34	Rating **	M	Issue No.	2 (cont)	
LM End	0.34	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.938461 °		37.938461 °
				-121.341526 °		-121.341526 °
DWR ID	RD0524U01RM40.93					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM40.93						
08/13/2019: No significant change observed.						
09/13/2017: There are two pocket erosions at the site; both erosions are around 10 ft long and 6 ft high.						

Photo 3 of 3 : SJR2019\_RD0524U01RM40.93\_3.JPG



Close-up view of the erosion site.

LM Start	0.35	Rating **	M	Issue No.	119
LM End	0.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.938487 °	37.938487 °
				-121.341491 °	-121.341491 °
DWR ID	DWR_RD0524_01_f_2019_119				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	0.36	Rating **	U	Issue No.	125
LM End	0.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.938509 °	37.938509 °
				-121.341300 °	-121.341300 °
DWR ID	DWR_RD0524_01_f_2019_125				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : FA\_2019\_RD0524\_107\_125\_20191117\_00359.jpg



View of large rodent hole on landside slope. Fall 2019

<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>N : Not Inspected/Rated</b> 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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## Levee Inspection Report By Mile - Fall 2019

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

Photo 2 of 2 : FA\_2019\_RD0524\_107\_125\_20191117\_00361.jpg



View of large rodent hole on landside slope. Fall 2019

No Photos

Photo 1 of 1 : FA\_2019\_RD0524\_107\_122\_20191117\_00358.jpg



View of large rodent hole on waterside slope. Fall 2019

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.36	Rating **	M	Issue No.	126
LM End	0.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.938528°	37.938707°
				-121.341178°	-121.339397°
DWR ID	DWR_RD0524_01_f_2019_126				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	0.40	Rating **	U	Issue No.	5	
LM End	0.40	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.938870 °		37.938870 °
				-121.340460 °		-121.340460 °
DWR ID	RD0524U01RM40.99					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM40.99						
08/13/2019: No significant change observed.						
09/13/2017: No significant change observed.						
07/25/2016: More vegetation observed at the site.						
06/24/2015: No significant change observed.						
06/19/2014: No significant change observed.						
08/13/2013: No significant change at this site.						
08/07/2012: The erosion is at the upper levee slope, and likely caused by slope slip. The lower levee slope is covered with dense vegetation.						

Photo 1 of 3 : SJR2019\_RD0524U01RM40.99\_1.jpg



Front view of the erosion 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	<b>0.40</b>	Rating **	U	Issue No.	<b>5 (cont)</b>
LM End	<b>0.40</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.938870 °	37.938870 °	
			-121.340460 °	-121.340460 °	
DWR ID	RD0524U01RM40.99				

**Comment Code**

**Inspector Comment**

Site ID: RD0524U01RM40.99  
 08/13/2019: No significant change observed.  
 09/13/2017: No significant change observed.  
 07/25/2016: More vegetation observed at the site.  
 06/24/2015: No significant change observed.  
 06/19/2014: No significant change observed.  
 08/13/2013: No significant change at this site.  
 08/07/2012: The erosion is at the upper levee slope, and likely caused by slope slip. The lower levee slope is covered with dense vegetation.

LM Start	<b>0.40</b>	Rating **	U	Issue No.	<b>5 (cont)</b>
LM End	<b>0.40</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : SJR2019\_RD0524U01RM40.99\_2.jpg



Front view of the site.

Photo 3 of 3 : SJR2019\_RD0524U01RM40.99\_3.jpg



Close-up 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.43	Rating **	C	Issue No.	170
LM End	0.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.938669 °	37.938669 °
				-121.340006 °	-121.340006 °
DWR ID	DWR_RD0524_01_s_2015_170				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion on waterside toe, exposed area does not have rip rap					

No Photos

LM Start	0.47	Rating **	M	Issue No.	127
LM End	0.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.938717 °	37.938238 °
				-121.339133 °	-121.336479 °
DWR ID	DWR_RD0524_01_f_2019_127				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.63	Rating **	U	Issue No.	11
LM End	0.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.938232 °	37.938160 °
				-121.336484 °	-121.336357 °
DWR ID	DWR_RD0524_01_s_2012_11				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Arrundo on waterside slope					

Photo 1 of 2 : FA\_2019\_RD0524\_107\_11\_20190830\_00013.jpg



Looking at bamboo 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.63	Rating **	U	Issue No.	11 (cont)	
LM End	0.64	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.938232°	37.938160°	
				-121.336484°	-121.336357°	
DWR ID	DWR_RD0524_01_s_2012_11					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Arrundo on waterside slope						

Photo 2 of 2 : FA\_2019\_RD0524\_107\_11\_20190830\_00014.jpg



Looking southeast at the waterside slope.

LM Start	0.63	Rating **	U	Issue No.	15
LM End	0.63	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.938247 °	37.938247 °
				-121.336503 °	-121.336503 °
DWR ID	RD0524U01RM41.26				
Comment Code					
Inspector Comment					
Site ID: RD0524U01RM41.26					
08/13/2019: No significant change observed.					
09/13/2017: The erosion was discovered by levee inspection. The erosion site is immediately downstream of tall vegetation.					

Photo 1 of 3 : SJR2019\_RD0524U01RM41.26\_1.JPG



Front view of the erosion. The erosion is located at the shadow of the vegetation.

LM Start	<b>0.63</b>	Rating **	U	Issue No.	<b>15 (cont)</b>
LM End	<b>0.63</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : SJR2019\_RD0524U01RM41.26\_2.JPG



Front 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.63	Rating **	U	Issue No.	15 (cont)	
LM End	0.63	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.938247 °	37.938247 °	
				-121.336503 °	-121.336503 °	
DWR ID	RD0524U01RM41.26					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM41.26						
08/13/2019: No significant change observed.						
09/13/2017: The erosion was discovered by levee inspection. The erosion site is immediately downstream of tall vegetation.						

Photo 3 of 3 : SJR2019\_RD0524U01RM41.26\_5.JPG



Close-up view of the erosion between the high bushes.

LM Start	0.67	Rating **	M	Issue No.	933
LM End	0.67	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			37.937891°	37.937891°
				-121.335939°	-121.335939°
DWR ID	20592				
Comment Code					
Inspector Comment					
DS_ID:20592					
FS_ID:17563					
EP_NO: 6035					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Flows from primer tank causing erosion on LS slope.					
FIELD_STRUCT_DESC: 48-inch coated steel sewer pipe through the					
levee, 7.3 feet below the crown. Siphon pumps and primer tank					
enclosed by cyclone fence on the landside (LS) shoulder. Gate valve at					
inlet sump 100 feet off the LS toe. One concrete cutoff wall. (Permit No.					
6035, 1968 - City of Stockton). [Additional Reference(s): DWR Levee					
Log, 2004].					
FS Date: 8/16/2013					

Photo 1 of 3 : UCIP\_FA\_2019\_17563\_29702.jpg



Signage for effluent pipe on WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.67	Rating **	M	Issue No.	933 (cont)	
LM End	0.67	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			37.937891 °		37.937891 °
				-121.335939 °		-121.335939 °
DWR ID	20592					
Comment Code						
Inspector Comment						
DS_ID:20592 FS_ID:17563 EP_NO: 6035 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Flows from primer tank causing erosion on LS slope. FIELD_STRUCT_DESC: 48-inch coated steel sewer pipe through the levee, 7.3 feet below the crown. Siphon pumps and primer tank enclosed by cyclone fence on the landside (LS) shoulder. Gate valve at inlet sump 100 feet off the LS toe. One concrete cutoff wall. (Permit No. 6035, 1968 - City of Stockton). [Additional Reference(s): DWR Levee Log, 2004]. FS Date: 8/16/2013						

LM Start	<b>0.67</b>	Rating **	M	Issue No.	<b>933 (cont)</b>
LM End	<b>0.67</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2019\_17563\_29701.jpg



Siphon Priming tank and associated pipes on LS shoulder.

Photo 3 of 3 : UCIP\_FA\_2019\_17563\_29700.jpg



Vacuum pumps off LS 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.67	Rating **	U	Issue No.	14
LM End	0.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.937808 °	37.937808 °
				-121.335913 °	-121.335913 °
DWR ID	DWR_RD0524_01_s_2012_14				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Arundo on waterside slope					

Photo 1 of 2 : FA\_2019\_RD0524\_107\_14\_20191117\_00363.jpg



View of bamboo on waterside slope. Fall 2019

LM Start	<b>0.67</b>	Rating **	U	Issue No.	<b>14 (cont)</b>
LM End	<b>0.67</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2019\_RD0524\_107\_14\_20190830\_00015.jpg



Looking south at dying bamboo on waterward slope. Fall 2015

LM Start	0.70	Rating **	M	Issue No.	16	
LM End	0.70	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.937577 °		37.937577 °
				-121.335491 °		-121.335491 °
DWR ID	RD0524U01RM41.34					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM41.34						
08/22/2019: No significant change observed.						
09/13/2017: Pocket erosion above the protected levee toe.						

Photo 1 of 2 : SJR2019\_RD0524U01RM41.34\_1.JPG



Front view of the erosion.

**\* 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

# Reclamation District No. 0524 Middle Roberts Island

A photograph showing a shoreline with a sandy bank. The bank is covered with dry, tangled sticks and some sparse, low-lying green and brown vegetation. In the background, there is a calm body of water under a clear sky. The image is oriented horizontally but appears to be a vertical shot rotated 90 degrees clockwise.Page 17 of 180



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	<b>0.70</b>	Rating **	A/W	Issue No.	<b>153 (cont)</b>					
LM End	<b>0.70</b>	Issue Type +	Ma	Location *						
Category	Supplemental		GPS Latitude/Longitude							
			Start	End						
Item	2017 Storm Damage		37.937500°	37.937500°						
			-121.335500°	-121.335500°						
DWR ID	LMA-447									
Comment Code										
Inspector Comment										
<b>Levee Evaluation Comments</b> Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. Site ID No: 541 Site Designation: LMA-447 Repair Type: Erosion Rating: Area of Concern Field Date: 8/10/2017 Notes:										

Photo 2 of 3 : LEVAL\_FA\_2019\_541\_4080.jpg



LM Start	<b>0.70</b>	Rating **	A/W	Issue No.	<b>153 (cont)</b>
LM End	<b>0.70</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : LEVAL\_FA\_2019\_541\_4083.jpg



<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.71	Rating **	M	Issue No.	17
LM End	0.73	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.937222 °	37.937222 °
				-121.335277 °	-121.335277 °
DWR ID	RD0524U01RM41.36				
Comment Code					
Inspector Comment					
Site ID: RD0524U01RM41.36					
08/13/2019: No significant change observed.					
09/13/2017: No significant change observed.					
07/25/2016: No significant change observed.					
06/24/2015: The erosion site is immediately downstream of the RR bridge.					

LM Start	<b>0.71</b>	Rating **	M	Issue No.	<b>17 (cont)</b>
LM End	<b>0.73</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : SJR2019\_RD0524U01RM41.36\_1.JPG



Front view of the erosion.

Photo 2 of 3 : SJR2019\_RD0524U01RM41.36\_2.JPG



Close-up view of the erosion.

LM Start	<b>0.71</b>	Rating **	M	Issue No.	<b>17 (cont)</b>
LM End	<b>0.73</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : SJR2019\_RD0524U01RM41.36\_3.JPG



Close-up view of the erosion.

* 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.72	Rating **	M	Issue No.	157
LM End	0.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.937290 °	37.937290 °
				-121.335417 °	-121.335417 °
DWR ID	DWR_RD0524_01_s_2017_157				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Slope damage caused by rain runoff on landside slope.					

Photo 1 of 2 : FA\_2019\_RD0524\_107\_157\_20191117\_00364.jpg



View of erosion caused by surface runoff. Fall 2019

LM Start	<b>0.72</b>	Rating **	M	Issue No.	<b>157 (cont)</b>
LM End	<b>0.72</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA\_2019\_RD0524\_107\_157\_20190830\_00148.jpg



Looking west at slope damage caused by rain runoff on landward slope.

LM Start	0.72	Rating **	M	Issue No.	129
LM End	0.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.937268 °	37.937268 °
				-121.335341 °	-121.335341 °
DWR ID	DWR_RD0524_01_f_2019_129				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
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	<b>N : Not Inspected/Rated</b> 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.72	Rating **	A/W	Issue No.	154
LM End	0.73	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.937200 °	37.937100 °
				-121.335300 °	-121.335300 °
DWR ID	LMA-446				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:540					
Site Designation:LMA-446					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/10/2017					
Notes:					

Photo 1 of 3 : LEVAL\_FA\_2019\_540\_4087.jpg



LM Start	<b>0.72</b>	Rating **	A/W	Issue No.	<b>154 (cont)</b>
LM End	<b>0.73</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2019\_540\_4088.jpg



<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	<b>0.72</b>	Rating **	A/W	Issue No.	<b>154 (cont)</b>							
LM End	<b>0.73</b>	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	2017 Storm Damage		37.937200°	37.937100°								
			-121.335300°	-121.335300°								
DWR ID	LMA-446											
Comment Code												
Inspector Comment												
<p>Levee Evaluation Comments</p> <p>Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.</p> <p>Site ID No: 540</p> <p>Site Designation: LMA-446</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 8/10/2017</p> <p>Notes:</p>												

Photo 3 of 3 : LEVAL\_FA\_2019\_540\_4089.jpg



LM Start	<b>0.74</b>	Rating **	M	Issue No.	<b>934</b>							
LM End	<b>0.74</b>	Issue Type +	En	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DRAFT DWR UCIP Field Study		37.936951°	37.936951°								
			-121.335132°	-121.335132°								
DWR ID	20595											
Comment Code												
Inspector Comment												
<p>DS_ID: 20595</p> <p>FS_ID: 41463</p> <p>EP_NO: N/A</p> <p>Repair Type: Non-Urgent</p> <p>Crossing Status: Indicator Found</p> <p>UCIP Comments: Appears abandoned and should be done so properly.</p> <p>FIELD_STRUCT_DESC: 2.5-inch telephone conduit of an unknown material through the levee, 2 feet below the crown and under the channel. Conduit visible on the waterside (WS) shoulder. [Additional Reference(s): DWR Levee Log, 2004].</p> <p>FS Date: 8/16/2013</p>												

Photo 1 of 1 : UCIP\_FA\_2019\_41463\_29717.jpg



Conduit visible on WS shoulder next to bridge abutment. Cable appears to be abandoned.

<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.75	Rating **	U	Issue No.	262
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.936813 °	37.936539 °
				-121.335019 °	-121.334863 °
DWR ID	DWR_RD0524_01_s_2012_262				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation at landside toe along fence line.					

Photo 1 of 3 : FA\_2019\_RD0524\_107\_262\_20190830\_00244.jpg



Looking northeast at the landside slope.

LM Start	<b>0.75</b>	Rating **	U	Issue No.	<b>262 (cont)</b>
LM End	<b>0.78</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : FA\_2019\_RD0524\_107\_262\_20190830\_00245.jpg



Looking west at dense vegetation at landward slope and toe fall 2015.

LM Start	<b>0.75</b>	Rating **	U	Issue No.	<b>262 (cont)</b>
LM End	<b>0.78</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : FA\_2019\_RD0524\_107\_262\_20190830\_00246.jpg



Looking west at dense vegetation on landside toe. Spring 2014

**\* 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



## Levee Inspection Report By Mile - Fall 2019

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

Site ID: RD0524U01RM41.39

08/13/2019: No significant change observed.

09/13/2017: No significant change observed.

07/25/2016: No significant change observed.

06/24/2015: No significant change observed.

06/19/2014: No significant change observed.

08/13/2013: No significant change at this site.

08/07/2012: The site has been visited by boat survey. No significant change observed.

08/23/2011: The site is located immediately upstream of a Railroad bridge. Dense vegetation at the water line blocks the view of erosion.

Front view of the erosion site. Vegetation is visible.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.76	Rating **	U	Issue No.	21 (cont)	
LM End	0.77	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.936821 °	37.936821 °	
				-121.334582 °	-121.334582 °	
DWR ID	RD0524U01RM41.39					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM41.39						
08/13/2019: No significant change observed.						
09/13/2017: No significant change observed.						
07/25/2016: No significant change observed.						
06/24/2015: No significant change observed.						
06/19/2014: No significant change observed.						
08/13/2013: No significant change at this site.						
08/07/2012: The site has been visited by boat survey. No significant change observed.						
08/23/2011: The site is located immediately upstream of a Railroad bridge. Dense vegetation at the water line blocks the view of erosion.						

Photo 3 of 3 : SJR2019\_RD0524U01RM41.39\_3.jpg



Downstream view of the erosion.

LM Start	0.78	Rating **	M	Issue No.	935	
LM End	0.78	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			37.936474 °		37.936474 °
				-121.334830 °		-121.334830 °
DWR ID	20596					
Comment Code						
Inspector Comment						
DS_ID:20596 FS_ID:17571 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Large hole in pipe at WS toe. Appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 8-inch steel pipe of unknown purpose through the levee, 4 feet below the crown. Pump at the toe of the landside (LS) slope, not found 8/16/13. Siphon breaker in 24-inch corrugated metal riser unit on the waterside (WS) slope. [Additional Reference(s): USACE San Joaquin O&M Manual 7, April 1964, (HLM 0.79)]. FS Date: 8/16/2013						

Photo 1 of 2 : UCIP\_FA\_2019\_17571\_29719.jpg



Siphon breaker in 24-inch cmp riser on WS 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.78	Rating **	M	Issue No.	935 (cont)	
LM End	0.78	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.936474 °	37.936474 °	
				-121.334830 °	-121.334830 °	
DWR ID	20596					
Comment Code						
Inspector Comment						
DS_ID:20596						
FS_ID:17571						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Large hole in pipe at WS toe. Appears abandoned and should be done so properly.						
FIELD_STRUCT_DESC: 8-inch steel pipe of unknown purpose through the levee, 4 feet below the crown. Pump at the toe of the landside (LS) slope, not found 8/16/13. Siphon breaker in 24-inch corrugated metal riser unit on the waterside (WS) slope. [Additional Reference(s): USACE San Joaquin O&M Manual 7, April 1964, (HLM 0.79)].						
FS Date: 8/16/2013						

Photo 2 of 2 : UCIP\_FA\_2019\_17571\_29718.jpg



Large hole in pipe at WS toe.

LM Start	0.79	Rating **	A/W	Issue No.	155
LM End	0.80	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.936300 °	37.936200 °
				-121.334700 °	-121.334600 °
DWR ID	LMA-444				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:538					
Site Designation:LMA-444					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/10/2017					
Notes:					

Photo 1 of 3 : LEVAL\_FA\_2019\_538\_4097.jpg



<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.79	Rating **	A/W	Issue No.	155 (cont)
LM End	0.80	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.936300 °	37.936200 °
				-121.334700 °	-121.334600 °
DWR ID	LMA-444				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:538					
Site Designation:LMA-444					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/10/2017					
Notes:					

Photo 2 of 3 : LEVAL\_FA\_2019\_538\_4098.jpg

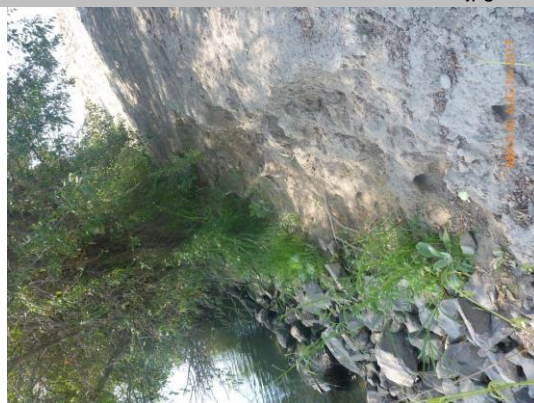


Photo 3 of 3 : LEVAL\_FA\_2019\_538\_4099.jpg



<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.83	Rating **	U	Issue No.	22
LM End	0.84	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.935930 °	37.935930 °
				-121.334133 °	-121.334133 °
DWR ID	RD0524U01RM41.44				
Comment Code					
Inspector Comment					
Site ID: RD0524U01RM41.44 08/13/2019: No significant change observed. 09/13/2017: No significant change observed. 07/25/2016: No significant change observed. 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: Site was discovered during boat survey. The dense vegetation blocks a clear view of the erosion. Size of erosion site was very roughly estimated.					

LM Start	<b>0.83</b>	Rating **	U	Issue No.	<b>22 (cont)</b>
LM End	<b>0.84</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : SJR2019\_RD0524U01RM41.44\_1.JPG



Front view of the erosion. The tree and vegetation block the view of the site.

Photo 2 of 3 : SJR2019\_RD0524U01RM41.44\_2.JPG



Close-up view of the erosion 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.83	Rating **	U	Issue No.	22 (cont)	
LM End	0.84	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.935930 °		37.935930 °
				-121.334133 °		-121.334133 °
DWR ID	RD0524U01RM41.44					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM41.44						
08/13/2019: No significant change observed.						
09/13/2017: No significant change observed.						
07/25/2016: No significant change observed.						
06/24/2015: No significant change observed.						
06/19/2014: No significant change observed.						
08/13/2013: Site was discovered during boat survey. The dense vegetation blocks a clear view of the erosion. Size of erosion site was very roughly estimated.						

Photo 3 of 3 : SJR2019\_RD0524U01RM41.44\_3.JPG



Close-up view of the site.

LM Start	0.90	Rating **	M	Issue No.	149
LM End	0.90	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.935319 °	37.935319 °
				-121.333406 °	-121.333406 °
DWR ID	DWR_RD0524_01_s_2018_149				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_149\_20190830\_00135.jpg



Looking southeast at untrimmed trees 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.90	Rating **	A/W	Issue No.	193
LM End	0.91	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.935400 °	37.935300 °
				-121.333300 °	-121.333200 °
DWR ID	LMA-443				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:537					
Site Designation:LMA-443					
Repair Type: Erosion					
Rating:Serious					
Field Date:8/10/2017					
Notes:					

Photo 1 of 3 : LEVAL\_FA\_2019\_537\_4102.jpg



LM Start	<b>0.90</b>	Rating **	A/W	Issue No.	<b>193 (cont)</b>
LM End	<b>0.91</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2019\_537\_4103.jpg



<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.90	Rating **	A/W	Issue No.	193 (cont)	
LM End	0.91	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.935400 °	37.935300 °	
				-121.333300 °	-121.333200 °	
DWR ID	LMA-443					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.						
Site ID No:537						
Site Designation:LMA-443						
Repair Type: Erosion						
Rating:Serious						
Field Date:8/10/2017						
Notes:						

Photo 3 of 3 : LEVAL\_FA\_2019\_537\_4104.jpg



LM Start	0.91	Rating **	A/W	Issue No.	187
LM End		Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.935580 °	°
				-121.333200 °	°
DWR ID	DWR_RD0524_01_s_2012_99				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:87					
Site Designation:DWR_RD0524_01_s_2012_99					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:6/7/2017					
Notes: no observable defects to levee, vegetation blocks ws toe					

Photo 1 of 3 : LEVAL\_FA\_2019\_87\_1285.jpg



<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.91	Rating **	A/W	Issue No.	187 (cont)	
LM End		Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.935580°		°
				-121.333200°		°
DWR ID	DWR_RD0524_01_s_2012_99					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:87						
Site Designation:DWR_RD0524_01_s_2012_99						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:6/7/2017						
Notes: no observable defects to levee, vegetation blocks ws toe						

LM Start	<b>0.91</b>	Rating **	A/W	Issue No.	<b>187 (cont)</b>
LM End		Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2019\_87\_1286.jpg



Photo 3 of 3 : LEVAL\_FA\_2019\_87\_1290.jpg



<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	<b>0.91</b>	Rating **	U	Issue No.	<b>29</b>
LM End	<b>0.91</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.935576°	37.935576°	
			-121.333202°	-121.333202°	
DWR ID	RD0524U01RM41.5				

**Comment Code**

**Inspector Comment**

Site ID: RD0524U01RM41.5  
 08/13/2019: No significant change observed. Signs of animal activities at the site.  
 09/13/2017: No significant change observed.  
 07/25/2016: No significant change observed.  
 06/24/2015: No significant change observed.  
 06/19/2014: No significant change observed.  
 08/13/2013: No significant change at this site.  
 08/07/2012: The site has been visited by boat survey. No significant change observed  
 08/23/2011: The erosion site is immediately downstream of the riprap protection.

LM Start	<b>0.91</b>	Rating **	U	Issue No.	<b>29 (cont)</b>
LM End	<b>0.91</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : SJR2019\_RD0524U01RM41.50\_2.jpg



Front view of the erosion.

Photo 2 of 3 : SJR2019\_RD0524U01RM41.50\_1.jpg



Close-up 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	<b>N : Not Inspected/Rated</b> 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.91	Rating **	U	Issue No.	29 (cont)	
LM End	0.91	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.935576 °	37.935576 °	
				-121.333202 °	-121.333202 °	
DWR ID	RD0524U01RM41.5					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM41.5						
08/13/2019: No significant change observed. Signs of animal activities at the site.						
09/13/2017: No significant change observed.						
07/25/2016: No significant change observed.						
06/24/2015: No significant change observed.						
06/19/2014: No significant change observed.						
08/13/2013: No significant change at this site.						
08/07/2012: The site has been visited by boat survey. No significant change observed						
08/23/2011: The erosion site is immediately downstream of the riprap protection.						

Photo 3 of 3 : SJR2019\_RD0524U01RM41.50\_3.jpg



Close-up view of the erosion.

LM Start	0.92	Rating **	M	Issue No.	158
LM End	1.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.935257 °	37.934988 °
				-121.332969 °	-121.331152 °
DWR ID	DWR_RD0524_01_s_2017_158				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Multiple large rodent holes along this stretch.					

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	<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.93	Rating **	C	Issue No.	77
LM End	1.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.935259 °	37.935049 °
				-121.332864 °	-121.331334 °
DWR ID	DWR_RD0524_01_s_2012_77				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trees have been trimmed					

No Photos

LM Start	0.97	Rating **	M	Issue No.	20
LM End	0.97	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.935181 °	37.935181 °
				-121.332125 °	-121.332125 °
DWR ID	DWR_RD0524_01_f_2017_20				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_20\_20190830\_00028.jpg



Looking southeast at untrimmed tree on waterward slope.(Fall 2018)

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

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

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.97	Rating **	M	Issue No.	936	
LM End	0.97	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.935178 °	37.935178 °	
				-121.332029 °	-121.332029 °	
DWR ID	20597					
Comment Code						
Inspector Comment						
DS_ID:20597 FS_ID:22724 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/16/2016 - Location may be at LM 0.92 (37.935267, -121.332985) rather than LM 0.974. Need to field verify (DWR UCIP - thatch) 8/16/2013 - Pipe abandoned and should be done so properly. (DWR UCIP -wwyllie) FIELD_STRUCT_DESC: *ABANDONED* 14-inch irrigation pipe of an unknown material through the levee, 6 feet below the crown. Concrete pad for pump on the waterside (WS) shoulder. No pump or other appurtenances remain. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 0.93)]. FS Date: 8/16/2013						

LM Start	<b>0.97</b>	Rating **	M	Issue No.	<b>936 (cont)</b>
LM End	<b>0.97</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2019\_22724\_38442.jpg



Concrete pad for pump mount on WS shoulder.

Photo 2 of 3 : UCIP\_FA\_2019\_22724\_38441.jpg



Pipe visible on WS 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.97	Rating **	M	Issue No.	936 (cont)	
LM End	0.97	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.935178 °	37.935178 °	
				-121.332029 °	-121.332029 °	
DWR ID	20597					
Comment Code						
Inspector Comment						
DS_ID:20597 FS_ID:22724 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/16/2016 - Location may be at LM 0.92 (37.935267, -121.332985) rather than LM 0.974. Need to field verify (DWR UCIP - thatch) 8/16/2013 - Pipe abandoned and should be done so properly. (DWR UCIP -wwylie) FIELD_STRUCT_DESC: *ABANDONED* 14-inch irrigation pipe of an unknown material through the levee, 6 feet below the crown. Concrete pad for pump on the waterside (WS) shoulder. No pump or other appurtenances remain. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 0.93)]. FS Date: 8/16/2013						

Photo 3 of 3 : UCIP\_FA\_2019\_22724\_38440.jpg



One way check valve closed on WS slope.

LM Start	0.98	Rating **	A/W	Issue No.	937
LM End	0.98	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			37.935163°	37.935163°
				-121.331887°	-121.331887°
DWR ID	20598				
Comment Code					
Inspector Comment					
DS_ID:20598 FS_ID:17575 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: *ABANDONED* 36-inch drainage pipe of an unknown material through the levee, 15 feet below the crown. Landside (LS) end is not visible. Concrete headwall at outlet on the waterside (WS) slope is visible. Pipe appears to be abandoned in place. Slide gate on the WS removed. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 0.99)]. FS Date: 8/16/2013					

Photo 1 of 2 : UCIP\_FA\_2019\_17575\_29736.jpg



Concrete headwall visible on WS 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	<b>N : Not Inspected/Rated</b> 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	0.98	Rating **	A/W	Issue No.	937 (cont)	
LM End	0.98	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			37.935163°	37.935163°	
				-121.331887°	-121.331887°	
DWR ID	20598					
Comment Code						
Inspector Comment						
DS_ID:20598						
FS_ID:17575						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: *ABANDONED* 36-inch drainage pipe of an unknown material through the levee, 15 feet below the crown. Landside (LS) end is not visible. Concrete headwall at outlet on the waterside (WS) slope is visible. Pipe appears to be abandoned in place. Slide gate on the WS removed. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 0.99)].						
FS Date: 8/16/2013						

Photo 2 of 2 : UCIP\_FA\_2019\_17575\_29735.jpg



Slide gate removed from headwall on WS slope.

LM Start	1.00	Rating **	U	Issue No.	30	
LM End	1.00	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.935410°	37.935410°	
				-121.331560°	-121.331560°	
DWR ID	RD0524U01RM41.58					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM41.58						
08/13/2019: No significant change observed.						
09/13/2017: No significant change observed.						
07/25/2016: No significant change observed.						
06/24/2015: No significant change observed.						
06/19/2014: No significant change observed.						
08/13/2013: No significant change at this site.						
08/07/2012: The erosion was discovered during the boat survey.						

Photo 1 of 3 : SJR2019\_RD0524U01RM41.58\_1.jpg



Front 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.00	Rating **	U	Issue No.	30 (cont)	
LM End	1.00	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.935410 °		37.935410 °
				-121.331560 °		-121.331560 °
DWR ID	RD0524U01RM41.58					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM41.58						
08/13/2019: No significant change observed.						
09/13/2017: No significant change observed.						
07/25/2016: No significant change observed.						
06/24/2015: No significant change observed.						
06/19/2014: No significant change observed.						
08/13/2013: No significant change at this site.						
08/07/2012: The erosion was discovered during the boat survey.						

LM Start	<b>1.00</b>	Rating **	U	Issue No.	<b>30 (cont)</b>
LM End	<b>1.00</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : SJR2019\_RD0524U01RM41.58\_3.jpg



Close-up view of the erosion.

Photo 3 of 3 : SJR2019\_RD0524U01RM41.58\_2.jpg



Front 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	<b>1.00</b>	Rating **	U	Issue No.	<b>33</b>
LM End	<b>1.00</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.935078 °	37.935078 °	
			-121.331134 °	-121.331134 °	
DWR ID	RD0524U01RM41.59				

**Comment Code**

**Inspector Comment**

Site ID: RD0524U01RM41.59  
 08/13/2019: No significant change observed.  
 09/13/2017: No significant change observed.  
 07/25/2016: No significant change observed.  
 06/24/2015: No significant change observed.  
 06/19/2014: No significant change observed.  
 08/13/2013: No significant change at this site.  
 08/07/2012: The site has been visited by boat survey. Site has been repaired, but new erosion occurred at the levee slope and immediately upstream of the repaired site.  
 08/23/2011: The site is about 500 ft downstream of bridge. The levee toe seems to be protected, but the protection is being washed away.

LM Start	<b>1.00</b>	Rating **	U	Issue No.	<b>33 (cont)</b>
LM End	<b>1.00</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : SJR2019\_RD0524U01RM41.59\_1.jpg



Front view of the site.

Photo 2 of 3 : SJR2019\_RD0524U01RM41.59\_3.jpg



Close-up 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.00	Rating **	U	Issue No.	33 (cont)	
LM End	1.00	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.935078 °	37.935078 °	
				-121.331134 °	-121.331134 °	
DWR ID	RD0524U01RM41.59					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM41.59 08/13/2019: No significant change observed. 09/13/2017: No significant change observed. 07/25/2016: No significant change observed. 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: No significant change at this site. 08/07/2012: The site has been visited by boat survey. Site has been repaired, but new erosion occurred at the levee slope and immediately upstream of the repaired site. 08/23/2011: The site is about 500 ft downstream of bridge. The levee toe seems to be protected, but the protection is being washed away.						

Photo 3 of 3 : SJR2019\_RD0524U01RM41.59\_2.jpg



Front view of the site.

LM Start	1.00	Rating **	A/W	Issue No.	198
LM End	1.01	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage		37.935100 °	37.935100 °	
			-121.331500 °	-121.331300 °	
DWR ID	LMA-442				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:536					
Site Designation:LMA-442					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/10/2017					
Notes: Appears to be previous repair site adjacent to LMA-442. Large fox den on land side					

Photo 1 of 3 : LEVAL\_FA\_2019\_536\_4109.jpg



<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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## Levee Inspection Report By Mile - Fall 2019

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

Levee Evaluation Comments  
Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.  
Site ID No: 536  
Site Designation: LMA-442  
Repair Type: Erosion  
Rating: Area of Concern  
Field Date: 8/10/2017  
Notes: Appears to be previous repair site adjacent to LMA-442. Large fox den on land side

A photograph showing a white car parked on a dirt road. In the foreground, there is a large pile of grey rocks. To the right of the road is a body of water. In the background, there is a stone wall and some trees. The date '2007-10-10 14:00:00' is visible in the bottom right corner.Page 42 of 180

# Reclamation District No. 0524 Middle Roberts Island

* 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.02	Rating **	A/W	Issue No.	208	
LM End		Issue Type +	Ob	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.934840 °		°
				-121.331190 °		°
DWR ID	188-47					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:86						
Site Designation:188-47						
Repair Type: Seepage						
Rating:						
Field Date:						
Notes:						

No Photos

LM Start	1.04	Rating **	U	Issue No.	150
LM End	1.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.934896 °	37.934896 °
				-121.330781 °	-121.330781 °
DWR ID	DWR_RD0524_01_s_2018_150				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Large rodent hole on waterward shoulder and crown of levee.					

Photo 1 of 3 : FA\_2019\_RD0524\_107\_150\_20190830\_00136.jpg



Looking at close-up view of rodent hole on waterward shoulder. (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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.04	Rating **	U	Issue No.	150 (cont)	
LM End	1.04	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.934896 °		37.934896 °
				-121.330781 °		-121.330781 °
DWR ID	DWR_RD0524_01_s_2018_150					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
Large rodent hole on waterward shoulder and crown of levee.						

Photo 2 of 3 : FA\_2019\_RD0524\_107\_150\_20190830\_00137.jpg



Looking south at large rodent hole on waterward shoulder. (Spring 2018)

LM Start	<b>1.04</b>	Rating **	U	Issue No.	<b>150 (cont)</b>
LM End	<b>1.04</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : FA\_2019\_RD0524\_107\_150\_20190830\_00138.jpg

Could Not Find Photo

Looking southeast at large rodent hole on waterward shoulder. (Spring 2018)

LM Start	1.06	Rating **	M	Issue No.	143
LM End	1.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.934811°	37.934811°
				-121.330582°	-121.330582°
DWR ID	DWR_RD0524_01_f_2019_143				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_143\_20191117\_00365.jpg



View of landside ramp caused by foot traffic. Fall 2019

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

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

**+ Issue Type**

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.06	Rating **	M	Issue No.	938	
LM End	1.06	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			37.934778 °		37.934778 °
				-121.330460 °		-121.330460 °
DWR ID	20600					
Comment Code						
Inspector Comment						
DS_ID:20600 FS_ID:18703 EP_NO: 2725B Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Given amount of rust on adjacent CMP riser, it may be appropriate to do a video inspection of this pipe. FIELD_STRUCT_DESC: 36-inch concrete encased sewer pipe through the levee, 11.5 feet below the crown. Pump in pump house on the landside (LS). Flap gate on the waterside (WS) end. Two concrete cutoff walls. Siphon breaker in 8-inch corrugated metal riser unit on the LS slope. (Permit No. 2725-B, 1959 - City of Stockton). [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 1.08)]. FS Date: 8/16/2013						

LM Start	<b>1.06</b>	Rating **	M	Issue No.	<b>938 (cont)</b>
LM End	<b>1.06</b>	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP\_FA\_2019\_18703\_31243.jpg



8-inch CMP standpipe on LS slope with pumphouse in background.

Photo 2 of 2 : UCIP\_FA\_2019\_18703\_31242.jpg



Caution sign on WS shoulder for pipe crossings.

<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.07	Rating **	M	Issue No.	939	
LM End	1.07	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			37.934750 °		37.934750 °
				-121.330405 °		-121.330405 °
DWR ID	20601					
Comment Code						
Inspector Comment						
DS_ID:20601 FS_ID:17589 EP_NO: 2725B Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: CMP riser severely corroded. Good indicator of potential condition of 48-inch pipe. Recommend Video Inspection. FIELD_STRUCT_DESC: 48-inch corrugated metal sewer line through the levee, 16 feet below the crown. Runs underneath the river and through the levee with 36-inch corrugated metal riser unit/inspection chamber on the landside (LS) shoulder. Distribution/pump house on the LS toe. (Permit No. 2725-B, 1959 - City of Stockton). [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 1.08)]. FS Date: 8/16/2013						

Photo 1 of 3 : UCIP\_FA\_2019\_17589\_29748.jpg



CMP riser for access/inspection on LS slope with distribution/pumphouse on LS toe.

LM Start	<b>1.07</b>	Rating **	M	Issue No.	<b>939 (cont)</b>
LM End	<b>1.07</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2019\_17589\_29747.jpg



Caution sign on WS shoulder.

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

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.07	Rating **	M	Issue No.	939 (cont)	
LM End	1.07	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.934750 °	37.934750 °	
				-121.330405 °	-121.330405 °	
DWR ID	20601					
Comment Code						
Inspector Comment						
DS_ID:20601 FS_ID:17589 EP_NO: 2725B Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: CMP riser severely corroded. Good indicator of potential condition of 48-inch pipe. Recommend Video Inspection. FIELD_STRUCT_DESC: 48-inch corrugated metal sewer line through the levee, 16 feet below the crown. Runs underneath the river and through the levee with 36-inch corrugated metal riser unit/inspection chamber on the landside (LS) shoulder. Distribution/pump house on the LS toe. (Permit No. 2725-B, 1959 - City of Stockton). [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 1.08)]. FS Date: 8/16/2013						

Photo 3 of 3 : UCIP\_FA\_2019\_17589\_29746.jpg



36-inch CMP riser on LS slope severely corroded with various holes along seams.

LM Start	1.07	Rating **	C	Issue No.	18
LM End	1.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.934718 °	37.934718 °
				-121.330382 °	-121.330382 °
DWR ID	DWR_RD0524_01_s_2012_18				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Slope damage extends from shoulder to middle of slope.					

No Photos

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

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.11	Rating **	M	Issue No.	132
LM End	1.11	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.934333 °	37.934333 °
				-121.329822 °	-121.329822 °
DWR ID	DWR_RD0524_01_s _ 2019_132				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Transition from bridge access to levee crown needs backfill					

No Photos

LM Start	1.12	Rating **	C	Issue No.	171
LM End	1.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.934225 °	37.933815 °
				-121.329693 °	-121.329242 °
DWR ID	DWR_RD0524_01_s _ 2015_171				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings left on waterside shoulder and slope.					

No Photos

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

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.15	Rating **	U	Issue No.	44
LM End	1.23	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.933347 °	37.933347 °
				-121.329110 °	-121.329110 °
DWR ID	RD0524U01RM41.79				
Comment Code					

**Comment Code**

**Inspector Comment**

Site ID: RD0524U01RM41.79

08/13/2019: No significant change observed.  
 09/13/2017: No significant change observed.  
 07/25/2016: No significant change observed.  
 06/24/2015: No significant change observed.  
 06/19/2014: No significant change observed.  
 08/13/2013: No significant change at this site.  
 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. Vegetation is visible at the water line. There is an exposed pipe discharge partially hanging at the mid-slope, possibly still used for discharging irrigation/runoff water. There is minimal rip rap protection along the bank, and what's left of it is no longer adequately protecting the bank.  
 9/29/2009: Site consists of a 400-foot long eroding bank with minimal vegetation and protection; the existing rip rap has sloughed, rendering it useless; note that there is an exposed section of a pipe.  
 10/18/2006: There is extensive loss of rip rap on some sections; sewage disposal pond is on the landside of the levee; there is an exposed pipe outlet "hanging" from the upper slope.

LM Start	<b>1.15</b>	Rating **	U	Issue No.	<b>44 (cont)</b>
LM End	<b>1.23</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : SJR2019\_RD0524U01RM41.79\_1.jpg



Direct view of the site.

Photo 2 of 3 : SJR2019\_RD0524U01RM41.79\_2.jpg



Direct 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>N : Not Inspected/Rated</b> 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.15	Rating **	U	Issue No.	44 (cont)	
LM End	1.23	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.933347 °	37.933347 °	
				-121.329110 °	-121.329110 °	
DWR ID	RD0524U01RM41.79					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM41.79 08/13/2019: No significant change observed. 09/13/2017: No significant change observed. 07/25/2016: No significant change observed. 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: No significant change at this site. 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. Vegetation is visible at the water line. There is an exposed pipe discharge partially hanging at the mid-slope, possibly still used for discharging irrigation/runoff water. There is minimal rip rap protection along the bank, and what's left of it is no longer adequately protecting the bank. 9/29/2009: Site consists of a 400-foot long eroding bank with minimal vegetation and protection; the existing rip rap has sloughed, rendering it useless; note that there is an exposed section of a pipe. 10/18/2006: There is extensive loss of rip rap on some sections; sewage disposal pond is on the landside of the levee; there is an exposed pipe outlet "hanging" from the upper slope.						

Photo 3 of 3 : SJR2019\_RD0524U01RM41.79\_4.jpg



Close-up view of the erosion.

LM Start	1.16	Rating **	M	Issue No.	19
LM End	1.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.933810 °	37.933810 °
				-121.329317 °	-121.329317 °
DWR ID	DWR_RD0524_01_s_2012_19				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_19\_20190830\_00027.jpg



Looking southeast at low hanging tree branches at waterside 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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## Levee Inspection Report By Mile - Fall 2019

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

Photo 1 of 1 : FA\_2019\_RD0524\_107\_915\_20190830\_00254.jpg



Looking southwest at dense veg at landward toe and berm. (Fall 2016)

Photo 1 of 3 : LEVAL\_FA\_2019\_535\_4115.jpg

A photograph showing a riverbank. On the left, a large, dense green tree stands on a slight embankment. The foreground is a sloping bank covered with dry, yellowish-brown grass and several large, dark grey rocks. To the left of the bank is a body of water, likely a river or lake. In the background, across the water, some distant structures and more trees are visible under a clear blue sky. A date stamp '2019-05-10 10:17' is printed in orange in the bottom right corner of the image.

Monday, December 23, 2019 13:51 **FINAL DATA** Page 52 of 180

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.18	Rating **	A/W	Issue No.	221 (cont)	
LM End	1.20	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.933500 °	37.933200 °	
				-121.329100 °	-121.328900 °	
DWR ID	LMA-441					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.						
Site ID No:535						
Site Designation:LMA-441						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:8/10/2017						
Notes:						

Photo 2 of 3 : LEVAL\_FA\_2019\_535\_4116.jpg



LM Start	<b>1.18</b>	Rating **	A/W	Issue No.	<b>221 (cont)</b>
LM End	<b>1.20</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : LEVAL\_FA\_2019\_535\_4117.jpg




<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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## Levee Inspection Report By Mile - Fall 2019

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

Photo 1 of 1 : FA\_2019\_RD0524\_107\_144\_20191117\_00367.jpg



View of erosion on waterside slope caused by surface runoff. Fall 2019

Photo 1 of 3 : LEVAL\_FA\_2019\_534\_4121.jpg



01/11/2019 10:10:10

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	<b>1.25</b>	Rating **	A/W	Issue No.	<b>222 (cont)</b>							
LM End	<b>1.30</b>	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	2017 Storm Damage		37.932600 °	37.931900 °								
			-121.328700 °	-121.328400 °								
DWR ID	LMA-440											
Comment Code												
Inspector Comment												
<p>Levee Evaluation Comments</p> <p>Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.</p> <p>Site ID No: 534</p> <p>Site Designation: LMA-440</p> <p>Repair Type: Erosion</p> <p>Rating: Serious</p> <p>Field Date: 8/10/2017</p> <p>Notes: site is related to, but not combined with, LMA-439 a portion of this site has been repaired.</p>												

Photo 2 of 3 : LEVAL\_FA\_2019\_534\_4122.jpg



Photo 3 of 3 : LEVAL\_FA\_2019\_534\_4126.jpg



<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.25	Rating **	M	Issue No.	263
LM End	1.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.932533 °	37.932533 °
				-121.328650 °	-121.328650 °
DWR ID	DWR_RD0524_01_s_2012_263				
Comment Code					
RA : Ramp					
Inspector Comment					
Unauthorized ramps on landside slope. Ramps were caused by vehicle traffic.					

Photo 1 of 2 : FA\_2019\_RD0524\_107\_263\_20190830\_00247.jpg



Looking northwest at unauthorized ramp on landside slope.

LM Start	<b>1.25</b>	Rating **	M	Issue No.	<b>263 (cont)</b>
LM End	<b>1.25</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA\_2019\_RD0524\_107\_263\_20190830\_00248.jpg



Looking south at unauthorized ramp on landside slope.

LM Start	1.27	Rating **	M	Issue No.	130
LM End	1.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.932347 °	37.932347 °
				-121.328588 °	-121.328588 °
DWR ID	DWR_RD0524_01_f_2019_130				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.27	Rating **	A/W	Issue No.	47
LM End	1.33	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.931858 °	37.931858 °
				-121.328300 °	-121.328300 °
DWR ID	RD0524U01RM41.92				

**Comment Code**

**Inspector Comment**

Site ID: RD0524U01RM41.92  
 08/13/2019: No significant change observed.  
 09/13/2017: The erosion has developed along the levee slope. The length of the erosion is nearly doubled comparing to the prior survey.  
 07/25/2016: No significant change observed.  
 06/24/2015: No significant change observed.  
 06/19/2014: No significant change observed.  
 08/13/2013: New signs of animal activity were found.  
 08/07/2012: The site was first reported in 2012 spring levee inspection report.

LM Start	<b>1.27</b>	Rating **	A/W	Issue No.	<b>47 (cont)</b>
LM End	<b>1.33</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : SJR2019\_RD0524U01RM41.92\_2.jpg



Downstream view of the erosion.

Photo 2 of 3 : SJR2019\_RD0524U01RM41.92\_1.jpg



Front view of the erosion.

**\* 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.27	Rating **	A/W	Issue No.	47 (cont)	
LM End	1.33	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.931858 °	37.931858 °	
				-121.328300 °	-121.328300 °	
DWR ID	RD0524U01RM41.92					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM41.92						
08/13/2019: No significant change observed.						
09/13/2017: The erosion has developed along the levee slope. The length of the erosion is nearly doubled comparing to the prior survey.						
07/25/2016: No significant change observed.						
06/24/2015: No significant change observed.						
06/19/2014: No significant change observed.						
08/13/2013: New signs of animal activity were found.						
08/07/2012: The site was first reported in 2012 spring levee inspection report.						

Photo 3 of 3 : SJR2019\_RD0524U01RM41.92\_5.jpg



Close-up view of the erosion.

LM Start	1.29	Rating **	M	Issue No.	940
LM End	1.29	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			37.931977 °	37.931977 °
				-121.328401 °	-121.328401 °
DWR ID	20602				
Comment Code					
Inspector Comment					
DS_ID:20602 FS_ID:53162 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/2/2018 Pipe appears abandoned, but both the pipe and levee appear in good condition; downgrading to Non-Urgent (D. Sanoski - DWR UCIP).11/16/2016 same as previous inspection both ends are open. This pipe does not appear in use. Need to contact owner to determine status of crossing. If the crossing is abandoned or in use, owner will need to coordinate with the CVFPB to comply with Title 23 requirements. (O. Magana - DWR UCIP)08/16/2013 Pipe appears to be open on both ends. Abandoned and should be done so properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 12-inch steel drainage pipe through the levee, 3.5 feet below the crown. Pipe is opened on the waterside (WS) and landside (LS) ends. The pump house referenced in O&M manual is missing from the LS (2013). [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 1.31)]. FS Date: 10/2/2018 1:10:16 PM					

Photo 1 of 3 : UCIP\_FA\_2019\_53162\_29862.jpg



Pipe visible and open on WS 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	<b>1.29</b>	Rating **	M	Issue No.	<b>940 (cont)</b>
LM End	<b>1.29</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP LMA Responsibility		37.931977°	37.931977°	
			-121.328401°	-121.328401°	
DWR ID	20602				

**Comment Code**

**Inspector Comment**

DS\_ID:20602  
FS\_ID:53162  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 10/2/2018 Pipe appears abandoned, but both the pipe and levee appear in good condition; downgrading to Non-Urgent (D. Sanoski - DWR UCIP). 11/16/2016 same as previous inspection both ends are open. This pipe does not appear in use. Need to contact owner to determine status of crossing. If the crossing is abandoned or in use, owner will need to coordinate with the CVFPB to comply with Title 23 requirements. (O. Magana - DWR UCIP) 08/16/2013 Pipe appears to be open on both ends. Abandoned and should be done so properly. (W. Wylie - DWR UCIP)  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 12-inch steel drainage pipe through the levee, 3.5 feet below the crown. Pipe is opened on the waterside (WS) and landside (LS) ends. The pump house referenced in O&M manual is missing from the LS (2013). [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 1.31)].  
FS Date: 10/2/2018 1:10:16 PM

LM Start	<b>1.29</b>	Rating **	M	Issue No.	<b>940 (cont)</b>
LM End	<b>1.29</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2019\_53162\_29861.jpg



Pipe open and visible on LS slope.

Photo 3 of 3 : UCIP\_FA\_2019\_53162\_29860.jpg



Pipe appears open on both ends. View from LS 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	<b>N : Not Inspected/Rated</b> 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.33	Rating **	A/W	Issue No.	225	
LM End	1.33	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.931500 °	37.931500 °	
				-121.328200 °	-121.328200 °	
DWR ID	LMA-438					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.						
Site ID No:532						
Site Designation:LMA-438						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:8/10/2017						
Notes:						

Photo 1 of 3 : LEVAL\_FA\_2019\_532\_4171.jpg



LM Start	<b>1.33</b>	Rating **	A/W	Issue No.	<b>225 (cont)</b>
LM End	<b>1.33</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2019\_532\_4173.jpg



<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	<b>1.33</b>	Rating **	A/W	Issue No.	<b>225 (cont)</b>
LM End	<b>1.33</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.931500°	37.931500°
				-121.328200°	-121.328200°
DWR ID	LMA-438				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.</p> <p>Site ID No: 532</p> <p>Site Designation: LMA-438</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 8/10/2017</p> <p>Notes:</p>					

Photo 3 of 3 : LEVAL\_FA\_2019\_532\_4174.jpg



LM Start	<b>1.33</b>	Rating **	M	Issue No.	<b>55</b>
LM End	<b>1.33</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.931510°	37.931510°
				-121.328120°	-121.328120°
DWR ID	RD0524U01RM41.95				
Comment Code					
Inspector Comment					
<p>Site ID: RD0524U01RM41.95</p> <p>08/13/2019: No significant change observed.</p> <p>09/13/2017: The erosion is located immediately upstream of a protected levee section.</p>					

Photo 1 of 2 : SJR2019\_RD0524U01RM41.95\_4.JPG



Front 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.33	Rating **	M	Issue No.	55 (cont)	
LM End	1.33	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.931510 °	37.931510 °	
				-121.328120 °	-121.328120 °	
DWR ID	RD0524U01RM41.95					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM41.95						
08/13/2019: No significant change observed.						
09/13/2017: The erosion is located immediately upstream of a protected levee section.						

Photo 2 of 2 : SJR2019\_RD0524U01RM41.95\_5.JPG



Close-up view of the erosion.

LM Start	1.39	Rating **	U	Issue No.	56
LM End	1.39	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.930575 °	37.930575 °
				-121.328090 °	-121.328090 °
DWR ID	RD0524U01RM42.03				
Comment Code					
Inspector Comment					
Site ID: RD0524U01RM42.03					
08/13/2019: No significant change observed.					
09/13/2017: No significant change observed					
07/25/2016: No significant change observed					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The site was first reported in 2012 spring levee inspection report. The site is located about 750 ft downstream of SR 4 Bridge.					

Photo 1 of 3 : SJR2019\_RD0524U01RM42.03\_1.jpg



Front view of the erosion.

* 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.39	Rating **	U	Issue No.	56 (cont)	
LM End	1.39	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.930575 °	37.930575 °	
				-121.328090 °	-121.328090 °	
DWR ID	RD0524U01RM42.03					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM42.03 08/13/2019: No significant change observed. 09/13/2017: No significant change observed 07/25/2016: No significant change observed 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The site was first reported in 2012 spring levee inspection report. The site is located about 750 ft downstream of SR 4 Bridge.						

Photo 2 of 3 : SJR2019\_RD0524U01RM42.03\_4.jpg



Front view of the erosion.

LM Start	<b>1.39</b>	Rating **	U	Issue No.	<b>56 (cont)</b>
LM End	<b>1.39</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : SJR2019\_RD0524U01RM42.03\_2.jpg



Close-up 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.43	Rating **	A/W	Issue No.	226
LM End	1.44	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.930100 °	37.929900 °
				-121.328300 °	-121.328300 °
DWR ID	LMA-436				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:530					
Site Designation:LMA-436					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/10/2017					
Notes:					

Photo 1 of 3 : LEVAL\_FA\_2019\_530\_4182.jpg



LM Start	<b>1.43</b>	Rating **	A/W	Issue No.	<b>226 (cont)</b>
LM End	<b>1.44</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2019\_530\_4184.jpg



<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.43	Rating **	A/W	Issue No.	226 (cont)	
LM End	1.44	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.930100 °	37.929900 °	
				-121.328300 °	-121.328300 °	
DWR ID	LMA-436					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.						
Site ID No:530						
Site Designation:LMA-436						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:8/10/2017						
Notes:						

Photo 3 of 3 : LEVAL\_FA\_2019\_530\_4185.jpg



LM Start	1.45	Rating **	U	Issue No.	60	
LM End	1.47	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.929650 °	37.929650 °	
				-121.328110 °	-121.328110 °	
DWR ID	RD0524U01RM42.09					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM42.09 08/13/2019: No significant change observed. 09/13/2017: No significant change observed. 07/25/2016: No significant change observed. 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: The site is located approximately 400 ft. downstream SR 4 Bridge. Dense vegetation is visible at the toe.						

Photo 1 of 3 : SJR2019\_RD0524U01RM42.09\_1.JPG



Front view of the erosion 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.45	Rating **	U	Issue No.	60 (cont)	
LM End	1.47	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.929650 °	37.929650 °	
				-121.328110 °	-121.328110 °	
DWR ID	RD0524U01RM42.09					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM42.09 08/13/2019: No significant change observed. 09/13/2017: No significant change observed. 07/25/2016: No significant change observed. 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: The site is located approximately 400 ft. downstream SR 4 Bridge. Dense vegetation is visible at the toe.						

LM Start	<b>1.45</b>	Rating **	U	Issue No.	<b>60 (cont)</b>
LM End	<b>1.47</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : SJR2019\_RD0524U01RM42.09\_2.JPG



Front view of the erosion.

Photo 3 of 3 : SJR2019\_RD0524U01RM42.09\_3.JPG



Close-up view of the erosion. Note the vegetation at the site.

\* 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.49	Rating **	U	Issue No.	916
LM End	1.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.929118 °	37.929118 °
				-121.328368 °	-121.328368 °
DWR ID	DWR_RD0524_01_s_2012_916				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Untrimmed trees and dense vegetation on landside toe.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_916\_20190830\_00255.jpg



Looking at dense trees on landward slope and toe fall 2015

LM Start	1.54	Rating **	M	Issue No.	941
LM End	1.54	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			37.928429 °	37.928429 °
				-121.328297 °	-121.328297 °
DWR ID	20605				
Comment Code					
Inspector Comment					
DS_ID:20605					
FS_ID:17798					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: No permit identified for this crossing.					
FIELD_STRUCT_DESC: Fiber optics cable crossing of an unknown material. USA marker flags over crown along alignment of gate.					
FS Date: 8/20/2013					

Photo 1 of 2 : UCIP\_FA\_2019\_17798\_29935.jpg



USAA markers along alignment at gate.

<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>N : Not Inspected/Rated</b> 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.54	Rating **	M	Issue No.	941 (cont)	
LM End	1.54	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.928429 °	37.928429 °	
				-121.328297 °	-121.328297 °	
DWR ID	20605					
Comment Code						
Inspector Comment						
DS_ID:20605						
FS_ID:17798						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: No permit identified for this crossing.						
FIELD_STRUCT_DESC: Fiber optics cable crossing of an unknown material. USA marker flags over crown along alignment of gate.						
FS Date: 8/20/2013						

Photo 2 of 2 : UCIP\_FA\_2019\_17798\_29934.jpg



USAA markers along alignment at gate.

LM Start	1.56	Rating **	U	Issue No.	62	
LM End	1.62	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.927770 °	37.927770 °	
				-121.327870 °	-121.327870 °	
DWR ID	RD0524U01RM42.2					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM42.2						
08/13/2019: No significant change observed.						
09/13/2017: No significant change observed.						
07/25/2016: No significant change observed.						
06/24/2015: No significant change observed.						
06/19/2014: 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. Trees concerned still in place.						
09/07/2010: No significant change observed on site. The concern here is the undermining of the levee toe where most of trees are. There are erosion pockets lined along the lower slope and at the base of the trees, exposing tree roots. There is minimal slope protection.						
09/29/2009: The lower slope is lined with minor erosion pockets; some tree roots are exposed; there is visible undermining of the levee toe; site is immediately upstream of the Highway 4 Bridge; the bridge is possibly causing a scour to occur, eroding the bank.						

Photo 1 of 3 : SJR2019\_RD0524U01RM42.20\_2.jpg



Front view of the site where undermining has occurred.

<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>N : Not Inspected/Rated</b> 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.56	Rating **	U	Issue No.	62 (cont)
LM End	1.62	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.927770 °	37.927770 °
				-121.327870 °	-121.327870 °
DWR ID	RD0524U01RM42.2				

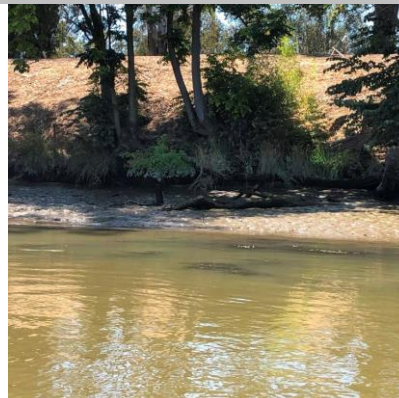
**Comment Code**

**Inspector Comment**

Site ID: RD0524U01RM42.2  
 08/13/2019: No significant change observed.  
 09/13/2017: No significant change observed.  
 07/25/2016: No significant change observed.  
 06/24/2015: No significant change observed.  
 06/19/2014: 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. Trees concerned still in place.  
 09/07/2010: No significant change observed on site. The concern here is the undermining of the levee toe where most of trees are. There are erosion pockets lined along the lower slope and at the base of the trees, exposing tree roots. There is minimal slope protection.  
 09/29/2009: The lower slope is lined with minor erosion pockets; some tree roots are exposed; there is visible undermining of the levee toe; site is immediately upstream of the Highway 4 Bridge; the bridge is possibly causing a scour to occur, eroding the bank.

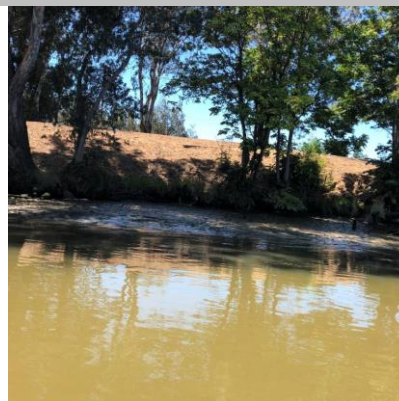
LM Start	<b>1.56</b>	Rating **	U	Issue No.	<b>62 (cont)</b>
LM End	<b>1.62</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : SJR2019\_RD0524U01RM42.20\_4.jpg



Close-up view of the erosion.

Photo 3 of 3 : SJR2019\_RD0524U01RM42.20\_5.jpg



Front 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	<b>N : Not Inspected/Rated</b> 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.58	Rating **	M	Issue No.	145
LM End	1.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.927883 °	37.927883 °
				-121.327973 °	-121.327973 °
DWR ID	DWR_RD0524_01_f_2019_145				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.62	Rating **	M	Issue No.	26
LM End	1.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.927507 °	37.927295 °
				-121.327593 °	-121.327298 °
DWR ID	DWR_RD0524_01_s_2012_26				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Several erosion sites along this reach.					

Photo 1 of 3 : FA\_2019\_RD0524\_107\_26\_20190830\_00035.jpg



Looking south at waterward erosion.

LM Start	<b>1.62</b>	Rating **	M	Issue No.	<b>26 (cont)</b>
LM End	<b>1.64</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA\_2019\_RD0524\_107\_26\_20190830\_00036.jpg



Looking east at waterward 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.62	Rating **	M	Issue No.	26 (cont)	
LM End	1.64	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.927507 °	37.927295 °	
				-121.327593 °	-121.327298 °	
DWR ID	DWR_RD0524_01_s_2012_26					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						
Several erosion sites along this reach.						

Photo 3 of 3 : FA\_2019\_RD0524\_107\_26\_20190830\_00037.jpg



Looking east at waterward erosion and depression.

LM Start	1.64	Rating **	C	Issue No.	39
LM End	1.64	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.927372°	37.927372°
				-121.327278°	-121.327278°
DWR ID	DWR_RD0524_01_s_2012_39				
Comment Code					
UR : Urban					
Inspector Comment					
Landowner constructed boat dock without permit.					

No Photos

LM Start	1.65	Rating **	M	Issue No.	207
LM End	1.71	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.927237 °	37.926621 °
				-121.327183 °	-121.326400 °
DWR ID	DWR_RD0524_01_s_2016_207				
Comment Code					
LI : Landscape Irrigation					
Inspector Comment					
Sprinklers on landside shoulder					

Photo 1 of 2 : FA\_2019\_RD0524\_107\_207\_20190830\_00187.jpg

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

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

**+ Issue Type**

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.65	Rating **	M	Issue No.	207 (cont)	
LM End	1.71	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.927237 °		37.926621 °
				-121.327183 °		-121.326400 °
DWR ID	DWR_RD0524_01_s_2016_207					
Comment Code						
LI : Landscape Irrigation						
Inspector Comment						
Sprinklers on landside shoulder						

Photo 2 of 2 : FA\_2019\_RD0524\_107\_207\_20190830\_00188.jpg



Looking south at sprinkler line and sprinklers on landward shoulder.

LM Start	1.67	Rating **	U	Issue No.	45
LM End	1.67	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.927018 °	37.927018 °
				-121.326872 °	-121.326872 °
DWR ID	DWR_RD0524_01_s_2012_45				
Comment Code					
ST : Stairway					
Inspector Comment					
Stairs and retaining wall.					

Photo 1 of 3 : FA\_2019\_RD0524\_107\_45\_20190830\_00058.jpg



Looking northeast at non-permitted concrete stairs on waterside slope.

LM Start	<b>1.67</b>	Rating **	U	Issue No.	<b>45 (cont)</b>
LM End	<b>1.67</b>	Issue Type +	En	Location *	WS

Photo 2 of 3 : FA\_2019\_RD0524\_107\_45\_20190830\_00059.jpg



Looking southwest at retaining wall connected to concrete stairs.

<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. 0524 Middle Roberts Island

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.73	Rating **	C	Issue No.	244
LM End	1.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.926395 °	37.926191 °
				-121.326125 °	-121.325952 °
DWR ID	DWR_RD0524_01_f_2017_244				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	1.73	Rating **	C	Issue No.	28
LM End	1.73	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.926322 °	37.926322 °
				-121.326115 °	-121.326115 °
DWR ID	DWR_RD0524_01_s_2012_28				
Comment Code					
PR : Prunings					
Inspector Comment					
Large pruning piles on landside slope.					

No Photos

LM Start	1.73	Rating **	U	Issue No.	245
LM End	1.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.926312 °	37.926093 °
				-121.326065 °	-121.325864 °
DWR ID	DWR_RD0524_01_f_2017_245				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_245\_20190830\_00238.jpg



Looking southeast at the landside slope.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

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

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.76	Rating **	U	Issue No.	46
LM End	1.86	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.925993 °	37.924875 °
				-121.325777 °	-121.324788 °
DWR ID	DWR_RD0524_01_s_2012_46				
Comment Code					
EQ : Equipment					
Inspector Comment					
Irrigation pipes stored at landward toe.					

Photo 1 of 2 : FA\_2019\_RD0524\_107\_46\_20191117\_00368.jpg



View of irrigation pipes being stored on landside slope and easement.  
Fall 2019

LM Start	<b>1.76</b>	Rating **	U	Issue No.	<b>46 (cont)</b>
LM End	<b>1.86</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA\_2019\_RD0524\_107\_46\_20190830\_00061.jpg



Looking southwest at irrigation pipes stored at landward slope and toe.  
(Fall 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.80	Rating **	M	Issue No.	942
LM End	1.80	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			37.925480 °	37.925480 °
				-121.325358 °	-121.325358 °
DWR ID	24032				
Comment Code					
Inspector Comment					
DS_ID:24032 FS_ID:21866 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for crossing. FIELD_STRUCT_DESC: 12-inch wrapped steel irrigation pipe through the levee, at an unknown depth. Pump, butterfly valves, vent, and siphon breaker at concrete pad 50 feet off the landside (LS) toe. Siphon breaker in 14-inch concrete standpipe on the LS shoulder. FS Date: 8/20/2013					

LM Start	<b>1.80</b>	Rating **	M	Issue No.	<b>942 (cont)</b>
LM End	<b>1.80</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2019\_21866\_37124.jpg



Pipe visible at lower left.

Photo 2 of 3 : UCIP\_FA\_2019\_21866\_37123.jpg



Pumping plant off LS 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.80	Rating **	M	Issue No.	942 (cont)	
LM End	1.80	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.925480 °	37.925480 °	
				-121.325358 °	-121.325358 °	
DWR ID	24032					
Comment Code						
Inspector Comment						
DS_ID:24032						
FS_ID:21866						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: No permit identified for crossing.						
FIELD_STRUCT_DESC: 12-inch wrapped steel irrigation pipe through the levee, at an unknown depth. Pump, butterfly valves, vent, and siphon breaker at concrete pad 50 feet off the landside (LS) toe. Siphon breaker in 14-inch concrete standpipe on the LS shoulder.						
FS Date: 8/20/2013						

Photo 3 of 3 : UCIP\_FA\_2019\_21866\_37122.jpg



Pumping plant with siphon breaker, vents, and butterfly valves.

LM Start	1.81	Rating **	U	Issue No.	148
LM End	1.81	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.925457 °	37.925457 °
				-121.325332 °	-121.325332 °
DWR ID	DWR_RD0524_01_f_2019_148				
Comment Code					
BU : Building					
Inspector Comment					
Pump house on waterside shoulder. Fall 2019					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_148\_20191117\_00369.jpg



View of pump house on waterside shoulder. Fall 2019

<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>N : Not Inspected/Rated</b> 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.81	Rating **	M	Issue No.	943	
LM End	1.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			37.925429 °		37.925429 °
				-121.325323 °		-121.325323 °
DWR ID	20609					
Comment Code						
Inspector Comment						
DS_ID:20609						
FS_ID:17847						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe appears abandoned and if so should be done so properly.						
FIELD_STRUCT_DESC: 14-inch irrigation pipe of an unknown material through the levee, 20 feet below the crown. 2 pumps and gate valves discharge into surge tank in pump house on the waterside (WS) slope. Concrete distribution box removed from the WS slope. Abandoned 36-inch diameter concrete standpipe on the landside (LS) toe next to service pole. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 1.83)].						
FS Date: 8/20/2013						

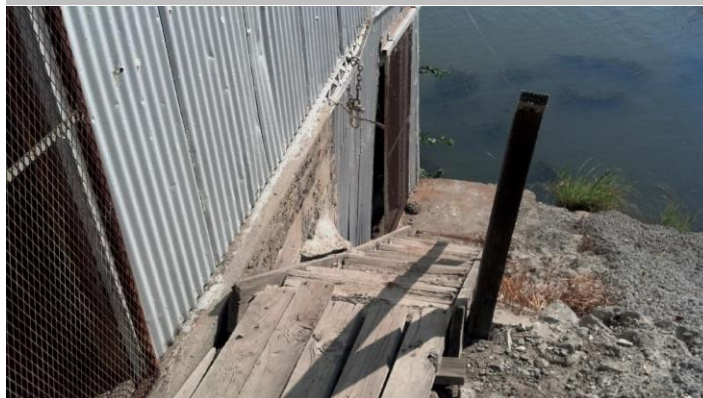
LM Start	<b>1.81</b>	Rating **	M	Issue No.	<b>943 (cont)</b>
LM End	<b>1.81</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2019\_17847\_29962.jpg



Pipes and pumphouse on WS slope.

Photo 2 of 3 : UCIP\_FA\_2019\_17847\_29961.jpg



Steps to pump on WS 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.81	Rating **	M	Issue No.	943 (cont)	
LM End	1.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			37.925429 °		37.925429 °
				-121.325323 °		-121.325323 °
DWR ID	20609					
Comment Code						
Inspector Comment						
DS_ID:20609						
FS_ID:17847						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe appears abandoned and if so should be done so properly.						
FIELD_STRUCT_DESC: 14-inch irrigation pipe of an unknown material through the levee, 20 feet below the crown. 2 pumps and gate valves discharge into surge tank in pump house on the waterside (WS) slope. Concrete distribution box removed from the WS slope. Abandoned 36-inch diameter concrete standpipe on the landside (LS) toe next to service pole. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 1.83)].						
FS Date: 8/20/2013						

Photo 3 of 3 : UCIP\_FA\_2019\_17847\_29960.jpg



Pipes at connection to concrete surge box on WS inside pumphouse.

LM Start	1.81	Rating **	M	Issue No.	944	
LM End	1.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.925431 °	37.925431 °	
				-121.325310 °	-121.325310 °	
DWR ID	24033					
Comment Code						
Inspector Comment						
DS_ID:24033						
FS_ID:21865						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipes appear abandoned and should be removed from levee.						
FIELD_STRUCT_DESC: *ABANDONED* One 1-inch and two 0.75-inch polyvinyl chloride conduits of an unknown purpose through the levee, 6 inches below the crown.						
FS Date: 8/20/2013						

Photo 1 of 2 : UCIP\_FA\_2019\_21865\_37121.jpg



Pipes visible on WS shoulder directly in front of 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.81	Rating **	M	Issue No.	944 (cont)	
LM End	1.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.925431 °	37.925431 °	
				-121.325310 °	-121.325310 °	
DWR ID	24033					
Comment Code						
Inspector Comment						
DS_ID:24033						
FS_ID:21865						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipes appear abandoned and should be removed from levee.						
FIELD_STRUCT_DESC: *ABANDONED* One 1-inch and two 0.75-inch polyvinyl chloride conduits of an unknown purpose through the levee, 6 inches below the crown.						
FS Date: 8/20/2013						

Photo 2 of 2 : UCIP\_FA\_2019\_21865\_37120.jpg



Pipes visible on LS slope.

LM Start	1.90	Rating **	U	Issue No.	78
LM End	1.94	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.924364 °	37.923805 °
				-121.324473 °	-121.324238 °
DWR ID	DWR_RD0524_01_s_2012_78				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Unauthorized ice-plant on LS slope hinders ability to inspect landside slope.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_78\_20190830\_00099.jpg



Looking southwest at landscaping on landside slope. (Spring 2012)

\* 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.94	Rating **	M	Issue No.	246
LM End	1.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.923692 °	37.923692 °
				-121.324225 °	-121.324225 °
DWR ID	DWR_RD0524_01_f_2017_246				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.99	Rating **	M	Issue No.	945
LM End	1.99	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			37.923022 °	37.923022 °
				-121.323953 °	-121.323953 °
DWR ID	24035				
Comment Code					
Inspector Comment					
DS_ID:24035 FS_ID:21872 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 3-inch polyvinyl chloride domestic non-potable water line through the levee, at an unknown depth. Pump on concrete pad at the waterside (WS) toe. FS Date: 8/20/2013					

Photo 1 of 3 : UCIP\_FA\_2019\_21872\_37128.jpg



Pump on concrete pad at WS 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	1.99	Rating **	M	Issue No.	945 (cont)
LM End	1.99	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			37.923022°	37.923022°
				-121.323953°	-121.323953°
DWR ID	24035				
Comment Code					
Inspector Comment					
DS_ID:24035 FS_ID:21872 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 3-inch polyvinyl chloride domestic non-potable water line through the levee, at an unknown depth. Pump on concrete pad at the waterside (WS) toe. FS Date: 8/20/2013					

Photo 2 of 3 : UCIP\_FA\_2019\_21872\_37127.jpg



PVC pipe visible on LS toe.

LM Start	<b>1.99</b>	Rating **	M	Issue No.	<b>945 (cont)</b>
LM End	<b>1.99</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_FA\_2019\_21872\_37126.jpg



Pump and pipe visible on WS 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**

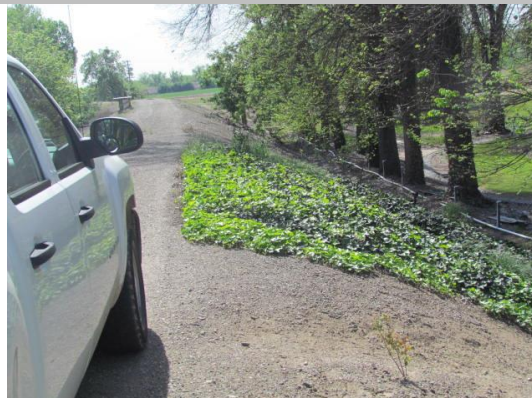
**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.00	Rating **	U	Issue No.	106
LM End	2.03	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.922923 °	37.922519 °
				-121.323837 °	-121.323534 °
DWR ID	DWR_RD0524_01_s_2012_106				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_106\_20190830\_00126.jpg



Looking southwest at ground cover on landward slope.

LM Start	2.01	Rating **	M	Issue No.	182
LM End	2.04	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.922837 °	37.922514 °
				-121.323785 °	-121.323504 °
DWR ID	DWR_RD0524_01_s_2014_182				
Comment Code					
DT : Ditch					
Inspector Comment					
Old irrigation ditch at the landside toe should be removed.					

Photo 1 of 2 : FA\_2019\_RD0524\_107\_182\_20190830\_00162.jpg



Looking northwest at an old irrigation ditch at landward toe.

LM Start	<b>2.01</b>	Rating **	M	Issue No.	<b>182 (cont)</b>
LM End	<b>2.04</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA\_2019\_RD0524\_107\_182\_20190830\_00163.jpg



Looking southwest at an old irrigation ditch at landward toe.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

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

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.03	Rating **	M	Issue No.	946	
LM End	2.03	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.922535 °	37.922535 °	
				-121.323568 °	-121.323568 °	
DWR ID	24036					
Comment Code						
Inspector Comment						
DS_ID:24036						
FS_ID:21883						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe abandoned and should be done so properly.						
Holes visible throughout exposed pipe.						
FIELD_STRUCT_DESC: 5-inch wrapped steel irrigation pipe through the levee, 6 feet below the crown. No pump or other appurtenances found.						
FS Date: 8/20/2013						

Photo 1 of 2 : UCIP\_FA\_2019\_21883\_37134.jpg



Pipe visible on WS slope.

LM Start	<b>2.03</b>	Rating **	M	Issue No.	<b>946 (cont)</b>
LM End	<b>2.03</b>	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP\_FA\_2019\_21883\_37133.jpg



Holes in pipe along exposed side of pipe at WS 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.07	Rating **	M	Issue No.	947
LM End	2.07	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			37.922080°	37.922080°
				-121.323118°	-121.323118°
DWR ID	24038				
Comment Code					
Inspector Comment					
DS_ID:24038 FS_ID:21895 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee, at an unknown depth. Vent, meter, butterfly valve, and pump at pump house on the waterside (WS) slope. FS Date: 8/20/2013					

Photo 1 of 3 : UCIP\_FA\_2019\_21895\_37142.jpg



Steel irrigation line visible in front of tank to right of powerpole off LS toe.

LM Start	<b>2.07</b>	Rating **	M	Issue No.	<b>947 (cont)</b>
LM End	<b>2.07</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2019\_21895\_37141.jpg



Irrigation line visible on side of 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.07	Rating **	M	Issue No.	947 (cont)	
LM End	2.07	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.922080 °	37.922080 °	
				-121.323118 °	-121.323118 °	
DWR ID	24038					
Comment Code						
Inspector Comment						
DS_ID:24038						
FS_ID:21895						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: No permit identified for this crossing.						
FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee, at an unknown depth. Vent, meter, butterfly valve, and pump at pump house on the waterside (WS) slope.						
FS Date: 8/20/2013						

Photo 3 of 3 : UCIP\_FA\_2019\_21895\_37140.jpg



Pump and butterfly valve inside pumphouse on WS berm.

LM Start	2.07	Rating **	M	Issue No.	948	
LM End	2.07	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			37.922064 °		37.922064 °
				-121.323084 °		-121.323084 °
DWR ID	20612					
Comment Code						
Inspector Comment						
DS_ID:20612						
FS_ID:17944						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Soil excavated from cover over pipe on WS next to concrete riser. May indicate a leak or other problem.						
FIELD_STRUCT_DESC: 20-inch steel irrigation pipe through the levee, 15 feet below the crown. Pump in pump house on the waterside (WS) slope. Slide gate in 4-foot diameter concrete standpipe on the WS slope with secondary concrete standpipe. Polyvinyl chloride standpipe visible 350 feet off the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 2.10)].						
FS Date: 8/20/2013						

Photo 1 of 3 : UCIP\_FA\_2019\_17944\_30045.jpg



Slide gate in concrete riser with secondary concrete riser in foreground. Pump house in background.

<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>N : Not Inspected/Rated</b> 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.07	Rating **	M	Issue No.	948 (cont)	
LM End	2.07	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			37.922064 °		37.922064 °
				-121.323084 °		-121.323084 °
DWR ID	20612					
Comment Code						
Inspector Comment						
DS_ID:20612						
FS_ID:17944						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Soil excavated from cover over pipe on WS next to concrete riser. May indicate a leak or other problem.						
FIELD_STRUCT_DESC: 20-inch steel irrigation pipe through the levee, 15 feet below the crown. Pump in pump house on the waterside (WS) slope. Slide gate in 4-foot diameter concrete standpipe on the WS slope with secondary concrete standpipe. Polyvinyl chloride standpipe visible 350 feet off the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 2.10)].						
FS Date: 8/20/2013						

LM Start	<b>2.07</b>	Rating **	M	Issue No.	<b>948 (cont)</b>
LM End	<b>2.07</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2019\_17944\_30044.jpg



Pump and pipe inside pumphouse.

Photo 3 of 3 : UCIP\_FA\_2019\_17944\_30043.jpg



Hole over pipe next to 4-foot diameter concrete standpipe on WS 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.12	Rating **	M	Issue No.	247
LM End	2.12	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.921664 °	37.921664 °
				-121.322499 °	-121.322499 °
DWR ID	DWR_RD0524_01_f_2017_247				
Comment Code					
ST : Stairway					
Inspector Comment					
Landowner installed rubber tires for a stairway on landside slope.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_247\_20191117\_00370.jpg



View of rubber tires being used as stairs on landside slope. Fall 2019

LM Start	2.17	Rating **	M	Issue No.	151
LM End	2.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.921138 °	37.921138 °
				-121.321668 °	-121.321668 °
DWR ID	DWR_RD0524_01_f_2019_151				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

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

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.19	Rating **	C	Issue No.	90
LM End	2.19	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.920992 °	37.920992 °
				-121.321370 °	-121.321370 °
DWR ID	RD0524U01RM42.79				
Comment Code					
Inspector Comment					
Site ID: RD0524U01RM42.79 10/29/2019: No new erosion was found at the repaired site. 09/13/2017: This erosion site has been repaired prior to this survey. 07/25/2016: No significant change observed. 06/24/2015: No significant change observed. 07/22/2014: The erosion has increased in size. 08/13/2013: No significant change observed. Slightly more vegetation was visible. 08/07/2012: The site was first reported in 2012 spring levee inspection report.					

No Photos

LM Start	2.24	Rating **	C	Issue No.	92
LM End	2.27	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.920650 °	37.920650 °
				-121.320370 °	-121.320370 °
DWR ID	RD0524U01RM42.84				
Comment Code					
Inspector Comment					
Site ID: RD0524U01RM42.84					
10/29/2019: No new erosion was found at the repaired site.					
09/13/2017: This erosion site has been repaired.					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: An irrigation pipe is on site.					

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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.27	Rating **	U	Issue No.	152
LM End	2.27	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.920357°	37.920357°
				-121.320257°	-121.320257°
DWR ID	DWR_RD0524_01_f_2019_152				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_152\_20191117\_00371.jpg



View of prunings on landside slope. Fall 2019

LM Start	2.27	Rating **	U	Issue No.	32
LM End	2.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.920372°	37.920167°
				-121.320230°	-121.319890°
DWR ID	DWR_RD0524_01_s_2012_32				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Dense elderberry bushes on landside slope and toe.					

No Photos

LM Start	2.27	Rating **	U	Issue No.	203
LM End	2.27	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.920327 °	37.920327 °
				-121.320175 °	-121.320175 °
DWR ID	DWR_RD0524_01_f_2016_203				
Comment Code					
PR : Prunings					
Inspector Comment					
Large pruning pile on landside slope and toe.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_203\_20190830\_00186.jpg



Looking west at pruning pile on landside slope.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

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

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.30	Rating **	C	Issue No.	93
LM End	2.30	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.920150 °	37.920150 °
				-121.319700 °	-121.319700 °
DWR ID	RD0524U01RM42.9				
Comment Code					
Inspector Comment					
Site ID: RD0524U01RM42.9					
08/13/2019: This erosion has been repaired.					
09/13/2017: The erosion is located immediately upstream of a repaired levee section.					

No Photos

LM Start	2.33	Rating **	M	Issue No.	133
LM End	2.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.919743 °	37.919743 °
				-121.319625 °	-121.319625 °
DWR ID	DWR_RD0524_01_s_2019_133				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes near landside shoulder					

No Photos

LM Start	2.38	Rating **	M	Issue No.	184
LM End	2.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.919036 °	37.919036 °
				-121.319969 °	-121.319969 °
DWR ID	DWR_RD0524_01_s_2014_184				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.46	Rating **	C	Issue No.	134
LM End	2.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.918420°	37.918420°
				-121.321210°	-121.321210°
DWR ID	DWR_RD0524_01_s_2019_134				
Comment Code					
DE : Debris					
Inspector Comment					
Tires on landside shoulder have been removed. Fall 2019					

No Photos

LM Start	2.47	Rating **	M	Issue No.	249
LM End	2.47	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.918386 °	37.918386 °
				-121.321444 °	-121.321444 °
DWR ID	DWR_RD0524_01_f_2017_249				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	2.49	Rating **	U	Issue No.	37
LM End	2.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.918345 °	37.918302 °
				-121.321765 °	-121.321923 °
DWR ID	DWR_RD0524_01_s_2012_37				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.50	Rating **	U	Issue No.	38
LM End	2.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.918287°	37.918287°
				-121.321980°	-121.321980°
DWR ID	DWR_RD0524_01_s_2012_38				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	2.53	Rating **	U	Issue No.	40
LM End	2.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.918047 °	37.917498 °
				-121.322415 °	-121.322797 °
DWR ID	DWR_RD0524_01_s_2012_40				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	2.56	Rating **	U	Issue No.	42
LM End	2.56	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.917673 °	37.917673 °
				-121.322718 °	-121.322718 °
DWR ID	DWR_RD0524_01_s_2012_42				
Comment Code					
BU : Building					
Inspector Comment					
Animal pens on landside slope and toe.					

Photo 1 of 2 : FA\_2019\_RD0524\_107\_42\_20190830\_00052.jpg



Looking west at animal pens on landside toe. (Fall 2012)

**\* 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.56	Rating **	U	Issue No.	42 (cont)
LM End	2.56	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.917673 °	37.917673 °
				-121.322718 °	-121.322718 °
DWR ID	DWR_RD0524_01_s_2012_42				
Comment Code					
BU : Building					
Inspector Comment					
Animal pens on landside slope and toe.					

Photo 2 of 2 : FA\_2019\_RD0524\_107\_42\_20190830\_00053.jpg



Looking at animal pens on landside slope and toe.

LM Start	2.57	Rating **	M	Issue No.	12
LM End	2.57	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.917538 °	37.917538 °
				-121.322757 °	-121.322757 °
DWR ID	DWR_RD0524_01_f_2012_12				
Comment Code					
PO : Pole					
Inspector Comment					
Old fence poles on landside shoulder and slope should be removed. 4/3/17: Old post removed, a new larger post replacing the old post					

No Photos

LM Start	2.58	Rating **	M	Issue No.	7
LM End	2.58	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.917431 °	37.917431 °
				-121.322780 °	-121.322780 °
DWR ID	DWR_RD0524_01_f_2012_7				
Comment Code					
RA : Ramp					
Inspector Comment					
Ramp on landside providing access to land owner.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_7\_20190830\_00012.jpg



Looking southeast at unauthorized ramp on waterside 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	<b>2.58</b>	Rating **	M	Issue No.	<b>949</b>
LM End	<b>2.58</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		37.917365°	37.917365°	
			-121.322779°	-121.322779°	
DWR ID	24040				

**Comment Code**

**Inspector Comment**

DS\_ID:24040  
FS\_ID:21935  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Need to determine type of abandonment for pipe at this location.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* Pump pad on the landside (LS) shoulder with 4-foot by 9-foot brick distribution box on the waterside (WS) slope. No pipe visible. 4-foot by 9-foot brick distribution box on the LS toe.  
FS Date: 8/20/2013

LM Start	<b>2.58</b>	Rating **	M	Issue No.	<b>949 (cont)</b>
LM End	<b>2.58</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2019\_21935\_37162.jpg



Foundation for pump with distribution box on WS shoulder.

Photo 2 of 3 : UCIP\_FA\_2019\_21935\_37161.jpg



Distribution box on LS 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	<b>N : Not Inspected/Rated</b> 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.58	Rating **	M	Issue No.	949 (cont)	
LM End	2.58	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.917365 °	37.917365 °	
				-121.322779 °	-121.322779 °	
DWR ID	24040					
Comment Code						
Inspector Comment						
DS_ID:24040						
FS_ID:21935						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to determine type of abandonment for pipe at this location.						
FIELD_STRUCT_DESC: *ABANDONED* Pump pad on the landside (LS) shoulder with 4-foot by 9-foot brick distribution box on the waterside (WS) slope. No pipe visible. 4-foot by 9-foot brick distribution box on the LS toe.						
FS Date: 8/20/2013						

Photo 3 of 3 : UCIP\_FA\_2019\_21935\_37160.jpg



Distribution box on LS toe.

LM Start	2.60	Rating **	M	Issue No.	185
LM End	2.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.917152°	37.916807°
				-121.322582°	-121.322069°
DWR ID	DWR_RD0524_01_s_2014_185				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_185\_20190830\_00164.jpg



Looking northwest at untrimmed trees on landward slope and toe.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

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

**+ Issue Type**

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.64	Rating **	U	Issue No.	43
LM End	2.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.916780 °	37.916780 °
				-121.322095 °	-121.322095 °
DWR ID	DWR_RD0524_01_s_2012_43				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Dense elderberry on landside shoulder, slope, and toe.					

No Photos

LM Start	2.72	Rating **	M	Issue No.	264
LM End	2.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.915698 °	37.915304 °
				-121.322498 °	-121.322763 °
DWR ID	DWR_RD0524_01_s_2012_264				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Untrimmed trees along landside slope and toe. Additionally, trim limbs overhanging crown road 12 feet above ground level.					

Photo 1 of 2 : FA\_2019\_RD0524\_107\_264\_20190830\_00249.jpg



Looking south at untrimmed trees on landward slope.

LM Start	<b>2.72</b>	Rating **	M	Issue No.	<b>264 (cont)</b>
LM End	<b>2.76</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA\_2019\_RD0524\_107\_264\_20190830\_00250.jpg



Looking north at dense trees overhanging levee crown.

\* 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	<b>2.73</b>	Rating **	M	Issue No.	<b>950</b>
LM End	<b>2.73</b>	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			37.915698 °	37.915698 °
				-121.322501 °	-121.322501 °

DWR ID 20616

**Comment Code**

**Inspector Comment**

DS\_ID:20616  
 FS\_ID:18085  
 EP\_NO: N/A  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: No permit identified for crossing. Unknown use.  
 Pipe should be removed.  
 FIELD\_STRUCT\_DESC: 3-inch galvanized iron pipe of an unknown purpose through the levee, 0.3 feet below the crown. Valve on the landside (LS) shoulder. [Additional Reference(s): DWR Levee Log, 2004].  
 FS Date: 8/20/2013 3:28:19 PM

LM Start	<b>2.73</b>	Rating **	M	Issue No.	<b>950 (cont)</b>
LM End	<b>2.73</b>	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP\_FA\_2019\_18085\_30191.jpg



Pipe and vent visible on LS slope.

Photo 2 of 2 : UCIP\_FA\_2019\_18085\_30190.jpg



Pipe visible on WS 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	<b>N : Not Inspected/Rated</b> 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.75	Rating **	M	Issue No.	146
LM End	2.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.915358°	37.915358°
				-121.322768°	-121.322768°
DWR ID	DWR_RD0524_01_f_2018_146				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	2.77	Rating **	U	Issue No.	219
LM End	2.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.915195 °	37.915052 °
				-121.322930 °	-121.323430 °
DWR ID	DWR_RD0524_01_f_2016_219				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several large rodent holes on landside slope.					

Photo 1 of 2 : FA\_2019\_RD0524\_107\_219\_20190830\_00194.jpg



Looking south at several rodent holes on landward slope.

LM Start	<b>2.77</b>	Rating **	U	Issue No.	<b>219 (cont)</b>
LM End	<b>2.80</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA\_2019\_RD0524\_107\_219\_20190830\_00195.jpg



Looking at typical rodent hole on waterward 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.80	Rating **	U	Issue No.	48
LM End	2.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.915022 °	37.915022 °
				-121.323443 °	-121.323443 °
DWR ID	DWR_RD0524_01_s_2012_48				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	2.84	Rating **	U	Issue No.	135
LM End	2.84	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.914612 °	37.914612 °
				-121.324073 °	-121.324073 °
DWR ID	DWR_RD0524_01_s_2019_135				
Comment Code					
ST : Stairway					
Inspector Comment					
Stairway on landside and waterside slope					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_135\_20191117\_00372.jpg



View of stairs on waterside slope. Fall 2019

LM Start	2.85	Rating **	M	Issue No.	156
LM End	2.85	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.914509 °	37.914509 °
				-121.324165 °	-121.324165 °
DWR ID	DWR_RD0524_01_f_2019_156				
Comment Code					
PR : Prunings					
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	<b>N : Not Inspected/Rated</b> 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.86	Rating **	U	Issue No.	49
LM End	2.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.914427 °	37.914427 °
				-121.324198 °	-121.324198 °
DWR ID	DWR_RD0524_01_s_2012_49				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	2.91	Rating **	U	Issue No.	161
LM End	2.91	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.913733 °	37.913733 °
				-121.324398 °	-121.324398 °
DWR ID	DWR_RD0524_01_s_2017_161				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_161\_20190830\_00150.jpg



Looking east at large tree stump on waterward shoulder.

LM Start	2.92	Rating **	M	Issue No.	50
LM End	2.92	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.913528 °	37.913528 °
				-121.324434 °	-121.324434 °
DWR ID	DWR_RD0524_01_s_2012_50				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_50\_20190830\_00066.jpg



Looking southwest at prunings on landside slope.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

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

**+ Issue Type**

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.93	Rating **	U	Issue No.	51
LM End	2.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.913415 °	37.913389 °
				-121.324503 °	-121.324440 °
DWR ID	DWR_RD0524_01_s_2012_51				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed trees on landside slope and toe.					

Photo 1 of 2 : FA\_2019\_RD0524\_107\_51\_20190830\_00067.jpg



Looking south at dense trees on landward slope fall 2015

LM Start	<b>2.93</b>	Rating **	U	Issue No.	<b>51 (cont)</b>
LM End	<b>2.93</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA\_2019\_RD0524\_107\_51\_20190830\_00068.jpg



Looking south at dense trees on landward slope spring 2015

LM Start	2.94	Rating **	M	Issue No.	210
LM End	2.94	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.913198 °	37.913198 °
				-121.324490 °	-121.324490 °
DWR ID	DWR_RD0524_01_s_2016_210				
Comment Code					
GA : Garbage					
Inspector Comment					
Old containers at landside toe.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_210\_20190830\_00189.jpg



Looking west at abandoned containers at landward toe.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

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

**+ Issue Type**

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.95	Rating **	M	Issue No.	951	
LM End	2.95	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			37.913101 °	37.913101 °	
				-121.324500 °	-121.324500 °	
DWR ID	20617					
Comment Code						
Inspector Comment						
DS_ID:20617 FS_ID:18089 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Review crossing with inspector as records indicate that this should be an 8-inch pipe through levee 3.0 feet below crown, pump on landward side. Siphon breaker on the waterward slope. Originally included in the 1964 O&M manual. FIELD_STRUCT_DESC: 16-inch wrapped steel storm discharge pipe through the levee, 1.5 feet below the crown. Pump on steel pile structure at drainage canal off landside (LS) toe. [Additional Reference(s): USACE San Joaquin O&M Manual 7, April 1964, (HLM 2.99) 9-inch pipe listed]. FS Date: 8/20/2013						

LM Start	<b>2.95</b>	Rating **	M	Issue No.	<b>951 (cont)</b>
LM End	<b>2.95</b>	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP\_FA\_2019\_18089\_30198.jpg



PVC wrapped pipe and siphon breaker visible on WS slope.

Photo 2 of 2 : UCIP\_FA\_2019\_18089\_30197.jpg



Pipe, pump, power pole, and meter visible off LS toe.

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

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.96	Rating **	C	Issue No.	128
LM End	2.96	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.913010 °	37.913010 °
				-121.324490 °	-121.324490 °
DWR ID	RD0524U01RM43.52				
Comment Code					
Inspector Comment					
Site ID: RD0524U01RM43.52 08/13/2019: This erosion has been repaired. 09/13/2017: A new pocket erosion observed at the erosion site, next to an irrigation pipe. 07/25/2016: No significant change observed. 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The site was first reported in 2012 spring levee inspection report.					

No Photos

LM Start	2.96	Rating **	A/W	Issue No.	227
LM End		Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.912900 °	°
				-121.324400 °	°
DWR ID	LMA-292				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion. Based upon levee inspections, it was determined the waterside levee slopes were eroding, deteriorating and degrading in concave pocket sections at various locations along this levee reach. The eroded levee sections need to be restored back to design standards to prevent further deterioration of the damaged levee sections.					
Site ID No:465					
Site Designation:LMA-292					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/26/2017					
Notes: Lower priority because erosion is within rip rap, is only present on lower slope and is not too deep. Levee is narrow here.					

Photo 1 of 2 : LEVAL\_FA\_2019\_465\_2231.jpg



<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.96	Rating **	A/W	Issue No.	227 (cont)	
LM End		Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			37.912900 °	°	
				-121.324400 °	°	
DWR ID	LMA-292					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Slope protection repairs are needed along the waterside slope due to erosion. Based upon levee inspections, it was determined the waterside levee slopes were eroding, deteriorating and degrading in concave pocket sections at various locations along this levee reach. The eroded levee sections need to be restored back to design standards to prevent further deterioration of the damaged levee sections.						
Site ID No:465						
Site Designation:LMA-292						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:7/26/2017						
Notes: Lower priority because erosion is within rip rap, is only present on lower slope and is not too deep. Levee is narrow here.						

Photo 2 of 2 : LEVAL\_FA\_2019\_465\_2232.jpg



LM Start	2.99	Rating **	U	Issue No.	924
LM End	3.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.912572 °	37.911834 °
				-121.324589 °	-121.324733 °
DWR ID	DWR_RD0524_01_s_2012_924				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_924\_20191117\_00374.jpg



View of large rodent holes on landside slope. Fall 2019

<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.99	Rating **	A/W	Issue No.	228
LM End	3.01	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.912500 °	37.912300 °
				-121.324700 °	-121.324700 °
DWR ID	LMA-435				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:529					
Site Designation:LMA-435					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/10/2017					
Notes:					

Photo 1 of 3 : LEVAL\_FA\_2019\_529\_4187.jpg



LM Start	<b>2.99</b>	Rating **	A/W	Issue No.	<b>228 (cont)</b>
LM End	<b>3.01</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2019\_529\_4188.jpg



<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	2.99	Rating **	A/W	Issue No.	228 (cont)	
LM End	3.01	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.912500 °	37.912300 °	
				-121.324700 °	-121.324700 °	
DWR ID	LMA-435					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.						
Site ID No:529						
Site Designation:LMA-435						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:8/10/2017						
Notes:						

Photo 3 of 3 : LEVAL\_FA\_2019\_529\_4189.jpg



LM Start	3.07	Rating **	M	Issue No.	925
LM End	3.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.911382 °	37.908602 °
				-121.324928 °	-121.325395 °
DWR ID	DWR_RD0524_01_s_2012_925				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes on levee slopes.					

Photo 1 of 3 : FA\_2019\_RD0524\_107\_925\_20190830\_00256.jpg



Looking southwest at the landside 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	3.07	Rating **	M	Issue No.	925 (cont)
LM End	3.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.911382 °	37.908602 °
				-121.324928 °	-121.325395 °
DWR ID	DWR_RD0524_01_s_2012_925				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes on levee slopes.					

Photo 2 of 3 : FA\_2019\_RD0524\_107\_925\_20190830\_00257.jpg



Looking at typical view of rodent hole with this section fall 2015.

LM Start	<b>3.07</b>	Rating **	M	Issue No.	<b>925 (cont)</b>
LM End	<b>3.27</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : FA\_2019\_RD0524\_107\_925\_20190830\_00258.jpg



Looking at typical rodent holes on landward slope along this reach.

LM Start	3.10	Rating **	C	Issue No.	169
LM End	3.10	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.911070 °	37.911070 °
				-121.325090 °	-121.325090 °
DWR ID	DWR_RD0524_01_f_2015_169				
Comment Code					
GA : Garbage					
Inspector Comment					
Rubber tire stockpile at landside toe has been removed. Fall 2019					

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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	3.11	Rating **	M	Issue No.	212
LM End	3.27	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.910876 °	37.908558 °
				-121.325181 °	-121.325394 °
DWR ID	DWR_RD0524_01_s_2016_212				
Comment Code					
DT : Ditch					
Inspector Comment					
Shallow drainage ditch at landside toe.					

Photo 1 of 2 : FA\_2019\_RD0524\_107\_212\_20190830\_00191.jpg



Looking northwest at southend of ditch at landward toe.

LM Start	<b>3.11</b>	Rating **	M	Issue No.	<b>212 (cont)</b>
LM End	<b>3.27</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA\_2019\_RD0524\_107\_212\_20190830\_00192.jpg



Looking southwest at northend of ditch at landward toe.

LM Start	3.18	Rating **	U	Issue No.	211
LM End	3.18	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.909945 °	37.909945 °
				-121.325543 °	-121.325543 °
DWR ID	DWR_RD0524_01_s_2016_211				
Comment Code					
RA : Ramp					
Inspector Comment					
Unauthorized ramp on landside slope.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_211\_20190830\_00190.jpg



Looking northwest at unauthorized ramp on landward 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

## Levee Inspection Report By Mile - Fall 2019

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

Photo 1 of 2 : LEVAL\_FA\_2019\_466\_2228.jpg



Photo 2 of 2 : LEVAL\_FA\_2019\_466\_2229.jpg



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

**Flood Control Project Maintenance  
Levee Inspections**

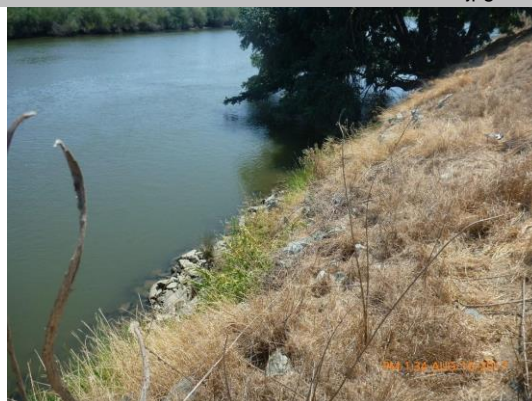
**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	3.26	Rating **	A/W	Issue No.	230
LM End	3.26	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.908800 °	37.908700 °
				-121.325400 °	-121.325300 °
DWR ID	LMA-434				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:528					
Site Designation:LMA-434					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/10/2017					
Notes: combined with LMA-433					

Photo 1 of 3 : LEVAL\_FA\_2019\_528\_4193.jpg



LM Start	<b>3.26</b>	Rating **	A/W	Issue No.	<b>230 (cont)</b>
LM End	<b>3.26</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2019\_528\_4197.jpg



<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	<b>3.26</b>	Rating **	A/W	Issue No.	<b>230 (cont)</b>
LM End	<b>3.26</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.908800 °	37.908700 °
				-121.325400 °	-121.325300 °
DWR ID	LMA-434				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.</p> <p>Site ID No: 528</p> <p>Site Designation: LMA-434</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 8/10/2017</p> <p>Notes: combined with LMA-433</p>					

Photo 3 of 3 : LEVAL\_FA\_2019\_528\_4198.jpg



LM Start	<b>3.27</b>	Rating **	A/W	Issue No.	<b>231</b>
LM End	<b>3.28</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.908600 °	37.908500 °
				-121.325400 °	-121.325400 °
DWR ID	LMA-433				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.</p> <p>Site ID No: 527</p> <p>Site Designation: LMA-433</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 8/10/2017</p> <p>Notes: combined with LMA-434</p>					

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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	3.27	Rating **	C	Issue No.	186
LM End	3.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.908551 °	37.908551 °
				-121.325381 °	-121.325381 °
DWR ID	DWR_RD0524_01_s_2014_186				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	3.29	Rating **	C	Issue No.	162	
LM End	3.31	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.908090 °	37.908090 °	
				-121.325090 °	-121.325090 °	
DWR ID	RD0524U01RM43.86					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM43.86 08/13/2019: This erosion site has been repaired. 09/13/2017: No significant change observed. 07/25/2016: No significant change observed. 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: The levee toe seems to have been protected by river rocks and vegetation on site.						

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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	3.30	Rating **	A/W	Issue No.	232
LM End		Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.908200 °	°
				-121.325300 °	°
DWR ID	LMA-294				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion. Based upon levee inspections, it was determined the waterside levee slopes were eroding, deteriorating and degrading in concave pocket sections at various locations along this levee reach. The eroded levee sections need to be restored back to design standards to prevent further deterioration of the damaged levee sections.					
Site ID No:467					
Site Designation:LMA-294					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/26/2017					
Notes: It looks like new rip rap was placed on the lower 1/4 of the slope. There is a 2-3 ft scarp above the rip rap.					

Photo 1 of 3 : LEVAL\_FA\_2019\_467\_2223.jpg



LM Start	<b>3.30</b>	Rating **	A/W	Issue No.	<b>232 (cont)</b>
LM End		Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2019\_467\_2224.jpg



<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	<b>3.30</b>	Rating **	A/W	Issue No.	<b>232 (cont)</b>					
LM End		Issue Type +	Ma	Location *						
Category	Supplemental			GPS Latitude/Longitude						
				Start	End					
Item	2017 Storm Damage			37.908200 °	°					
				-121.325300 °	°					
DWR ID	LMA-294									
Comment Code										
Inspector Comment										
<p>Levee Evaluation Comments</p> <p>Description: Slope protection repairs are needed along the waterside slope due to erosion. Based upon levee inspections, it was determined the waterside levee slopes were eroding, deteriorating and degrading in concave pocket sections at various locations along this levee reach. The eroded levee sections need to be restored back to design standards to prevent further deterioration of the damaged levee sections.</p> <p>Site ID No: 467</p> <p>Site Designation: LMA-294</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 7/26/2017</p> <p>Notes: It looks like new rip rap was placed on the lower 1/4 of the slope. There is a 2-3 ft scarp above the rip rap.</p>										

Photo 3 of 3 : LEVAL\_FA\_2019\_467\_2225.jpg



LM Start	<b>3.30</b>	Rating **	M	Issue No.	<b>926</b>					
LM End	<b>3.37</b>	Issue Type +	Ma	Location *	LS					
Category	Earthen Levee			GPS Latitude/Longitude						
				Start	End					
Item	Trim / Thin Trees			37.908158 °	37.907112 °					
				-121.325418 °	-121.325350 °					
DWR ID	DWR_RD0524_01_s_2012_926									
Comment Code										
T1 : Trim trees to at least five feet above ground level.										
Inspector Comment										

Photo 1 of 2 : FA\_2019\_RD0524\_107\_926\_20190830\_00259.jpg



Looking southwest at dense veg on landward slope.

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

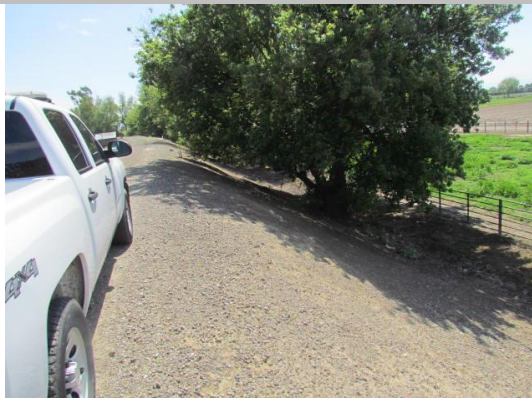
**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	3.30	Rating **	M	Issue No.	926 (cont)
LM End	3.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.908158 °	37.907112 °
				-121.325418 °	-121.325350 °
DWR ID	DWR_RD0524_01_s_2012_926				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 2 of 2 : FA\_2019\_RD0524\_107\_926\_20190830\_00260.jpg



Looking at untrimmed trees on landward slope and toe.

LM Start	3.35	Rating **	U	Issue No.	952	
LM End	3.35	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.907504 °	37.907504 °	
				-121.325420 °	-121.325420 °	
DWR ID	20618					
Comment Code						
Inspector Comment						
DS_ID:20618 FS_ID:53357 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/2/2018 Same as previous inspection with severe LS slope integrity issues (D. Sanoski - DWR UCIP).11/16/2016 same as previous inspection erosion is still present on LS toe and slope. Owner will need to coordinate with CVFPB to address erosion issue on LS toe. (O. Magana - DWR UCIP)08/20/2013 Extensive erosion on LS toe at distribution box due to failure of box/pipe connection. Erosion on LS slope do to recently repaired leak at gate valve. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through the levee, 7 feet below the crown. Pump house located on the waterside (WS) slope. Gate valve located on the landside (LS) slope. 4-foot by 4-foot brick distribution box, built in 1918, located on the LS toe. This site was used to manufacture brick back in 1918, and some of the appurtenances that remain are still in use (distribution box and ditch). [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 3.38) 12-inch pipe listed, (conversation with owner, 2016)]. FS Date: 10/2/2018 1:42:00 PM						

Photo 1 of 3 : UCIP\_FA\_2019\_53357\_30206.jpg



Pipe and pump house on WS 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	<b>3.35</b>	Rating **	U	Issue No.	<b>952 (cont)</b>
LM End	<b>3.35</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		37.907504 °	37.907504 °	
			-121.325420 °	-121.325420 °	
DWR ID	20618				

**Comment Code**

**Inspector Comment**

DS\_ID:20618  
FS\_ID:53357  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 10/2/2018 Same as previous inspection with severe LS slope integrity issues (D. Sanoski - DWR UCIP). 11/16/2016 same as previous inspection erosion is still present on LS toe and slope. Owner will need to coordinate with CVFPB to address erosion issue on LS toe. (O. Magana - DWR UCIP) 08/20/2013 Extensive erosion on LS toe at distribution box due to failure of box/pipe connection. Erosion on LS slope do to recently repaired leak at gate valve. (W. Wylie - DWR UCIP)  
FIELD\_STRUCT\_DESC: 14-inch steel irrigation pipe through the levee, 7 feet below the crown. Pump house located on the waterside (WS) slope. Gate valve located on the landside (LS) slope. 4-foot by 4-foot brick distribution box, built in 1918, located on the LS toe. This site was used to manufacture brick back in 1918, and some of the appurtenances that remain are still in use (distribution box and ditch).  
[Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 3.38) 12-inch pipe listed, (conversation with owner, 2016)].  
FS Date: 10/2/2018 1:42:00 PM

LM Start	<b>3.35</b>	Rating **	U	Issue No.	<b>952 (cont)</b>
LM End	<b>3.35</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2019\_53357\_30205.jpg



Pipe, gatevalve, and erosion on LS slope.

Photo 3 of 3 : UCIP\_FA\_2019\_53357\_30204.jpg



Extensive erosion around distribution box at LS toe.

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	3.37	Rating **	U	Issue No.	136
LM End	3.37	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.907230 °	37.907230 °
				-121.325395 °	-121.325395 °
DWR ID	DWR_RD0524_01_s_2019_136				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_136\_20190830\_00132.jpg



Dense landscape vegetation on landside slope. Spring 2019.

LM Start	3.43	Rating **	M	Issue No.	172
LM End	3.43	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.906429 °	37.906429 °
				-121.324924 °	-121.324924 °
DWR ID	DWR_RD0524_01_s_2018_172				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

LM Start	3.44	Rating **	U	Issue No.	54
LM End	3.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.906291 °	37.906018 °
				-121.324748 °	-121.324300 °
DWR ID	DWR_RD0524_01_s_2012_54				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Dense untrimmed trees on landside slope.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_54\_20190830\_00069.jpg



Looking northwest at dense vegetation on landside slope.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

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

**+ Issue Type**

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

# Reclamation District No. 0524 Middle Roberts Island

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	3.53	Rating **	A/W	Issue No.	233 (cont)	
LM End	3.54	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.905300 °	37.905200 °	
				-121.323800 °	-121.323900 °	
DWR ID	LMA-432					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.						
Site ID No:526						
Site Designation:LMA-432						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:8/10/2017						
Notes:						

Photo 2 of 3 : LEVAL\_FA\_2019\_526\_4202.jpg



LM Start	<b>3.53</b>	Rating **	A/W	Issue No.	<b>233 (cont)</b>
LM End	<b>3.54</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : LEVAL\_FA\_2019\_526\_4203.jpg



<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. 0524 Middle Roberts Island

Looking south at dense trees on landward slope.

A photograph showing a riverbank. The foreground is covered in dry, yellowish-brown grass and some small rocks. A line of larger, dark rocks separates the grassy bank from the dark, calm water of the river. On the right side, there is a green bush or small tree. The water reflects the sky and the surrounding environment.Page 121 of 180

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	3.56	Rating **	A/W	Issue No.	234 (cont)	
LM End	3.57	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.904900 °	37.904800 °	
				-121.323900 °	-121.324100 °	
DWR ID	LMA-431					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.						
Site ID No:525						
Site Designation:LMA-431						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:8/10/2017						
Notes: No appearance of erosion, continue to monitor						

Photo 2 of 3 : LEVAL\_FA\_2019\_525\_4206.jpg



LM Start	<b>3.56</b>	Rating **	A/W	Issue No.	<b>234 (cont)</b>
LM End	<b>3.57</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : LEVAL\_FA\_2019\_525\_4208.jpg



<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	3.61	Rating **	M	Issue No.	124
LM End	3.61	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.904375 °	37.904375 °
				-121.324615 °	-121.324615 °
DWR ID	DWR_RD0524_01_f_2012_124				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landowner planted cactus on landside toe.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_124\_20190830\_00131.jpg



Looking west at cactus on landside toe.

LM Start	3.62	Rating **	M	Issue No.	163
LM End	3.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.904348 °	37.904348 °
				-121.324683 °	-121.324683 °
DWR ID	DWR_RD0524_01_s_2017_163				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	3.64	Rating **	M	Issue No.	159
LM End	3.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.904103 °	37.904103 °
				-121.325056 °	-121.325056 °
DWR ID	DWR_RD0524_01_f_2019_159				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      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



# Reclamation District No. 0524 Middle Roberts Island

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	3.69	Rating **	U	Issue No.	194
LM End	3.78	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.903553 °	37.902505 °
				-121.325468 °	-121.326425 °
DWR ID	DWR_RD0524_01_s_2015_194				
Comment Code					
DT : Ditch					
Inspector Comment					
Shallow Irrigation ditch at landside toe.					

Photo 1 of 2 : FA\_2019\_RD0524\_107\_194\_20190830\_00173.jpg



Looking south at irrigation ditch at landward toe.

LM Start	<b>3.69</b>	Rating **	U	Issue No.	<b>194 (cont)</b>
LM End	<b>3.78</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA\_2019\_RD0524\_107\_194\_20190830\_00174.jpg



Looking east at south end of irrigation ditch at landward toe.

LM Start	3.69	Rating **	M	Issue No.	160
LM End	3.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.903505 °	37.902706 °
				-121.325480 °	-121.326267 °
DWR ID	DWR_RD0524_01_f_2019_160				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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	<b>N : Not Inspected/Rated</b> 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**

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**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	3.72	Rating **	C	Issue No.	252
LM End	3.78	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.903120°	37.902527°
				-121.325846°	-121.326372°
DWR ID	DWR_RD0524_01_f_2017_252				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					
Control vegetation growth on crown.					

No Photos

LM Start	3.77	Rating **	M	Issue No.	927
LM End	3.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.902645 °	37.902645 °
				-121.326340 °	-121.326340 °
DWR ID	DWR_RD0524_01_s_2012_927				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_927\_20190830\_00261.jpg



Looking southwest at untrimmed tree at landward toe.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

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

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	<b>3.79</b>	Rating **	M	Issue No.	<b>953</b>
LM End	<b>3.79</b>	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		37.902371°	37.902371°	
			-121.326440°	-121.326440°	
DWR ID	24044				

**Comment Code**

**Inspector Comment**

DS\_ID:24044  
FS\_ID:22725  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: No permit identified for this crossing.  
FIELD\_STRUCT\_DESC: 8-inch steel irrigation pipe through the levee, 0 feet below the crown. Pipe integrated into steel cattle guard style crossing. Slant pump and butterfly valve at concrete foundation on the waterside (WS) slope. Filter plant, vents, and butterfly valves on the landside (LS) toe.  
FS Date: 8/20/2013

LM Start	<b>3.79</b>	Rating **	M	Issue No.	<b>953 (cont)</b>
LM End	<b>3.79</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2019\_22725\_38445.jpg



Pump and butterfly valve on concrete pad on WS shoulder.

Photo 2 of 3 : UCIP\_FA\_2019\_22725\_38444.jpg



Vent on PVC pipe at WS shoulder.

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

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	3.79	Rating **	M	Issue No.	953 (cont)	
LM End	3.79	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.902371 °	37.902371 °	
				-121.326440 °	-121.326440 °	
DWR ID	24044					
Comment Code						
Inspector Comment						
DS_ID:24044 FS_ID:22725 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee, 0 feet below the crown. Pipe integrated into steel cattle guard style crossing. Slant pump and butterfly valve at concrete foundation on the waterside (WS) slope. Filter plant, vents, and butterfly valves on the landside (LS) toe. FS Date: 8/20/2013						

Photo 3 of 3 : UCIP\_FA\_2019\_22725\_38443.jpg



Steel, integrated cattle guard style pipe crossing at crown elevation.

LM Start	3.79	Rating **	M	Issue No.	954	
LM End	3.79	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			37.902361 °		37.902361 °
				-121.326443 °		-121.326443 °
DWR ID	20620					
Comment Code						
Inspector Comment						
DS_ID:20620 FS_ID:18307 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. Evidence of severe internal corrosion in concrete distribution box at LS toe. FIELD_STRUCT_DESC: 12-inch concrete encased steel irrigation pipe through the levee, 10.5 feet below the crown. Pump and gate valve in pump house on the waterside (WS) slope. 6-foot by 6-foot Concrete distribution box on the landside (LS) toe. Two concrete cutoff walls. Service pole at the LS toe. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 3.83)]. FS Date: 8/20/2013						

Photo 1 of 3 : UCIP\_FA\_2019\_18307\_30528.jpg



Slant pump visible at concrete foundation on WS slope. Pumphouse 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	3.79	Rating **	M	Issue No.	954 (cont)	
LM End	3.79	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			37.902361 °		37.902361 °
				-121.326443 °		-121.326443 °
DWR ID	20620					
Comment Code						
Inspector Comment						
DS_ID:20620						
FS_ID:18307						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Appears abandoned and if so should be done so properly. Evidence of severe internal corrosion in concrete distribution box at LS toe.						
FIELD_STRUCT_DESC: 12-inch concrete encased steel irrigation pipe through the levee, 10.5 feet below the crown. Pump and gate valve in pump house on the waterside (WS) slope. 6-foot by 6-foot Concrete distribution box on the landside (LS) toe. Two concrete cutoff walls. Service pole at the LS toe. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 3.83)].						
FS Date: 8/20/2013						

LM Start	<b>3.79</b>	Rating **	M	Issue No.	<b>954 (cont)</b>
LM End	<b>3.79</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2019\_18307\_30527.jpg



Slant pump and pipe on WS slope.

Photo 3 of 3 : UCIP\_FA\_2019\_18307\_30526.jpg



6'X6' concrete distribution box and power pole on LS 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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## Levee Inspection Report By Mile - Fall 2019

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

Photo 1 of 2 : FA\_2019\_RD0524\_107\_59\_20190830\_00076.jpg



Looking south at dense veg on landward slope and toe.

Photo 2 of 2 : FA\_2019\_RD0524\_107\_59\_20190830\_00077.jpg



04/24/2018

Looking at fallen tree on landward slope. (Spring 2018)

Photo 1 of 3 : FA\_2019\_RD0524\_107\_95\_20190830\_001119.jpg



Looking south at farm equipment stored on landward shoulder and toe.

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

# Reclamation District No. 0524 Middle Roberts Island

* 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	3.89	Rating **	U	Issue No.	94 (cont)	
LM End	3.89	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.900940 °		37.900940 °
				-121.326414 °		-121.326414 °
DWR ID	DWR_RD0524_01_s_2012_94					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Remove cactus from waterside slope.						

Photo 2 of 2 : FA\_2019\_RD0524\_107\_94\_20190830\_00118.jpg



Looking southeast at cactus on waterside slope. Fall 2013

LM Start	3.90	Rating **	M	Issue No.	955
LM End	3.90	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			37.900778 °	37.900778 °
				-121.326420 °	-121.326420 °
DWR ID	20621				
Comment Code					
Inspector Comment					
DS_ID:20621 FS_ID:41464 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears to be abandoned as signage has been removed. FIELD_STRUCT_DESC: 2.5-inch submarine telephone conduit of an unknown material through the levee and across the channel, 2 feet below the crown. Sign posts remain on both sides of the river on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2004]. FS Date: 8/20/2013					

Photo 1 of 2 : UCIP\_FA\_2019\_41464\_30543.jpg



Sign posts with sign removed on WS 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	<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	3.90	Rating **	M	Issue No.	955 (cont)	
LM End	3.90	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.900778 °	37.900778 °	
				-121.326420 °	-121.326420 °	
DWR ID	20621					
Comment Code						
Inspector Comment						
DS_ID:20621 FS_ID:41464 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears to be abandoned as signage has been removed. FIELD_STRUCT_DESC: 2.5-inch submarine telephone conduit of an unknown material through the levee and across the channel, 2 feet below the crown. Sign posts remain on both sides of the river on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2004]. FS Date: 8/20/2013						

Photo 2 of 2 : UCIP\_FA\_2019\_41464\_30542.jpg



Sign posts visible on opposite river bank in same condition.

LM Start	3.97	Rating **	C	Issue No.	253
LM End	4.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.899748 °	37.899116 °
				-121.326596 °	-121.326905 °
DWR ID	DWR_RD0524_01_f_2017_253				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	3.97	Rating **	M	Issue No.	254
LM End	4.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.899718 °	37.898945 °
				-121.326605 °	-121.327003 °
DWR ID	DWR_RD0524_01_f_2017_254				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_254\_20190830\_00241.jpg



Looking southwest at the waterside slope.

LM Start	4.02	Rating **	M	Issue No.	195
LM End	4.02	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.899093 °	37.899093 °
				-121.326933 °	-121.326933 °
DWR ID	DWR_RD0524_01_s_2015_195				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning pile blocking view of landside slope.					

Photo 1 of 2 : FA\_2019\_RD0524\_107\_195\_20190830\_00175.jpg



Looking southwes at large pruning pile at landward toe. (Fall 2016)

LM Start	<b>4.02</b>	Rating **	M	Issue No.	<b>195 (cont)</b>
LM End	<b>4.02</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA\_2019\_RD0524\_107\_195\_20190830\_00176.jpg



Looking at pruning pile at landward toe. (Spring 2016)

<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	4.02	Rating **	U	Issue No.	101
LM End	4.02	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.899027 °	37.899027 °
				-121.326982 °	-121.326982 °
DWR ID	DWR_RD0524_01_s_2012_101				
Comment Code					
RA : Ramp					
Inspector Comment					
Unauthorized ramp. Ramp does not meet Title 23 standard.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_101\_20190830\_00123.jpg



Looking west at unauthorized ramp on landside slope.

LM Start	4.03	Rating **	M	Issue No.	61
LM End	4.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.898925 °	37.898925 °
				-121.327015 °	-121.327015 °
DWR ID	DWR_RD0524_01_s_2012_61				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_61\_20190830\_00082.jpg



Looking east at untrimmed tree at landward 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	4.04	Rating **	M	Issue No.	956	
LM End	4.04	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.898853 °	37.898853 °	
				-121.327049 °	-121.327049 °	
DWR ID	20623					
Comment Code						
Inspector Comment						
DS_ID:20623						
FS_ID:18314						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Appears abandoned and if so should be done so properly.						
FIELD_STRUCT_DESC: 8-inch concrete encased steel irrigation pipe through the levee, 9.5 feet below the crown. Pump and gate valve in pump house on the waterside (WS) slope. Slide gate in 42-inch corrugated metal pipe riser unit on the WS slope. Brick standpipe at the toe of the landside (LS) slope. 1.5-inch galvanized iron electrical conduit through the levee, 3 feet below the crown at the same location.						
[Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 4.08)].						
FS Date: 8/20/2013						



Electrical conduit visible on WS slope at pumphouse.

LM Start	<b>4.04</b>	Rating **	M	Issue No.	<b>956 (cont)</b>
LM End	<b>4.04</b>	Issue Type +	En	Location *	



Pumphouse and gate valve in CMP riser on WS 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**

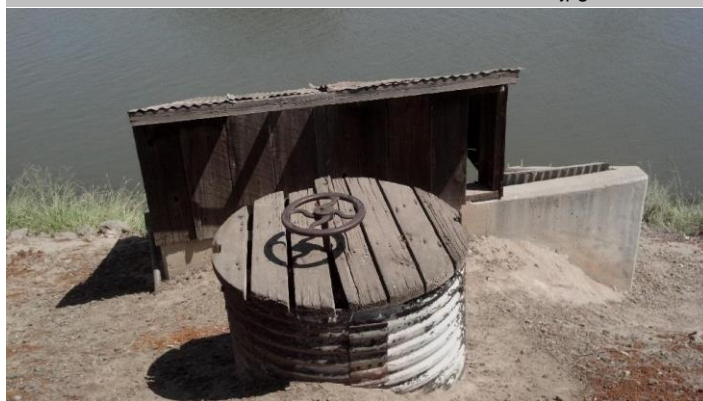
**Levee Inspection Report By Mile - Fall 2019**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	4.04	Rating **	M	Issue No.	956 (cont)	
LM End	4.04	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.898853 °	37.898853 °	
				-121.327049 °	-121.327049 °	
DWR ID	20623					
Comment Code						
Inspector Comment						
DS_ID:20623						
FS_ID:18314						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Appears abandoned and if so should be done so properly.						
FIELD_STRUCT_DESC: 8-inch concrete encased steel irrigation pipe through the levee, 9.5 feet below the crown. Pump and gate valve in pump house on the waterside (WS) slope. Slide gate in 42-inch corrugated metal pipe riser unit on the WS slope. Brick standpipe at the toe of the landside (LS) slope. 1.5-inch galvanized iron electrical conduit through the levee, 3 feet below the crown at the same location.						
[Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 4.08)].						
FS Date: 8/20/2013						

Photo 3 of 3 : UCIP\_FA\_2019\_18314\_30560.jpg



Pumphouse and gate valve in CMP riser on WS slope.

LM Start	4.14	Rating **	M	Issue No.	137
LM End	4.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.897501 °	37.897501 °
				-121.327718 °	-121.327718 °
DWR ID	DWR_RD0524_01_s_2019_137				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
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**

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**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	4.16	Rating **	C	Issue No.	213
LM End	4.16	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.897235 °	37.897235 °
				-121.327865 °	-121.327865 °
DWR ID	DWR_RD0524_01_s_2016_213				
Comment Code					
GA : Garbage					
Inspector Comment					
Old fence post and concrete and brick rubble on landside slope.					

No Photos

LM Start	4.16	Rating **	M	Issue No.	957
LM End	4.16	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			37.897118 °	37.897118 °
				-121.327910 °	-121.327910 °
DWR ID	20625				
Comment Code					
Inspector Comment					
DS_ID:20625					
FS_ID:18318					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Small leak on WS slope causing minor erosion on WS slope.					
FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 4.5 feet below the crown. Pump house and gate valve on the waterside (WS) slope. 36-inch concrete standpipe, power pole, and meter on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 4.21)].					
FS Date: 8/23/2013					

Photo 1 of 3 : UCIP\_FA\_2019\_18318\_30589.jpg



Concrete standpipe on LS 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	4.16	Rating **	M	Issue No.	957 (cont)	
LM End	4.16	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.897118 °	37.897118 °	
				-121.327910 °	-121.327910 °	
DWR ID	20625					
Comment Code						
Inspector Comment						
DS_ID:20625						
FS_ID:18318						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Small leak on WS slope causing minor erosion on WS slope.						
FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 4.5 feet below the crown. Pump house and gate valve on the waterside (WS) slope. 36-inch concrete standpipe, power pole, and meter on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 4.21)].						
FS Date: 8/23/2013						

Photo 2 of 3 : UCIP\_FA\_2019\_18318\_30588.jpg



Vent or siphon breaker just off LS shoulder.

LM Start	<b>4.16</b>	Rating **	M	Issue No.	<b>957 (cont)</b>
LM End	<b>4.16</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_FA\_2019\_18318\_30587.jpg



Pumphouse and pipe on WS 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	4.16	Rating **	M	Issue No.	110
LM End	4.16	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.897103°	37.897103°
				-121.327895°	-121.327895°
DWR ID	DWR_RD0524_01_s_2012_110				
Comment Code					
RA : Ramp					
Inspector Comment					
Two unauthorized ramps on landside slope.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_110\_20190830\_00127.jpg



Looking southwest at an unauthorized ramp on landside slope.

LM Start	4.17	Rating **	M	Issue No.	958
LM End	4.17	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			37.897074°	37.897074°
				-121.327926°	-121.327926°
DWR ID	24049				
Comment Code					
Inspector Comment					
DS_ID:24049					
FS_ID:22069					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: No permit identified for this crossing.					
FIELD_STRUCT_DESC: 2.25-inch polyvinyl chloride domestic water service line through the levee, 5 feet below the crown. Pump and tank on the waterside (WS) slope with a vent on the landside (LS) slope.					
FS Date: 8/23/2013					

Photo 1 of 2 : UCIP\_FA\_2019\_22069\_37660.jpg



Pipe visible on LS 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	4.17	Rating **	M	Issue No.	958 (cont)	
LM End	4.17	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.897074 °	37.897074 °	
				-121.327926 °	-121.327926 °	
DWR ID	24049					
Comment Code						
Inspector Comment						
DS_ID:24049						
FS_ID:22069						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: No permit identified for this crossing.						
FIELD_STRUCT_DESC: 2.25-inch polyvinyl chloride domestic water service line through the levee, 5 feet below the crown. Pump and tank on the waterside (WS) slope with a vent on the landside (LS) slope.						
FS Date: 8/23/2013						

Photo 2 of 2 : UCIP\_FA\_2019\_22069\_37659.jpg



Pipe, pump, and tank visible on WS slope.

LM Start	4.37	Rating **	M	Issue No.	959	
LM End	4.37	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.894453 °	37.894453 °	
				-121.329232 °	-121.329232 °	
DWR ID	20626					
Comment Code						
Inspector Comment						
DS_ID:20626						
FS_ID:18320						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Small leak in pipe on LS slope and pipe slightly crushed on LS toe.						
FIELD_STRUCT_DESC: 9-inch steel pipe of unknown purpose through the levee, 3 feet below the crown. Pump in drainage ditch on the landside (LS). Siphon breaker on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 4.42) 8-inch pipe listed].						
FS Date: 8/23/2013						

Photo 1 of 3 : UCIP\_FA\_2019\_18320\_30594.jpg



Pipe and siphon breaker on WS 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	<b>N : Not Inspected/Rated</b> 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	4.37	Rating **	M	Issue No.	959 (cont)	
LM End	4.37	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.894453 °	37.894453 °	
				-121.329232 °	-121.329232 °	
DWR ID	20626					
Comment Code						
Inspector Comment						
DS_ID:20626 FS_ID:18320 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Small leak in pipe on LS slope and pipe slightly crushed on LS toe. FIELD_STRUCT_DESC: 9-inch steel pipe of unknown purpose through the levee, 3 feet below the crown. Pump in drainage ditch on the landside (LS). Siphon breaker on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 4.42) 8-inch pipe listed]. FS Date: 8/23/2013						

LM Start	<b>4.37</b>	Rating **	M	Issue No.	<b>959 (cont)</b>
LM End	<b>4.37</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2019\_18320\_30593.jpg



Small leak in pipe on LS slope.

Photo 3 of 3 : UCIP\_FA\_2019\_18320\_30592.jpg



Pipe partially crushed at LS 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	4.37	Rating **	M	Issue No.	255
LM End	4.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.894442 °	37.894442 °
				-121.329238 °	-121.329238 °
DWR ID	DWR_RD0524_01_f_2017_255				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Multiple rodent holes around gate stop post.					

No Photos

LM Start	4.38	Rating **	M	Issue No.	111
LM End	4.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.894258 °	37.894258 °
				-121.329247 °	-121.329247 °
DWR ID	DWR_RD0524_01_s_2012_111				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Dead tree at landside toe should be removed from levee toe.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_111\_20190830\_00128.jpg



Looking west at dead tree at landside toe.

LM Start	4.38	Rating **	M	Issue No.	165
LM End	4.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.894198 °	37.894198 °
				-121.329272 °	-121.329272 °
DWR ID	DWR_RD0524_01_s_2017_165				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
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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## Levee Inspection Report By Mile - Fall 2019

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

Photo 1 of 1 : FA\_2019\_RD0524\_107\_199\_20190830\_00182.jpg

Looking west at dead tree on landward slope and toe fall 2015.

Photo 1 of 1 : FA\_2019\_RD0524\_107\_139\_20191117\_00375.jpg



View of large rodent holes on landside slope. Fall 2019

Photo 1 of 2 : FA\_2019\_RD0524\_107\_102\_20190830\_00124.jpg



Looking southeast at dead tree on waterside slope fall 2015

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	4.52	Rating **	U	Issue No.	102 (cont)	
LM End	4.52	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			37.892383 °	37.892383 °	
				-121.328194 °	-121.328194 °	
DWR ID	DWR_RD0524_01_f_2016_102					
Comment Code						
TR : Tree or limb						
Inspector Comment						
Dead tree on waterside slope should be removed						

Photo 2 of 2 : FA\_2019\_RD0524\_107\_102\_20190830\_00125.jpg



Looking southeast at dead tree on waterside slope.

LM Start	4.53	Rating **	A/W	Issue No.	70
LM End	4.54	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.892230 °	37.892230 °
				-121.327930 °	-121.327930 °
DWR ID	RD0524U01RM45.07				
Comment Code					
Inspector Comment					
Site ID: RD0524U01RM45.07					
08/13/2019: No significant change observed.					
09/13/2017: No significant change observed.					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The erosion is located at the inside of a river bend. Site is covered with broken concrete blocks and other debris.					

Photo 1 of 3 : SJR2019\_RD0524U01RM45.07\_1.jpg



Front view of the erosion site.

* 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	4.53	Rating **	A/W	Issue No.	70 (cont)	
LM End	4.54	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.892230 °		37.892230 °
				-121.327930 °		-121.327930 °
DWR ID	RD0524U01RM45.07					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM45.07						
08/13/2019: No significant change observed.						
09/13/2017: No significant change observed.						
07/25/2016: No significant change observed.						
06/24/2015: No significant change observed.						
06/19/2014: No significant change observed.						
08/13/2013: No significant change observed.						
08/07/2012: The erosion is located at the inside of a river bend. Site is covered with broken concrete blocks and other debris.						

LM Start	<b>4.53</b>	Rating **	A/W	Issue No.	<b>70 (cont)</b>
LM End	<b>4.54</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : SJR2019\_RD0524U01RM45.07\_3.jpg



Close-up view of the site.

Photo 3 of 3 : SJR2019\_RD0524U01RM45.07\_2.jpg



Front view of the site. Note the loosely placed concrete blocks 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	4.53	Rating **	A/W	Issue No.	235	
LM End		Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			37.892200 °		°
				-121.328000 °		°
DWR ID	LMA-295					
Comment Code						

**Comment Code**

**Inspector Comment**

**Levee Evaluation Comments**

Description: Slope protection repairs are needed along the waterside slope due to erosion. Based upon levee inspections, it was determined the waterside levee slopes were eroding, deteriorating and degrading in concave pocket sections at various locations along this levee reach. The eroded levee sections need to be restored back to design standards to prevent further deterioration of the damaged levee sections.

Site ID No: 468

Site Designation: LMA-295

Repair Type: Erosion

Rating: Serious

Field Date: 7/26/2017

Notes: Serious because erosion is impacting the levee, but there is some slope protection here. Slope is armored with asphalt and concrete rubble. The surrounding slopes are pretty barren, but there is a small bush within the site so it may be older.

LM Start	<b>4.53</b>	Rating **	A/W	Issue No.	<b>235 (cont)</b>
LM End		Issue Type +	Ma	Location *	

Photo 1 of 3 : LEVAL\_FA\_2019\_468\_2219.jpg



Photo 2 of 3 : LEVAL\_FA\_2019\_468\_2220.jpg



<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	<b>4.53</b>	Rating **	A/W	Issue No.	<b>235 (cont)</b>
LM End		Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.892200 °	°
				-121.328000 °	°
DWR ID	LMA-295				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: Slope protection repairs are needed along the waterside slope due to erosion. Based upon levee inspections, it was determined the waterside levee slopes were eroding, deteriorating and degrading in concave pocket sections at various locations along this levee reach. The eroded levee sections need to be restored back to design standards to prevent further deterioration of the damaged levee sections.</p> <p>Site ID No: 468</p> <p>Site Designation: LMA-295</p> <p>Repair Type: Erosion</p> <p>Rating: Serious</p> <p>Field Date: 7/26/2017</p> <p>Notes: Serious because erosion is impacting the levee, but there is some slope protection here. Slope is armored with asphalt and concrete rubble. The surrounding slopes are pretty barren, but there is a small bush within the site so it may be older.</p>					

Photo 3 of 3 : LEVAL\_FA\_2019\_468\_2221.jpg



LM Start	<b>4.57</b>	Rating **	M	Issue No.	<b>258</b>
LM End	<b>4.57</b>	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.891778 °	37.891778 °
				-121.328342 °	-121.328342 °
DWR ID	DWR_RD0524_01_f_2017_258				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_258\_20190830\_00242.jpg



Looking west at the landside 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	4.60	Rating **	M	Issue No.	66
LM End	4.60	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.891365 °	37.891365 °
				-121.328633 °	-121.328633 °
DWR ID	DWR_RD0524_01_s_2012_66				
Comment Code					
GA : Garbage					
Inspector Comment					
Old farm equipment at landside toe.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_66\_20190830\_00086.jpg



Garbage at landward toe next to ramp at LM 4.64

LM Start	4.63	Rating **	M	Issue No.	259
LM End	4.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.890987 °	37.890987 °
				-121.328956 °	-121.328956 °
DWR ID	DWR_RD0524_01_f_2017_259				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	4.68	Rating **	M	Issue No.	960	
LM End	4.68	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			37.890313 °		37.890313 °
				-121.329405 °		-121.329405 °
DWR ID	20646					
Comment Code						
Inspector Comment						
DS_ID:20646 FS_ID:18323 EP_NO: 0 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Good candidate for video inspection as brick and mortar deteriorating inside tunnel. FIELD_STRUCT_DESC: 22-inch concrete irrigation pipe through the levee, 12 feet below the crown. Pump on pier at the waterside (WS) toe. 16-inch pipe from pump discharges into a concrete riser unit inside the pump house on the WS shoulder. Brick and mortar channel on the landside (LS) toe. [Additional Reference(s): USACE San Joaquin O&M Manual 7, April 1964, (HLM 4.73) 14-inch pipe listed]. FS Date: 8/23/2013						

LM Start	<b>4.68</b>	Rating **	M	Issue No.	<b>960 (cont)</b>
LM End	<b>4.68</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2019\_18323\_30603.jpg



Brick and mortar channel on LS toe.

Photo 2 of 3 : UCIP\_FA\_2019\_18323\_30602.jpg



Pump on pier and slide gate house on WS shoulder.

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

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	4.68	Rating **	M	Issue No.	960 (cont)	
LM End	4.68	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			37.890313 °		37.890313 °
				-121.329405 °		-121.329405 °
DWR ID	20646					
Comment Code						
Inspector Comment						
DS_ID:20646						
FS_ID:18323						
EP_NO: 0						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Good candidate for video inspection as brick and mortar deteriorating inside tunnel.						
FIELD_STRUCT_DESC: 22-inch concrete irrigation pipe through the levee, 12 feet below the crown. Pump on pier at the waterside (WS) toe. 16-inch pipe from pump discharges into a concrete riser unit inside the pump house on the WS shoulder. Brick and mortar channel on the landside (LS) toe. [Additional Reference(s): USACE San Joaquin O&M Manual 7, April 1964, (HLM 4.73) 14-inch pipe listed].						
FS Date: 8/23/2013						

Photo 3 of 3 : UCIP\_FA\_2019\_18323\_30601.jpg



Slide gate inside concrete riser within shed on WS shoulder.

LM Start	4.70	Rating **	M	Issue No.	67
LM End	4.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.890108 °	37.890108 °
				-121.329523 °	-121.329523 °
DWR ID	DWR_RD0524_01_s_2012_67				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Fig tree at landside toe.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_67\_20190830\_00087.jpg



Looking northwest at untrimmed tree on landward slope.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

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

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	4.76	Rating **	A/W	Issue No.	236
LM End	4.76	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.889300 °	37.889300 °
				-121.329800 °	-121.329800 °
DWR ID	LMA-429				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.					
Site ID No:523					
Site Designation:LMA-429					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:8/15/2017					
Notes:					

Photo 1 of 3 : LEVAL\_FA\_2019\_523\_4217.jpg



LM Start	<b>4.76</b>	Rating **	A/W	Issue No.	<b>236 (cont)</b>
LM End	<b>4.76</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL\_FA\_2019\_523\_4218.jpg



<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	<b>4.76</b>	Rating **	A/W	Issue No.	<b>236 (cont)</b>
LM End	<b>4.76</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.889300 °	37.889300 °
				-121.329800 °	-121.329800 °
DWR ID	LMA-429				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.</p> <p>Site ID No: 523</p> <p>Site Designation: LMA-429</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 8/15/2017</p> <p>Notes:</p>					

Photo 3 of 3 : LEVAL\_FA\_2019\_523\_4219.jpg



LM Start	<b>4.77</b>	Rating **	M	Issue No.	<b>166</b>
LM End	<b>4.86</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.889087 °	37.887982 °
				-121.329898 °	-121.330533 °
DWR ID	DWR_RD0524_01_f_2019_166				
Comment Code					
<p>V2 : Remove the wild growth other than native grasses from the levee slopes.</p>					
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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	4.89	Rating **	M	Issue No.	961	
LM End	4.89	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.887694 °	37.887694 °	
				-121.331019 °	-121.331019 °	
DWR ID	20628					
Comment Code						
Inspector Comment						
DS_ID:20628 FS_ID:22728 EP_NO: 3817 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel drainage pipe through the levee, 3 feet below the crown. Pump 120 feet off the landside (LS) toe. Siphon breaker in 24-inch corrugated metal riser unit on the waterside (WS) shoulder. (Permit No. 3817, 1961 - Ohm and Saunders). [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 4.95)]. FS Date: 8/23/2013						

LM Start	<b>4.89</b>	Rating **	M	Issue No.	<b>961 (cont)</b>
LM End	<b>4.89</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2019\_22728\_38453.jpg



Siphon breaker in 24-inch CMP riser on WS shoulder.

Photo 2 of 3 : UCIP\_FA\_2019\_22728\_38452.jpg



Pipe visible on WS 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	4.89	Rating **	M	Issue No.	961 (cont)	
LM End	4.89	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.887694 °	37.887694 °	
				-121.331019 °	-121.331019 °	
DWR ID	20628					
Comment Code						
Inspector Comment						
DS_ID:20628						
FS_ID:22728						
EP_NO: 3817						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Appears abandoned and if so should be done so properly.						
FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel drainage pipe through the levee, 3 feet below the crown. Pump 120 feet off the landside (LS) toe. Siphon breaker in 24-inch corrugated metal riser unit on the waterside (WS) shoulder. (Permit No. 3817, 1961 - Ohm and Saunders). [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 4.95)].						
FS Date: 8/23/2013						

Photo 3 of 3 : UCIP\_FA\_2019\_22728\_38451.jpg



Pump in pumphouse 120-feet off LS toe.

LM Start	4.90	Rating **	M	Issue No.	84
LM End	4.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.887613 °	37.887258 °
				-121.331161 °	-121.331596 °
DWR ID	DWR_RD0524_01_s_2012_84				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed trees on landside slope.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_84\_20190830\_00106.jpg



Looking west at untrimmed tree on landward 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	4.96	Rating **	U	Issue No.	114
LM End	4.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.886948 °	37.886672 °
				-121.331834 °	-121.331962 °
DWR ID	DWR_RD0524_01_s_2012_114				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Dense elderberry on landside slope.					

No Photos

LM Start	5.00	Rating **	M	Issue No.	260
LM End	5.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.886367 °	37.886367 °
				-121.332047 °	-121.332047 °
DWR ID	DWR_RD0524_01_f_2017_260				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_260\_20190830\_00243.jpg



Looking southwest at the landside slope.

LM Start	5.05	Rating **	U	Issue No.	188
LM End	5.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.885673 °	37.885315 °
				-121.332122 °	-121.332139 °
DWR ID	DWR_RD0524_01_s_2014_188				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Untrimmed trees on landside slope and toe.					

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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# Reclamation District No. 0524 Middle Roberts Island

Looking northwest at slope damage on landward slope.

No Photos

Looking south at untrimmed trees on landward slope.

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	5.38	Rating **	M	Issue No.	932
LM End	5.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.880945 °	37.880522 °
				-121.332837 °	-121.332918 °
DWR ID	DWR_RD0524_01_s_2012_932				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_932\_20190830\_00262.jpg



Looking south at untrimmed trees on landward slope and toe.

LM Start	5.39	Rating **	M	Issue No.	178
LM End	5.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.880806 °	37.880806 °
				-121.332833 °	-121.332833 °
DWR ID	DWR_RD0524_01_f _ 2014_178				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree limbs on landside toe.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_178\_20190830\_00159.jpg



Looking south at downed tree on landward 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	5.41	Rating **	U	Issue No.	962	
LM End	5.41	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			37.880584 °	37.880584 °	
				-121.332901 °	-121.332901 °	
DWR ID	20630					
Comment Code						
Inspector Comment						
DS_ID:20630 FS_ID:53358 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/2/2018 Same as last inspection. Holes present in pipe pose a potential threat to levee's internal integrity. Recommend video inspection (D. Sanoski - DWR UCIP).11/16/2016 same as previous inspection hole in pipe is still pressent on WS near toe. This pipe does not appear to be in use. Need to contact owner to determine status of crossing. If the crossing is abandoned or still in use, owner will need to coordinate with the CVFPB to comply with Title 23 requirements. (O. Magana - DWR UCIP)08/23/2013 flap gate damage and does not work at WS toe. Large hole in pipe at WS toe. Pipe appears abandoned and should be done so properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 12-inch steel irrigation pipe through the levee, 6 feet below the crown. Pump located on the waterside (WS), no pump found in 2013. Flap gate located on the WS end. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 5.48) 10-inch pipe listed, Drawing No. 07-04-1490, Sheet 1490/4, (Station 8+01.3)]. FS Date: 10/2/2018 1:34:00 PM						

LM Start	<b>5.41</b>	Rating **	U	Issue No.	<b>962 (cont)</b>
LM End	<b>5.41</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2019\_53358\_30689.jpg



Pipe visible on WS slope.

Photo 2 of 3 : UCIP\_FA\_2019\_53358\_30688.jpg



Vent on pipe on WS slope. Possible slurry standpipe that has not yet been used.

<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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	5.41	Rating **	U	Issue No.	962 (cont)	
LM End	5.41	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			37.880584 °	37.880584 °	
				-121.332901 °	-121.332901 °	
DWR ID	20630					
Comment Code						
Inspector Comment						
DS_ID:20630 FS_ID:53358 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/2/2018 Same as last inspection. Holes present in pipe pose a potential threat to levee's internal integrity. Recommend video inspection (D. Sanoski - DWR UCIP).11/16/2016 same as previous inspection hole in pipe is still pressent on WS near toe. This pipe does not appear to be in use. Need to contact owner to determine status of crossing. If the crossing is abandoned or still in use, owner will need to coordinate with the CVFPB to comply with Title 23 requirements. (O. Magana - DWR UCIP)08/23/2013 flap gate damage and does not work at WS toe. Large hole in pipe at WS toe. Pipe appears abandoned and should be done so properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 12-inch steel irrigation pipe through the levee, 6 feet below the crown. Pump located on the waterside (WS), no pump found in 2013. Flap gate located on the WS end. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 5.48) 10-inch pipe listed, Drawing No. 07-04-1490, Sheet 1490/4, (Station 8+01.3)]. FS Date: 10/2/2018 1:34:00 PM						

Photo 3 of 3 : UCIP\_FA\_2019\_53358\_30687.jpg



Broken flap gate at WS toe.

LM Start	5.41	Rating **	M	Issue No.	269
LM End	5.41	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.880468 °	37.880468 °
				-121.332909 °	-121.332909 °
DWR ID	DWR_RD0524_01_f_2017_269				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_269\_20190830\_00252.jpg



Looking west at the landside 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	5.42	Rating **	M	Issue No.	963	
LM End	5.42	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			37.880358 °	37.880358 °	
				-121.332972 °	-121.332972 °	
DWR ID	20631					
Comment Code						
Inspector Comment						
DS_ID:20631						
FS_ID:18348						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Recent work being done on WS slope. Pipe may still be in use.						
FIELD_STRUCT_DESC: 10-inch steel drainage pipe through the levee, 6 feet below the crown. Pump not found on the landside (LS).						
[Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 5.50)].						
FS Date: 8/23/2013						

LM Start	5.42	Rating **	M	Issue No.	963 (cont)
LM End	5.42	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2019\_18348\_30706.jpg



10-inch pipe debris on the WS slope.

Photo 2 of 3 : UCIP\_FA\_2019\_18348\_30705.jpg



8-inch pipe sleeved through 10-inch pipe with vent on WS 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	5.42	Rating **	M	Issue No.	963 (cont)	
LM End	5.42	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			37.880358 °	37.880358 °	
				-121.332972 °	-121.332972 °	
DWR ID	20631					
Comment Code						
Inspector Comment						
DS_ID:20631						
FS_ID:18348						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Recent work being done on WS slope. Pipe may still be in use.						
FIELD_STRUCT_DESC: 10-inch steel drainage pipe through the levee, 6 feet below the crown. Pump not found on the landside (LS).						
[Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 5.50)].						
FS Date: 8/23/2013						

Photo 3 of 3 : UCIP\_FA\_2019\_18348\_30704.jpg



No flap gate on end of pipe at WS toe.

LM Start	5.43	Rating **	C	Issue No.	167
LM End	5.43	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.880320 °	37.880320 °
				-121.333266 °	-121.333266 °
DWR ID	RD0524U01RM45.97				
Comment Code					
Inspector Comment					
Site ID: RD0524U01RM45.97 10/29/2019: No new erosion was found at the repaired site. 09/13/2017: The erosion site has been repaired. No new erosion was found at the repaired site. 07/25/2016: No significant change observed. 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: The erosion seems to be getting worse. More material sloughing visible. 08/07/2012: The erosion is underneath an irrigation pipe. The likely cause of the erosion is the pipe leakage.					

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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	5.44	Rating **	M	Issue No.	73
LM End	5.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.880085 °	37.880085 °
				-121.333045 °	-121.333045 °
DWR ID	DWR_RD0524_01_s_2012_73				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed trees on landside slope.					

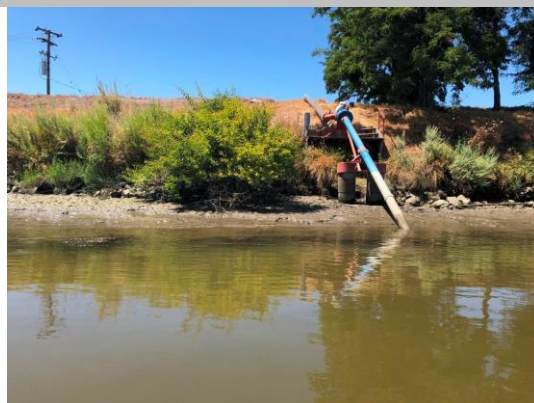
Photo 1 of 1 : FA\_2019\_RD0524\_107\_73\_20190830\_00095.jpg



Looking southwest at large untrimmed tree on landward slope.

LM Start	5.53	Rating **	M	Issue No.	71
LM End	5.53	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.878920 °	37.878920 °
				-121.332670 °	-121.332670 °
DWR ID	RD0524U01RM46.06				
Comment Code					
Inspector Comment					
Site ID: RD0524U01RM46.06					
08/13/2019: No significant change observed. More vegetation was observed at the site.					
09/13/2017: No significant change observed.					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: Larger trees are at the levee shoulder, and an irrigation pump station is next to the erosion site.					

Photo 1 of 2 : SJR2019\_RD0524U01RM46.06\_1.JPG



Front view of the erosion.

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

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	5.53	Rating **	M	Issue No.	71 (cont)	
LM End	5.53	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.878920 °		37.878920 °
				-121.332670 °		-121.332670 °
DWR ID	RD0524U01RM46.06					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM46.06 08/13/2019: No significant change observed. More vegetation was observed at the site. 09/13/2017: No significant change observed. 07/25/2016: No significant change observed. 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: Larger trees are at the levee shoulder, and an irrigation pump station is next to the erosion site.						

Photo 2 of 2 : SJR2019\_RD0524U01RM46.06\_4.JPG



Close-up view of the site.

LM Start	5.66	Rating **	M	Issue No.	117
LM End	5.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.877100 °	37.877100 °
				-121.332323 °	-121.332323 °
DWR ID	DWR_RD0524_01_f _ 2013_117				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_117\_20190830\_00130.jpg



Looking northwest at untrimmed tree on landward slope.

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

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	5.66	Rating **	M	Issue No.	140
LM End	5.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.877075 °	37.877075 °
				-121.332322 °	-121.332322 °
DWR ID	DWR_RD0524_01_s_2019_140				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	5.69	Rating **	M	Issue No.	141
LM End	5.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.876637 °	37.876637 °
				-121.332393 °	-121.332393 °
DWR ID	DWR_RD0524_01_s_2019_141				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_141\_20191117\_00376.jpg



View of multiple rodent holes on landside slope. Fall 2019

LM Start	5.70	Rating **	U	Issue No.	175
LM End	5.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.876417 °	37.876417 °
				-121.332505 °	-121.332505 °
DWR ID	DWR_RD0524_01_s_2017_175				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 2 : FA\_2019\_RD0524\_107\_175\_20190830\_00157.jpg



Looking southwest at the landside slope.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

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

**+ Issue Type**

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	5.70	Rating **	U	Issue No.	175 (cont)	
LM End	5.70	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			37.876417 °	37.876417 °	
				-121.332505 °	-121.332505 °	
DWR ID	DWR_RD0524_01_s_2017_175					
Comment Code						
PR : Prunings						
Inspector Comment						

Photo 2 of 2 : FA\_2019\_RD0524\_107\_175\_20190830\_00158.jpg



Looking south at large pruning pile at landward toe.

LM Start	5.74	Rating **	M	Issue No.	964	
LM End	5.74	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.876001 °	37.876001 °	
				-121.332725 °	-121.332725 °	
DWR ID	20649					
Comment Code						
Inspector Comment						
DS_ID:20649 FS_ID:18364 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned and should be done so properly. FIELD_STRUCT_DESC: 2.25-inch steel conduit for a 1-inch plastic electrical conduit through the levee, 0.25 feet below the crown. Lines exposed on both slopes. [Additional Reference(s): DWR Levee Log, 2004]. FS Date: 8/23/2013						

Photo 1 of 2 : UCIP\_FA\_2019\_18364\_30761.jpg



Steel conduit and electrical conduit visible on the LS shoulder.

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

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	5.74	Rating **	M	Issue No.	964 (cont)	
LM End	5.74	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.876001 °	37.876001 °	
				-121.332725 °	-121.332725 °	
DWR ID	20649					
Comment Code						
Inspector Comment						
DS_ID:20649 FS_ID:18364 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned and should be done so properly. FIELD_STRUCT_DESC: 2.25-inch steel conduit for a 1-inch plastic electrical conduit through the levee, 0.25 feet below the crown. Lines exposed on both slopes. [Additional Reference(s): DWR Levee Log, 2004]. FS Date: 8/23/2013						

Photo 2 of 2 : UCIP\_FA\_2019\_18364\_30760.jpg



Steel conduit and electrical conduit visible on the WS shoulder.

LM Start	5.74	Rating **	M	Issue No.	965
LM End	5.74	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			37.876001 °	37.876001 °
				-121.332725 °	-121.332725 °
DWR ID	20635				
Comment Code					
Inspector Comment					
DS_ID:20635 FS_ID:40793 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Appears abandoned and if so should be done so properly. No permit identified for this crossing. FIELD_STRUCT_DESC: *ABANDONED* 1-inch steel water line through the levee, 1 foot below the crown. Pipe visible only on the landside (LS) shoulder. FS Date: 8/23/2013					

Photo 1 of 1 : UCIP\_FA\_2019\_40793\_30781.jpg



Steel waterline visible on LS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> 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. 0524 Middle Roberts Island



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	5.77	Rating **	M	Issue No.	197 (cont)
LM End	5.79	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.875545°	37.875310°
				-121.332952°	-121.333065°
DWR ID	DWR_RD0524_01_f_2019_197				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes on landside slope and levee crown. LMA Backfilled hole but no rodent control measures are in place.					

Photo 2 of 2 : FA\_2019\_RD0524\_107\_197\_20190830\_00178.jpg



Looking southwest at typical view of rodent hole at landward shoulder.

LM Start	5.81	Rating **	M	Issue No.	966	
LM End	5.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			37.874972 °		37.874972 °
				-121.333246 °		-121.333246 °
DWR ID	20636					
Comment Code						
Inspector Comment						
DS_ID:20636						
FS_ID:18369						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Apparent leak on WS shoulder at concrete riser.						
Erosion under pipe. This may have been fixed when the pipe was sleeved with a PVC liner.						
FIELD_STRUCT_DESC: 10-inch steel drainage pipe through the levee, 5 feet below the crown. Pump on the landside (LS). Siphon breaker in a 36-inch concrete riser unit on the waterside (WS) shoulder. Power pole at the LS toe. Polyvinyl chloride liner sleeved inside steel pipe.						
[Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 5.88)].						
FS Date: 8/23/2013						

Photo 1 of 2 : UCIP\_FA\_2019\_18369\_30785.jpg



Concrete standpipe over pipe on WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	5.81	Rating **	M	Issue No.	966 (cont)	
LM End	5.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			37.874972°	37.874972°	
				-121.333246°	-121.333246°	
DWR ID	20636					
Comment Code						
Inspector Comment						
DS_ID:20636 FS_ID:18369 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Apparent leak on WS shoulder at concrete riser. Erosion under pipe. This may have been fixed when the pipe was sleeved with a PVC liner. FIELD_STRUCT_DESC: 10-inch steel drainage pipe through the levee, 5 feet below the crown. Pump on the landside (LS). Siphon breaker in a 36-inch concrete riser unit on the waterside (WS) shoulder. Power pole at the LS toe. Polyvinyl chloride liner sleeved inside steel pipe. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 5.88)]. FS Date: 8/23/2013						

Photo 2 of 2 : UCIP\_FA\_2019\_18369\_30784.jpg



Pipe, pump, power pole, and meter off LS toe.

LM Start	5.82	Rating **	M	Issue No.	967
LM End	5.82	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			37.874829°	37.874829°
				-121.333265°	-121.333265°
DWR ID	20656				
Comment Code					
Inspector Comment					
DS_ID:20656 FS_ID:18705 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to verify gasline exists and if so improve signage. FIELD_STRUCT_DESC: Gas line marker sign on the waterside (WS) shoulder. FS Date: 8/23/2013					

Photo 1 of 1 : UCIP\_FA\_2019\_18705\_31249.jpg



Gasline marker on WS shoulder.

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

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	5.86	Rating **	M	Issue No.	75
LM End	5.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.874240 °	37.874002 °
				-121.333187 °	-121.333027 °
DWR ID	DWR_RD0524_01_s_2012_75				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
District has grouted rodent holes, but other rodent holes have appeared. Active rodents in area.					

Photo 1 of 2 : FA\_2019\_RD0524\_107\_75\_20190830\_00096.jpg



Looking southwest at typical rodent holes on waterward slope.

LM Start	<b>5.86</b>	Rating **	M	Issue No.	<b>75 (cont)</b>
LM End	<b>5.88</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2019\_RD0524\_107\_75\_20190830\_00097.jpg



Looking typical view of several rodent holes on landward slope and toe.

LM Start	5.87	Rating **	M	Issue No.	273
LM End	5.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.874196°	37.874196°
				-121.333195°	-121.333195°
DWR ID	DWR_RD0524_01_f_2017_273				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	5.87	Rating **	M	Issue No.	968	
LM End	5.87	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			37.874194 °		37.874194 °
				-121.333182 °		-121.333182 °
DWR ID	20638					
Comment Code						
Inspector Comment						
DS_ID:20638 FS_ID:18379 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy erosion around pipe upstream of standpipe on LS slope. Verify pipe is not leaking and repair erosion on LS slope. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 10 feet below the crown. Slant pump on pier at the waterside (WS) toe. 10-inch steel standpipe on the landside (LS) slope. 42-inch concrete standpipe on the LS slope. Filter plant and power pole on the LS toe. 1.5-inch galvanized iron electrical conduit at same location. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 5.93)]. FS Date: 8/23/2013						

LM Start	<b>5.87</b>	Rating **	M	Issue No.	<b>968 (cont)</b>
LM End	<b>5.87</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2019\_18379\_30829.jpg



Butterfly valves and standpipes on LS slope along with electrical conduit.

Photo 2 of 3 : UCIP\_FA\_2019\_18379\_30828.jpg



Slant pump on WS 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	<b>N : Not Inspected/Rated</b> 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	5.87	Rating **	M	Issue No.	968 (cont)	
LM End	5.87	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			37.874194 °		37.874194 °
				-121.333182 °		-121.333182 °
DWR ID	20638					
Comment Code						
Inspector Comment						
DS_ID:20638 FS_ID:18379 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy erosion around pipe upstream of standpipe on LS slope. Verify pipe is not leaking and repair erosion on LS slope. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 10 feet below the crown. Slant pump on pier at the waterside (WS) toe. 10-inch steel standpipe on the landside (LS) slope. 42-inch concrete standpipe on the LS slope. Filter plant and power pole on the LS toe. 1.5-inch galvanized iron electrical conduit at same location. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 5.93)]. FS Date: 8/23/2013						

Photo 3 of 3 : UCIP\_FA\_2019\_18379\_30827.jpg



Filter pump on LS toe.

LM Start	5.87	Rating **	U	Issue No.	79
LM End	5.87	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.874185 °	37.874185 °
				-121.333110 °	-121.333110 °
DWR ID	RD0524U01RM46.39				
Comment Code					
Inspector Comment					
Site ID: RD0524U01RM46.39					
08/13/2019: No significant change observed.					
09/13/2017: No significant change observed.					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The erosion is near a water-intake structure. Pipe leakage likely caused the erosion.					

Photo 1 of 2 : SJR2019\_RD0524U01RM46.39\_1.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 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	5.87	Rating **	U	Issue No.	79 (cont)	
LM End	5.87	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.874185 °	37.874185 °	
				-121.333110 °	-121.333110 °	
DWR ID	RD0524U01RM46.39					
Comment Code						
Inspector Comment						
Site ID: RD0524U01RM46.39						
08/13/2019: No significant change observed.						
09/13/2017: No significant change observed.						
07/25/2016: No significant change observed.						
06/24/2015: No significant change observed.						
06/19/2014: No significant change observed.						
08/13/2013: No significant change observed.						
08/07/2012: The erosion is near a water-intake structure. Pipe leakage likely caused the erosion.						

Photo 2 of 2 : SJR2019\_RD0524U01RM46.39\_3.jpg



Close-up view of the erosion.

LM Start	5.87	Rating **	M	Issue No.	98
LM End	5.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.874085 °	37.874085 °
				-121.333154 °	-121.333154 °
DWR ID	DWR_RD0524_01_s_2012_98				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed walnut tree on landside slope.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_98\_20190830\_00122.jpg



Looking west at walnut tree on landward slope.

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

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	5.92	Rating **	U	Issue No.	200
LM End	5.92	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.873623 °	37.873623 °
				-121.332585 °	-121.332585 °
DWR ID	DWR_RD0524_01_f_2015_200				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Oleander bush on landside slope.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_200\_20190830\_00183.jpg



Looking south at oleander on landward slope fall 2015.

LM Start	5.94	Rating **	M	Issue No.	87
LM End	5.95	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.873545 °	37.873445 °
				-121.332308 °	-121.332127 °
DWR ID	DWR_RD0524_01_s_2012_87				
Comment Code					
FE : Fence					
Inspector Comment					

No Photos

LM Start	5.94	Rating **	U	Issue No.	88
LM End	5.95	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.873543 °	37.873445 °
				-121.332308 °	-121.332127 °
DWR ID	DWR_RD0524_01_s_2012_88				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Cactus and Century plants on landside slope and toe.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_88\_20190830\_00109.jpg



Looking southeast at fence and cactus on landside slope and toe.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

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

**+ Issue Type**

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	6.00	Rating **	M	Issue No.	274
LM End	6.00	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.872993 °	37.872993 °
				-121.331295 °	-121.331295 °
DWR ID	DWR_RD0524_01_f_2017_274				
Comment Code					
BU : Building					
Inspector Comment					
Chicken coops at landside toe.					

No Photos

LM Start	6.08	Rating **	M	Issue No.	272
LM End	6.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.872121°	37.872121°
				-121.330568°	-121.330568°
DWR ID	DWR_RD0524_01_f_2017_272				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	6.08	Rating **	M	Issue No.	147
LM End	6.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.872017 °	37.872017 °
				-121.330487 °	-121.330487 °
DWR ID	DWR_RD0524_01_f_2018_147				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion around and near pipe on landward slope.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_147\_20190830\_00134.jpg



Looking at landward erosion. (Fall 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	6.11	Rating **	U	Issue No.	142
LM End	6.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.871631 °	37.871631 °
				-121.330332 °	-121.330332 °
DWR ID	DWR_RD0524_01_s_2019_142				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation within landside easement blocking visibility.					

Photo 1 of 1 : FA\_2019\_RD0524\_107\_142\_20190830\_00133.jpg



Dense vegetation on landside toe. Spring 2019.

LM Start	6.15	Rating **	M	Issue No.	969	
LM End	6.15	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			37.871138 °	37.871138 °	
				-121.330146 °	-121.330146 °	
DWR ID	20641					
Comment Code						
Inspector Comment						
DS_ID:20641						
FS_ID:18392						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe and pump abandoned and should be done so properly.						
FIELD_STRUCT_DESC: *ABANDONED* 10-inch irrigation pipe of an unknown material through the levee, 12 feet below the crown. Pump on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 6.22)].						
FS Date: 8/23/2013						

Photo 1 of 2 : UCIP\_FA\_2019\_18392\_30910.jpg



Pump and open pipe visible on WS 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	6.15	Rating **	M	Issue No.	969 (cont)
LM End	6.15	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			37.871138 °	37.871138 °
				-121.330146 °	-121.330146 °
DWR ID	20641				
Comment Code					
Inspector Comment					
DS_ID:20641 FS_ID:18392 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe and pump abandoned and should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 10-inch irrigation pipe of an unknown material through the levee, 12 feet below the crown. Pump on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin O&M Manual 7, April 1964, (HLM 6.22)]. FS Date: 8/23/2013					

Photo 2 of 2 : UCIP\_FA\_2019\_18392\_30909.jpg



Pipe and concrete standpipe visible on LS toe.

LM Start	6.15	Rating **	M	Issue No.	970
LM End	6.15	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			37.871118°	37.871118°
				-121.330137°	-121.330137°
DWR ID	24052				
Comment Code					
Inspector Comment					
DS_ID:24052 FS_ID:22073 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned and should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 1.75-inch galvanized iron electrical conduit through the levee, 1 foot below the crown. Power pole on the landside (LS) toe. FS Date: 8/23/2013					

Photo 1 of 2 : UCIP\_FA\_2019\_22073\_37670.jpg



Pipe visible on LS 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 - Fall 2019**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	10/02/2019 11/14/2019	Alberto De Leon

LM Start	6.15	Rating **	M	Issue No.	970 (cont)
LM End	6.15	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			37.871118 °	37.871118 °
				-121.330137 °	-121.330137 °
DWR ID	24052				
Comment Code					
Inspector Comment					
DS_ID:24052 FS_ID:22073 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned and should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 1.75-inch galvanized iron electrical conduit through the levee, 1 foot below the crown. Power pole on the landside (LS) toe. FS Date: 8/23/2013					

Photo 2 of 2 : UCIP\_FA\_2019\_22073\_37669.jpg



Pipe visible on WS slope.

LM Start	6.15	Rating **	M	Issue No.	81
LM End	6.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.871097°	37.871097°
				-121.330100°	-121.330100°
DWR ID	DWR_RD0524_01_s_2015_81				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree branches and limbs on landside slope.					

Photo 1 of 2 : FA\_2019\_RD0524\_107\_81\_20190830\_00104.jpg



Looking west at tree branches and limbs left on landward shoulder and slope. (Spring 2016)

<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>N : Not Inspected/Rated</b> 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. 0524 Middle Roberts Island

Looking west at prunings at landward toe and berm.

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