

**Flood Control Project Maintenance  
Levee Inspections**

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

### Reclamation District No. 0524 Middle Roberts Island

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River		Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>0.00</b>	Rating **	U	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				
Action/Comments					
Inspector Comments: The LMA does not have a copy of the O&M Manual on file.					

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				
Action/Comments					
Inspector Comments: 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				
Action/Comments					
Inspector Comments: The LMA does not appear to have emergency supplies or equipment.					

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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>0.19</b>	Rating **	U	Issue No.	<b>129</b>
LM End	<b>0.19</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.939085 °	37.939085 °
				-121.343917 °	-121.343917 °
DWR ID	DWR_RD0524_01_s_2015_129				
Action/Comments					
Inspector Comments: 6/19/2014: 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. [2014 Site ID:RD0524U01RM40.85]					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_129\_20150309\_00129.jpg



Close view of the erosion.

LM Start	<b>0.21</b>	Rating **	M	Issue No.	<b>3</b>
LM End	<b>0.21</b>	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.938890 °	37.938890 °
				-121.343657 °	-121.343657 °
DWR ID	DWR_RD0524_01_s_2012_3				
Action/Comments					
Repair depressions or ruts in the crown or slope. Inspector Comments: No change in status.					

Photo 1 of 3 : SP\_2015\_RD0524\_107\_3\_20150309\_00006.jpg



Looking west at 3" depression on levee crown. (Spring 2012)

LM Start	<b>0.21</b>	Rating **	M	Issue No.	<b>3 (cont)</b>
LM End	<b>0.21</b>	Issue Type +	Ma	Location *	CR

Photo 2 of 3 : SP\_2015\_RD0524\_107\_3\_20150309\_00007.jpg



Looking west at depression on levee crown near waterward 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>0.21</b>	Rating **	M	Issue No.	<b>3 (cont)</b>
LM End	<b>0.21</b>	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.938890 °	37.938890 °
				-121.343657 °	-121.343657 °
DWR ID	DWR_RD0524_01_s_2012_3				
Action/Comments					
Repair depressions or ruts in the crown or slope. Inspector Comments: No change in status.					

Photo 3 of 3 : SP\_2015\_RD0524\_107\_3\_20150309\_00008.jpg



Looking east at 3" depression on levee crown. (Spring 2012)

LM Start	<b>0.27</b>	Rating **	U	Issue No.	<b>179</b>
LM End	<b>0.27</b>	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				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 2 : SP\_2015\_RD0524\_107\_179\_20150424\_00204.jpg



Looking north at untrimmed tree on waterward slope. (Spring 2015)

LM Start	<b>0.27</b>	Rating **	U	Issue No.	<b>179 (cont)</b>
LM End	<b>0.27</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2015\_RD0524\_107\_179\_20150309\_00146.jpg



Looking south at untrimmed tree on waterward slope. (Fall 2014)

<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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>0.30</b>	Rating **	U	Issue No.	<b>174</b>
LM End	<b>0.30</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.938382 °	37.938382 °	
			-121.342352 °	-121.342352 °	
DWR ID	DWR_RD0524_01_f_2014_174				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Several rodent holes present at this site.					

Photo 1 of 2 : SP\_2015\_RD0524\_107\_174\_20150424\_00205.jpg



Looking west at several rodent holes on waterward shoulder. (Spring 2015)

LM Start	<b>0.30</b>	Rating **	U	Issue No.	<b>174 (cont)</b>
LM End	<b>0.30</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2015\_RD0524\_107\_174\_20150309\_00144.jpg



Looking southeast at several rodent holes on waterward slope.

LM Start	<b>0.34</b>	Rating **	M	Issue No.	<b>180</b>
LM End	<b>0.34</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.938461 °	37.938461 °	
			-121.341626 °	-121.341626 °	
DWR ID	DWR_RD0524_01_s_2014_180				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Erosion is located along the lower level of waterward slope.					

Photo 1 of 2 : SP\_2015\_RD0524\_107\_180\_20150309\_00147.jpg



Looking southeast at erosion on waterward toe.

<b>* Location</b> LS : Land Side 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>0.34</b>	Rating **	M	Issue No.	<b>180 (cont)</b>
LM End	<b>0.34</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.938461 °	37.938461 °
				-121.341626 °	-121.341626 °
DWR ID	DWR_RD0524_01_s_2014_180				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Erosion is located along the lower level of waterward slope.					

Photo 2 of 2 : SP\_2015\_RD0524\_107\_180\_20150309\_00148.jpg



Looking northeast at erosion on waterward toe.

LM Start	<b>0.40</b>	Rating **	U	Issue No.	<b>131</b>
LM End	<b>0.40</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.938870 °	37.938870 °
				-121.340460 °	-121.340460 °
DWR ID	DWR_RD0524_01_s_2015_131				
Action/Comments					
Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: No significant change at this site. 8/7/2012: The erosion is at the upper levee slope, and likely caused by slope slip. The lower levee slope is covered with dense vegetation. [2014 Site ID:RD0524U01RM40.99] 4/21/2015 Site repaired.					

Photo 1 of 2 : SP\_2015\_RD0524\_107\_131\_20150424\_00206.jpg



Looking east at repaired site.

LM Start	<b>0.40</b>	Rating **	U	Issue No.	<b>131 (cont)</b>
LM End	<b>0.40</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2015\_RD0524\_107\_131\_20150309\_00130.jpg



Front view of the erosion site. Note the vegetation at the levee toe and lower slope.

<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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>0.41</b>	Rating **	M	Issue No.	<b>170</b>
LM End	<b>0.65</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.938628 °	37.938015 °
				-121.340385 °	-121.336165 °
DWR ID	DWR_RD0524_01_s_2015_170				
Action/Comments					
Repair slope instability. Inspector Comments: Several slope instabilities within this reach.					

Photo 1 of 2 : SP\_2015\_RD0524\_107\_170\_20150424\_00207.jpg



Looking south at slope damage on waterward shoulder.

LM Start	<b>0.41</b>	Rating **	M	Issue No.	<b>170 (cont)</b>
LM End	<b>0.65</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2015\_RD0524\_107\_170\_20150424\_00208.jpg



Looking west at waterward slope erosion.

LM Start	<b>0.62</b>	Rating **	M	Issue No.	<b>11</b>
LM End	<b>0.63</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.938278 °	37.938247 °
				-121.336524 °	-121.336503 °
DWR ID	DWR_RD0524_01_s_2012_11				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Bamboo on waterward slope.					

Photo 1 of 3 : SP\_2015\_RD0524\_107\_11\_20150309\_00013.jpg



Looking southeast at bamboo on waterside slope. (Spring 2012)

<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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>0.62</b>	Rating **	M	Issue No.	<b>11 (cont)</b>
LM End	<b>0.63</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.938278 °	37.938247 °	
			-121.336524 °	-121.336503 °	
DWR ID	DWR_RD0524_01_s_2012_11				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Bamboo on waterward slope.					

Photo 2 of 3 : SP\_2015\_RD0524\_107\_11\_20150309\_00014.jpg



Looking south at dying bamboo on waterward slope. (Spring 2013)

LM Start	<b>0.62</b>	Rating **	M	Issue No.	<b>11 (cont)</b>
LM End	<b>0.63</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2015\_RD0524\_107\_11\_20150309\_00015.jpg



Looking south at bamboo on waterside slope. (Fall Inspection 2012)

LM Start	<b>0.63</b>	Rating **	M	Issue No.	<b>10</b>
LM End	<b>0.63</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.938247 °	37.938247 °	
			-121.336503 °	-121.336503 °	
DWR ID	DWR_RD0524_01_s_2012_10				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_10\_20150309\_00012.jpg



Looking east at waterside erosion appears to be caused by runoff.

<b>* Location</b> LS : Land Side 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 Inspections**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>0.64</b>	Rating **	M	Issue No.	<b>13</b>
LM End	<b>0.65</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.938105 °	37.938023 °	
			-121.336288 °	-121.336173 °	
DWR ID	DWR_RD0524_01_s_2012_13				
Action/Comments					
Repair slope instability. Inspector Comments: Erosion extends from mid levee slope to shoulder.					

Photo 1 of 3 : SP\_2015\_RD0524\_107\_13\_20150309\_00017.jpg



View of the erosion.

LM Start	<b>0.64</b>	Rating **	M	Issue No.	<b>13 (cont)</b>
LM End	<b>0.65</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP\_2015\_RD0524\_107\_13\_20150309\_00018.jpg



Looking south at erosion on waterside shoulder.

LM Start	<b>0.64</b>	Rating **	M	Issue No.	<b>13 (cont)</b>
LM End	<b>0.65</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2015\_RD0524\_107\_13\_20150309\_00019.jpg



Update 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  
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>0.67</b>	Rating **	M	Issue No.	<b>14</b>
LM End	<b>0.67</b>	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				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Bamboo on waterward slope.					

Photo 1 of 3 : SP\_2015\_RD0524\_107\_14\_20150309\_00020.jpg



Looking southeast at bamboo on waterside shoulder as of 4/2010.

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

Photo 2 of 3 : SP\_2015\_RD0524\_107\_14\_20150309\_00021.jpg



Looking south at dying bamboo on waterward slope. (Spring 2013)

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

Photo 3 of 3 : SP\_2015\_RD0524\_107\_14\_20150309\_00022.jpg



Looking south at bamboo on waterside slope. (Fall 2012)

<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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>0.76</b>	Rating **	U	Issue No.	<b>132</b>
LM End	<b>0.76</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.936821 °	37.936821 °
				-121.334582 °	-121.334582 °
DWR ID	DWR_RD0524_01_s_2015_132				
Action/Comments					
Inspector Comments: 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 1 of 1 : SP\_2015\_RD0524\_107\_132\_20150309\_00131.jpg



Front view of the erosion site. Vegetation is visible.

LM Start	<b>0.77</b>	Rating **	M	Issue No.	<b>262</b>
LM End	<b>0.77</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.936555 °	37.936555 °
				-121.334847 °	-121.334847 °
DWR ID	DWR_RD0524_01_s_2012_262				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dense vegetation at landside toe along fence line.					

Photo 1 of 2 : SP\_2015\_RD0524\_107\_262\_20150309\_00155.jpg



Looking southwest at vegetation on landward slope and toe. (Spring 2013)

LM Start	<b>0.77</b>	Rating **	M	Issue No.	<b>262 (cont)</b>
LM End	<b>0.77</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2015\_RD0524\_107\_262\_20150309\_00156.jpg



Looking west at dense vegetation on landside 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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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>0.78</b>	Rating **	M	Issue No.	<b>76</b>
LM End	<b>0.78</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.936444 °	37.936444 °
				-121.334797 °	-121.334797 °
DWR ID	DWR_RD0524_01_s_2012_76				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_76\_20150309\_00088.jpg



Looking southwest at low hanging tree branches at landside toe.

LM Start	<b>0.81</b>	Rating **	U	Issue No.	<b>2</b>
LM End	<b>0.81</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.936093 °	37.936004 °
				-121.334648 °	-121.334615 °
DWR ID	DWR_RD0524_01_f_2013_2				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Several holes and finger erosions on landward slope.					

Photo 1 of 5 : SP\_2015\_RD0524\_107\_2\_20150309\_00001.jpg



Looking southwest at hole on landward shoulder.

LM Start	<b>0.81</b>	Rating **	U	Issue No.	<b>2 (cont)</b>
LM End	<b>0.81</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 5 : SP\_2015\_RD0524\_107\_2\_20150309\_00002.jpg



Looking west at hole on landward 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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Levee Inspections**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>0.81</b>	Rating **	U	Issue No.	<b>2 (cont)</b>
LM End	<b>0.81</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.936093 °	37.936004 °
				-121.334648 °	-121.334615 °
DWR ID	DWR_RD0524_01_f_2013_2				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Several holes and finger erosions on landward slope.					

Photo 3 of 5 : SP\_2015\_RD0524\_107\_2\_20150309\_00003.jpg



Looking southeast at finger erosion on landward slope.

LM Start	<b>0.81</b>	Rating **	U	Issue No.	<b>2 (cont)</b>
LM End	<b>0.81</b>	Issue Type +	Ma	Location *	LS

Photo 4 of 5 : SP\_2015\_RD0524\_107\_2\_20150309\_00004.jpg



Looking east at erosion on landward slope.

LM Start	<b>0.81</b>	Rating **	U	Issue No.	<b>2 (cont)</b>
LM End	<b>0.81</b>	Issue Type +	Ma	Location *	LS

Photo 5 of 5 : SP\_2015\_RD0524\_107\_2\_20150309\_00005.jpg



Looking northeast at several finger erosion on landward slope.

<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**

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

### Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>0.83</b>	Rating **	U	Issue No.	<b>133</b>
LM End	<b>0.83</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.935930 °	37.935930 °
				-121.334133 °	-121.334133 °
DWR ID	DWR_RD0524_01_s_2015_133				
Action/Comments					
Inspector Comments: 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. [2014 Site ID:RD0524U01RM41.44]					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_133\_20150309\_00132.jpg



Close view of the site. Dense vegetation covers the erosion.

LM Start	<b>0.91</b>	Rating **	U	Issue No.	<b>134</b>
LM End	<b>0.91</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.935576 °	37.935576 °
				-121.333202 °	-121.333202 °
DWR ID	DWR_RD0524_01_s_2015_134				
Action/Comments					
Inspector Comments: 6/19/2014: 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. [2014 Site ID:RD0524U01RM41.5]					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_134\_20150309\_00133.jpg



Front view of the erosion. Note the riprap protection near the site.

LM Start	<b>0.92</b>	Rating **	M	Issue No.	<b>122</b>
LM End	<b>0.92</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.935267 °	37.935267 °
				-121.332985 °	-121.332985 °
DWR ID	DWR_RD0524_01_s_2013_122				
Action/Comments					
Pipe Inspector Comments: Inch and half metal pipe should be removed.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_122\_20150309\_00124.jpg



Looking northwest at inch and half metal pipe on waterward slope.

<b>* Location</b> LS : Land Side 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>0.93</b>	Rating **	M	Issue No.	<b>77</b>
LM End	<b>1.01</b>	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				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_77\_20150309\_00089.jpg



Looking south at low hanging tree branches at landside toe.

LM Start	<b>0.96</b>	Rating **	A/W	Issue No.	<b>20</b>
LM End	<b>0.96</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.935181 °	37.935181 °
				-121.332297 °	-121.332297 °
DWR ID	DWR_RD0524_01_f_2013_20				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

LM Start	<b>1.00</b>	Rating **	U	Issue No.	<b>135</b>
LM End	<b>1.00</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.935410 °	37.935410 °
				-121.331560 °	-121.331560 °
DWR ID	DWR_RD0524_01_s_2015_135				
Action/Comments					
Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: No significant change at this site. 08/07/2012: The erosion was discovered during the boat survey. [2014 Site ID:RD0524U01RM41.58]					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_135\_20150309\_00134.jpg



Close view of the erosion.

<b>* Location</b> LS : Land Side 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>1.00</b>	Rating **	M	Issue No.	<b>17</b>
LM End	<b>1.02</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.935098 °	37.935018 °
				-121.331645 °	-121.331248 °
DWR ID	DWR_RD0524_01_s_2012_17				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Minor erosion was noted next to repaired site.					

Photo 1 of 3 : SP\_2015\_RD0524\_107\_17\_20150309\_00023.jpg



Looking upstream (south) at erosion site.

LM Start	<b>1.00</b>	Rating **	M	Issue No.	<b>17 (cont)</b>
LM End	<b>1.02</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP\_2015\_RD0524\_107\_17\_20150309\_00024.jpg



Looking southeast at erosion next to repaired site on waterward slope (Spring 2013)

LM Start	<b>1.00</b>	Rating **	M	Issue No.	<b>17 (cont)</b>
LM End	<b>1.02</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2015\_RD0524\_107\_17\_20150309\_00025.jpg



Looking north at erosion site next to repaired site. (Spring 2012)

<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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>1.00</b>	Rating **	U	Issue No.	<b>139</b>
LM End	<b>1.00</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.935326 °	37.935326 °
				-121.331537 °	-121.331537 °
DWR ID	DWR_RD0524_01_s_2015_139				
Action/Comments					
Inspector Comments: 6/19/2014: 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					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_139\_20150309\_00136.jpg



Front view of the site.

LM Start	<b>1.08</b>	Rating **	M	Issue No.	<b>18</b>
LM End	<b>1.08</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.934645 °	37.934645 °
				-121.330310 °	-121.330310 °
DWR ID	DWR_RD0524_01_s_2012_18				
Action/Comments					
Repair slope instability. Inspector Comments: Slope damage extend from shoulder to middle of slope.					

Photo 1 of 6 : SP\_2015\_RD0524\_107\_18\_20150424\_00209.jpg



Looking south at caving on landward shoulder. (Spring 2015)

LM Start	<b>1.08</b>	Rating **	M	Issue No.	<b>18 (cont)</b>
LM End	<b>1.08</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 6 : SP\_2015\_RD0524\_107\_18\_20150309\_00026.jpg



Landward slope damage.

<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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>1.08</b>	Rating **	M	Issue No.	<b>18 (cont)</b>
LM End	<b>1.08</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.934645 °	37.934645 °
				-121.330310 °	-121.330310 °
DWR ID	DWR_RD0524_01_s_2012_18				
Action/Comments					
Repair slope instability. Inspector Comments: Slope damage extend from shoulder to middle of slope.					

Photo 3 of 6 : SP\_2015\_RD0524\_107\_18\_20150309\_00027.jpg



Updated picture of the erosion site on the landside shoulder.

LM Start	<b>1.08</b>	Rating **	M	Issue No.	<b>18 (cont)</b>
LM End	<b>1.08</b>	Issue Type +	Ma	Location *	LS

Photo 4 of 6 : SP\_2015\_RD0524\_107\_18\_20150309\_00028.jpg



Looking south at caving on landside shoulder. (Spring 2012)

LM Start	<b>1.08</b>	Rating **	M	Issue No.	<b>18 (cont)</b>
LM End	<b>1.08</b>	Issue Type +	Ma	Location *	LS

Photo 5 of 6 : SP\_2015\_RD0524\_107\_18\_20150309\_00029.jpg



Looking at updated slope stability as of 4/2010.

<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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>1.08</b>	Rating **	M	Issue No.	<b>18 (cont)</b>
LM End	<b>1.08</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.934645 °	37.934645 °
				-121.330310 °	-121.330310 °
DWR ID	DWR_RD0524_01_s_2012_18				
Action/Comments					
Repair slope instability. Inspector Comments: Slope damage extend from shoulder to middle of slope.					



Updated view from above the slope stability.

LM Start	<b>1.12</b>	Rating **	M	Issue No.	<b>171</b>
LM End	<b>1.16</b>	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				
Action/Comments					
Prunings Inspector Comments: Prunings left on waterward shoulder and slope.					



Looking south at prunings on waterward shoulders.

LM Start	<b>1.13</b>	Rating **	A/W	Issue No.	<b>175</b>
LM End	<b>1.13</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.934171 °	37.934171 °
				-121.329584 °	-121.329584 °
DWR ID	DWR_RD0524_01_f_2014_175				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>1.13</b>	Rating **	M	Issue No.	<b>19</b>
LM End	<b>1.16</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.934118 °	37.933775 °
				-121.329657 °	-121.329305 °
DWR ID	DWR_RD0524_01_s_2012_19				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_19\_20150309\_00031.jpg



Looking northwest at low hanging tree branches at waterside toe.

LM Start	<b>1.16</b>	Rating **	M	Issue No.	<b>915</b>
LM End	<b>1.23</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.933775 °	37.932784 °
				-121.329250 °	-121.328765 °
DWR ID	DWR_RD0524_01_s_2012_915				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_915\_20150309\_00164.jpg



Looking southwest at dense veg. on landside 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>1.30</b>	Rating **	M	Issue No.	<b>33 (cont)</b>
LM End	<b>1.30</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.931948 °	37.931948 °
				-121.328387 °	-121.328387 °
DWR ID	DWR_RD0524_01_s_2012_33				
Action/Comments					
Pipe Inspector Comments: Pipe is not in use and should be properly abandoned.					

Photo 2 of 2 : SP\_2015\_RD0524\_107\_33\_20150309\_00047.jpg



Looking north at broken pipe.

LM Start	<b>1.30</b>	Rating **	U	Issue No.	<b>142</b>
LM End	<b>1.30</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.931858 °	37.931858 °
				-121.328300 °	-121.328300 °
DWR ID	DWR_RD0524_01_s_2015_142				
Action/Comments					
Inspector Comments: 6/19/2014: 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. [2014 Site ID:RD0524U01RM41.92]					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_142\_20150309\_00138.jpg



Front view of the erosion. Note the drainage pipe on the site.

LM Start	<b>1.32</b>	Rating **	M	Issue No.	<b>130</b>
LM End	<b>1.36</b>	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.931658 °	37.931085 °
				-121.328255 °	-121.328112 °
DWR ID	DWR_RD0524_01_s_2013_130				
Action/Comments					
Add appropriate gravel or road base. Grade and compact.					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>1.35</b>	Rating **	U	Issue No.	<b>172</b>
LM End	<b>1.40</b>	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.931143 °	37.930517 °
				-121.328097 °	-121.328072 °
DWR ID	DWR_RD0524_01_s_2015_172				
Action/Comments					
Repair depressions or ruts in the crown or slope. Inspector Comments: Levee crown depression several inches below original crown elevation. Section should be survey to determine proper elevation.					

Photo 1 of 2 : SP\_2015\_RD0524\_107\_172\_20150424\_00211.jpg



Looking east at depression on levee crown.

LM Start	<b>1.35</b>	Rating **	U	Issue No.	<b>172 (cont)</b>
LM End	<b>1.40</b>	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : SP\_2015\_RD0524\_107\_172\_20150424\_00212.jpg



Looking southeast at depression on levee crown.

LM Start	<b>1.39</b>	Rating **	U	Issue No.	<b>143</b>
LM End	<b>1.39</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.930575 °	37.930575 °
				-121.328090 °	-121.328090 °
DWR ID	DWR_RD0524_01_s_2015_143				
Action/Comments					
Inspector Comments: 6/19/2014: 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. [2014 Site ID:RD0524U01RM42.03]					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_143\_20150309\_00139.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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>1.55</b>	Rating **	A/W	Issue No.	<b>23 (cont)</b>
LM End	<b>1.59</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.928388 °	37.927797 °
				-121.328280 °	-121.327854 °
DWR ID	DWR_RD0524_01_s_2012_23				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 3 of 5 : SP\_2015\_RD0524\_107\_23\_20150309\_00036.jpg



Looking east from landward berm at corrected site.

LM Start	<b>1.55</b>	Rating **	A/W	Issue No.	<b>23 (cont)</b>
LM End	<b>1.59</b>	Issue Type +	Ma	Location *	LS

Photo 4 of 5 : SP\_2015\_RD0524\_107\_23\_20150309\_00037.jpg



Looking south from levee crown at corrected site.

LM Start	<b>1.55</b>	Rating **	A/W	Issue No.	<b>23 (cont)</b>
LM End	<b>1.59</b>	Issue Type +	Ma	Location *	LS

Photo 5 of 5 : SP\_2015\_RD0524\_107\_23\_20150309\_00038.jpg



Looking south from levee crown at upstream end of corrected 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>1.58</b>	Rating **	U	Issue No.	<b>173</b>
LM End	<b>1.58</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.927975 °	37.927975 °
				-121.328088 °	-121.328088 °
DWR ID	DWR_RD0524_01_s_2015_173				
Action/Comments					
Trim trees to at least five feet above ground level. Inspector Comments: Tree is located on landward shoulder and crown should be removed.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_173\_20150424\_00213.jpg



Looking northwest at tree on within levee crown.

LM Start	<b>1.59</b>	Rating **	U	Issue No.	<b>145</b>
LM End	<b>1.59</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.927770 °	37.927770 °
				-121.327870 °	-121.327870 °
DWR ID	DWR_RD0524_01_s_2015_145				
Action/Comments					
Inspector Comments: 6/19/2014: 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. [2014 Site ID:RD0524U01RM42.2]					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_145\_20150309\_00141.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	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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>1.59</b>	Rating **	M	Issue No.	<b>136</b>
LM End	<b>1.59</b>	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.927775 °	37.927775 °
				-121.327860 °	-121.327860 °
DWR ID	DWR_RD0524_01_s_2013_136				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Waterward shoulder caving.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_136\_20150309\_00135.jpg



Looking south at depression on levee crown near waterward shoulder.

LM Start	<b>1.60</b>	Rating **	M	Issue No.	<b>24</b>
LM End	<b>1.61</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.927635 °	37.927540 °
				-121.327812 °	-121.327648 °
DWR ID	DWR_RD0524_01_s_2012_24				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Vegetation blocking landward toe.					

Photo 1 of 2 : SP\_2015\_RD0524\_107\_24\_20150309\_00039.jpg



Looking south at vegetation blocking view of landward toe.

LM Start	<b>1.60</b>	Rating **	M	Issue No.	<b>24 (cont)</b>
LM End	<b>1.61</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2015\_RD0524\_107\_24\_20150309\_00040.jpg



Looking north at dense vegetation on the landside and waterside slopes.

<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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>1.60</b>	Rating **	A/W	Issue No.	<b>25</b>
LM End	<b>1.61</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.927635 °	37.927540 °
				-121.327812 °	-121.327648 °
DWR ID	DWR_RD0524_01_s_2012_25				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					



Looking southeast at dense vegetation on the waterside slope.

LM Start	<b>1.62</b>	Rating **	M	Issue No.	<b>26</b>
LM End	<b>1.64</b>	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				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Several erosions along this reach.					



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



Looking east at waterward erosion.

<b>* Location</b> LS : Land Side 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

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
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				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Several erosions along this reach.					

Photo 3 of 3 : SP\_2015\_RD0524\_107\_26\_20150424\_00216.jpg



Looking east at waterward erosion and depression.

LM Start	<b>1.65</b>	Rating **	N	Issue No.	<b>8</b>
LM End	<b>1.68</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.927255 °	37.926855 °
				-121.327137 °	-121.326672 °
DWR ID	DWR_RD0524_01_s_2012_8				
Action/Comments					
Tree stumps. Inspector Comments: Several tree stumps on waterside shoulder.					

No Photos

LM Start	<b>1.67</b>	Rating **	M	Issue No.	<b>45</b>
LM End	<b>1.67</b>	Issue Type +	Ma	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				
Action/Comments					
Stairway Inspector Comments: Stairs and retaining wall					

Photo 1 of 3 : SP\_2015\_RD0524\_107\_45\_20150309\_00062.jpg



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

<b>* Location</b> LS : Land Side 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>1.67</b>	Rating **	M	Issue No.	<b>45 (cont)</b>
LM End	<b>1.67</b>	Issue Type +	Ma	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				
Action/Comments					
Stairway Inspector Comments: Stairs and retaining wall					

Photo 2 of 3 : SP\_2015\_RD0524\_107\_45\_20150309\_00063.jpg



Looking southwest at retaning wall connected to concrete stairs.

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

Photo 3 of 3 : SP\_2015\_RD0524\_107\_45\_20150309\_00064.jpg



Looking west at concrete stairs on waterside slope.

LM Start	<b>1.69</b>	Rating **	M	Issue No.	<b>27</b>
LM End	<b>1.70</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.926728 °	37.926730 °
				-121.326597 °	-121.326508 °
DWR ID	DWR_RD0524_01_s_2012_27				
Action/Comments					
Repair slope instability. Inspector Comments: Slope damage several feet long and greater than one inch deep.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_27\_20150424\_00217.jpg



Looking south at landward slope depression.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N</b> : Not Inspected/Rated <b>C</b> : Corrected <b>A/W</b> : 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>1.73</b>	Rating **	A/W	Issue No.	<b>28</b>
LM End	<b>1.73</b>	Issue Type +	Ma	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				
Action/Comments					
Garbage Inspector Comments: Large pruning piles on landside slope.					

Photo 1 of 2 : SP\_2015\_RD0524\_107\_28\_20150309\_00042.jpg



Looking southwest at trash and a pruning pile on landward berm.

LM Start	<b>1.73</b>	Rating **	A/W	Issue No.	<b>28 (cont)</b>
LM End	<b>1.73</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2015\_RD0524\_107\_28\_20150309\_00043.jpg



Looking at southwest at a pruning pile at landward berm.

LM Start	<b>1.75</b>	Rating **	U	Issue No.	<b>46</b>
LM End	<b>1.76</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.926152 °	37.925993 °
				-121.325927 °	-121.325777 °
DWR ID	DWR_RD0524_01_s_2012_46				
Action/Comments					
Tree or limb Inspector Comments: Downed tree limbs on landward slope.					

Photo 1 of 4 : SP\_2015\_RD0524\_107\_46\_20150309\_00065.jpg



Looking south at tree limbs 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>1.75</b>	Rating **	U	Issue No.	<b>46 (cont)</b>
LM End	<b>1.76</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.926152 °	37.925993 °
				-121.325927 °	-121.325777 °
DWR ID	DWR_RD0524_01_s_2012_46				
Action/Comments					
Tree or limb Inspector Comments: Downed tree limbs on landward slope.					

Photo 2 of 4 : SP\_2015\_RD0524\_107\_46\_20150309\_00066.jpg



Looking southwest at tree limbs on landward slope.

LM Start	<b>1.75</b>	Rating **	U	Issue No.	<b>46 (cont)</b>
LM End	<b>1.76</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : SP\_2015\_RD0524\_107\_46\_20150309\_00067.jpg



Looking south at tree limbs on landward slope.

LM Start	<b>1.75</b>	Rating **	U	Issue No.	<b>46 (cont)</b>
LM End	<b>1.76</b>	Issue Type +	Ma	Location *	LS

Photo 4 of 4 : SP\_2015\_RD0524\_107\_46\_20150309\_00068.jpg



Looking southwest at dense vegetation and low hanging tree branches on landside slope and toe.

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

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>1.76</b>	Rating **	A/W	Issue No.	<b>181</b>
LM End	<b>1.76</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.925972 °	37.925972 °
				-121.325769 °	-121.325769 °
DWR ID	DWR_RD0524_01_s_2014_181				
Action/Comments					
Material Inspector Comments: Landowner stockpiling pallets at landward toe.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_181\_20150309\_00149.jpg



Looking west at wooden pallets at landward toe.

LM Start	<b>1.78</b>	Rating **	A/W	Issue No.	<b>100</b>
LM End	<b>1.78</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.925752 °	37.925752 °
				-121.325592 °	-121.325592 °
DWR ID	DWR_RD0524_01_s_2012_100				
Action/Comments					
Prunings					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_100\_20150309\_00103.jpg



Looking southwest at prunings on landside toe.

LM Start	<b>1.94</b>	Rating **	U	Issue No.	<b>176</b>
LM End	<b>1.94</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.923688 °	37.923688 °
				-121.324223 °	-121.324223 °
DWR ID	DWR_RD0524_01_s_2015_176				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Landward caving (3 x 18" x 5 ) caused by broken sprinklers.					

Photo 1 of 2 : SP\_2015\_RD0524\_107\_176\_20150424\_00218.jpg



Looking west at erosion within landscaping on landward shoulder and 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>1.94</b>	Rating **	U	Issue No.	<b>176 (cont)</b>
LM End	<b>1.94</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.923688 °	37.923688 °
				-121.324223 °	-121.324223 °
DWR ID	DWR_RD0524_01_s_2015_176				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Landward caving (3 x 18" x 5') caused by broken sprinklers.					

Photo 2 of 2 : SP\_2015\_RD0524\_107\_176\_20150424\_00219.jpg



Looking east at erosion within landscaping on landward slope and shoulder.

LM Start	<b>2.08</b>	Rating **	M	Issue No.	<b>183</b>
LM End	<b>2.08</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.922009 °	37.922009 °
				-121.323015 °	-121.323015 °
DWR ID	DWR_RD0524_01_s_2014_183				
Action/Comments					
Elderberries are blocking visibility and flood fight capability. Inspector Comments: Cactus on waterward slope.					

No Photos

LM Start	<b>2.13</b>	Rating **	A/W	Issue No.	<b>6</b>
LM End	<b>2.19</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.921540 °	37.920959 °
				-121.322293 °	-121.321365 °
DWR ID	DWR_RD0524_01_f_2012_6				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

<b>* Location</b> LS : Land Side 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>2.15</b>	Rating **	A/W	Issue No.	<b>30</b>
LM End	<b>2.16</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.921383 °	37.921300 °	
			-121.322043 °	-121.321902 °	
DWR ID	DWR_RD0524_01_s_2012_30				
Action/Comments					
Note and monitor erosion site.					

No Photos

LM Start	<b>2.19</b>	Rating **	M	Issue No.	<b>31</b>
LM End	<b>2.25</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.920992 °	37.920505 °	
			-121.321373 °	-121.320485 °	
DWR ID	DWR_RD0524_01_s_2012_31				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_31\_20150309\_00044.jpg



Looking south slope damage on waterward shoulder and slope.

LM Start	<b>2.19</b>	Rating **	U	Issue No.	<b>146</b>
LM End	<b>2.19</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.920992 °	37.920992 °	
			-121.321370 °	-121.321370 °	
DWR ID	DWR_RD0524_01_s_2015_146				
Action/Comments					
Inspector Comments: 7/22/2014: 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. [2014 Site ID:RD0524U01RM42.79]					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_146\_20150309\_00142.jpg



View from downstream.

<b>* Location</b> LS : Land Side 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>2.25</b>	Rating **	U	Issue No.	<b>147</b>
LM End	<b>2.25</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.920650 °	37.920650 °
				-121.320370 °	-121.320370 °
DWR ID	DWR_RD0524_01_s_2015_147				
Action/Comments					
Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: An irrigation pipe is on site. [2014 Site ID:RD0524U01RM42.84]					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_147\_20150309\_00143.jpg



View from upstream.

LM Start	<b>2.27</b>	Rating **	U	Issue No.	<b>32</b>
LM End	<b>2.28</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.920372 °	37.920273 °
				-121.320230 °	-121.320022 °
DWR ID	DWR_RD0524_01_s_2012_32				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_32\_20150309\_00045.jpg



Looking south at dense veg on landside slope and toe.

LM Start	<b>2.32</b>	Rating **	M	Issue No.	<b>34</b>
LM End	<b>2.33</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.919885 °	37.919703 °
				-121.319713 °	-121.319702 °
DWR ID	DWR_RD0524_01_s_2012_34				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Slope damage caused by walking traffic and using bank as a fishing platform.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_34\_20150309\_00048.jpg



Looking northeast at damage to the slope possibly caused by human activity.

<b>* Location</b> LS : Land Side 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>2.33</b>	Rating **	M	Issue No.	<b>107</b>
LM End	<b>2.33</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.919742 °	37.919742 °	
			-121.319623 °	-121.319623 °	
DWR ID	DWR_RD0524_01_s_2012_107				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	<b>2.38</b>	Rating **	A/W	Issue No.	<b>184</b>
LM End	<b>2.38</b>	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				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	<b>2.41</b>	Rating **	U	Issue No.	<b>35</b>
LM End	<b>2.45</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.918785 °	37.918515 °	
			-121.320417 °	-121.321110 °	
DWR ID	DWR_RD0524_01_s_2012_35				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_35\_20150309\_00049.jpg



Looking southwest at dense vegetation on 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>2.49</b>	Rating **	U	Issue No.	<b>37</b>
LM End	<b>2.50</b>	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				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 4 : SP\_2015\_RD0524\_107\_37\_20150309\_00051.jpg



Looking south at elderberry on landside slope.

LM Start	<b>2.49</b>	Rating **	U	Issue No.	<b>37 (cont)</b>
LM End	<b>2.50</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 4 : SP\_2015\_RD0524\_107\_37\_20150309\_00052.jpg



Looking southwest at dense vegetation on landside toe.

LM Start	<b>2.49</b>	Rating **	U	Issue No.	<b>37 (cont)</b>
LM End	<b>2.50</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : SP\_2015\_RD0524\_107\_37\_20150309\_00053.jpg



Looking north at elderberry and trees on 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>2.49</b>	Rating **	U	Issue No.	<b>37 (cont)</b>
LM End	<b>2.50</b>	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				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 4 of 4 : SP\_2015\_RD0524\_107\_37\_20150309\_00054.jpg



Looking southwest at trees along levee landside toe.

LM Start	<b>2.50</b>	Rating **	U	Issue No.	<b>38</b>
LM End	<b>2.50</b>	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				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 2 : SP\_2015\_RD0524\_107\_38\_20150309\_00055.jpg



Looking north at elderberry on waterside slope.

LM Start	<b>2.50</b>	Rating **	U	Issue No.	<b>38 (cont)</b>
LM End	<b>2.50</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2015\_RD0524\_107\_38\_20150309\_00056.jpg



Looking south at elderberry on waterside slope.

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

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>2.53</b>	Rating **	M	Issue No.	<b>82</b>
LM End	<b>2.56</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.918060 °	37.917667 °
				-121.322384 °	-121.322713 °
DWR ID	DWR_RD0524_01_s_2012_82				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_82\_20150309\_00094.jpg



Looking southwest at damaged landward slope.

LM Start	<b>2.53</b>	Rating **	M	Issue No.	<b>40</b>
LM End	<b>2.53</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.918047 °	37.918047 °
				-121.322415 °	-121.322415 °
DWR ID	DWR_RD0524_01_s_2012_40				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	<b>2.56</b>	Rating **	M	Issue No.	<b>41</b>
LM End	<b>2.56</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.917673 °	37.917673 °
				-121.322718 °	-121.322718 °
DWR ID	DWR_RD0524_01_s_2012_41				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

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**

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

### Reclamation District No. 0524 Middle Roberts Island

Waterway			Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River			Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>2.58</b>	Rating **	M	Issue No.	<b>917</b>
LM End	<b>2.58</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.917475 °	37.917475 °	
			-121.322808 °	-121.322808 °	
DWR ID	DWR_RD0524_01_s_2012_917				
Action/Comments					
Repair the levee slope damaged by livestock and prevent large animal access.					

No Photos

LM Start	<b>2.59</b>	Rating **	M	Issue No.	<b>9</b>
LM End	<b>2.59</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.917228 °	37.917228 °	
			-121.322730 °	-121.322730 °	
DWR ID	DWR_RD0524_01_s_2012_9				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	<b>2.60</b>	Rating **	M	Issue No.	<b>185</b>
LM End	<b>2.64</b>	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				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>2.64</b>	Rating **	M	Issue No.	<b>43</b>
LM End	<b>2.64</b>	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				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	<b>2.65</b>	Rating **	A/W	Issue No.	<b>918</b>
LM End	<b>2.66</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.916718 °	37.916502 °	
			-121.322020 °	-121.321980 °	
DWR ID	DWR_RD0524_01_s_2012_918				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	<b>2.67</b>	Rating **	A/W	Issue No.	<b>44</b>
LM End	<b>2.77</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.916418 °	37.915142 °	
			-121.321963 °	-121.323018 °	
DWR ID	DWR_RD0524_01_s_2012_44				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level. Inspector Comments: Trim over hanging trees at least 12 feet above ground level.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_44\_20150309\_00061.jpg



Looking north at dense trees overhanging levee crown.

<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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>2.68</b>	Rating **	M	Issue No.	<b>21</b>
LM End	<b>2.68</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.916224 °	37.916224 °
				-121.322115 °	-121.322115 °
DWR ID	DWR_RD0524_01_f_2013_21				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Large erosion around irrigation pipe.					

Photo 1 of 2 : SP\_2015\_RD0524\_107\_21\_20150309\_00032.jpg



Looking at erosion around irrigation pipe on waterward slope.

LM Start	<b>2.68</b>	Rating **	M	Issue No.	<b>21 (cont)</b>
LM End	<b>2.68</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2015\_RD0524\_107\_21\_20150309\_00033.jpg



Looking east at erosion around irrigation pipe on waterward slope.

LM Start	<b>2.70</b>	Rating **	A/W	Issue No.	<b>264</b>
LM End	<b>2.70</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.915968 °	37.915968 °
				-121.322275 °	-121.322275 °
DWR ID	DWR_RD0524_01_s_2012_264				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

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

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>2.72</b>	Rating **	M	Issue No.	<b>60</b>
LM End	<b>2.74</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.915747 °	37.915492 °	
			-121.322470 °	-121.322639 °	
DWR ID	DWR_RD0524_01_s_2012_60				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	<b>2.74</b>	Rating **	A/W	Issue No.	<b>70</b>
LM End	<b>2.74</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.915503 °	37.915503 °	
			-121.322745 °	-121.322745 °	
DWR ID	DWR_RD0524_01_s_2012_70				
Action/Comments					
Tree or limb Inspector Comments: Broken tree branch.					

No Photos

LM Start	<b>2.80</b>	Rating **	U	Issue No.	<b>48</b>
LM End	<b>2.80</b>	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				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 2 : SP\_2015\_RD0524\_107\_48\_20150309\_00069.jpg



Looking south at dense elderberry on landside slope.(Spring 2012)

<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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>2.80</b>	Rating **	U	Issue No.	<b>48 (cont)</b>
LM End	<b>2.80</b>	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				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					



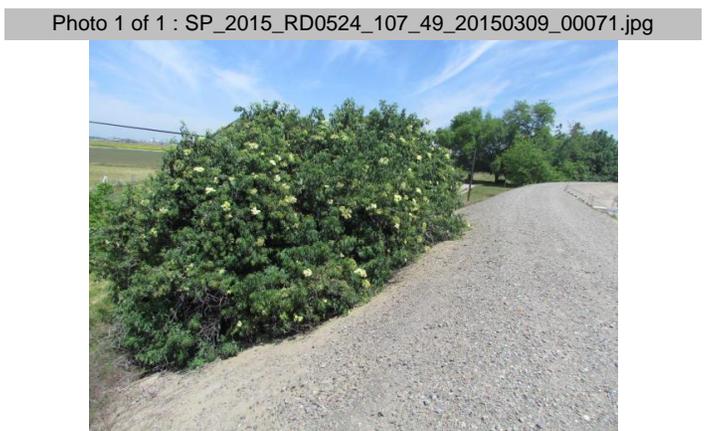
Looking south at elderberry on landside slope.(Spring 2011)

LM Start	<b>2.80</b>	Rating **	U	Issue No.	<b>91</b>
LM End	<b>2.80</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.915063 °	37.915063 °
				-121.323585 °	-121.323585 °
DWR ID	DWR_RD0524_01_s_2012_91				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					



Looking southwest at dense vegetation on landside slope.

LM Start	<b>2.86</b>	Rating **	U	Issue No.	<b>49</b>
LM End	<b>2.86</b>	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				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					



Looking northwest at elderberry on landside slope.

<b>* Location</b> LS : Land Side 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>2.90</b>	Rating **	U	Issue No.	<b>50</b>
LM End	<b>2.92</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.913767 °	37.913503 °
				-121.324427 °	-121.324488 °
DWR ID	DWR_RD0524_01_s_2012_50				
Action/Comments					
Prunings					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_50\_20150309\_00072.jpg



Looking southwest at prunings on landside slope.

LM Start	<b>2.93</b>	Rating **	M	Issue No.	<b>51</b>
LM End	<b>2.93</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.913415 °	37.913415 °
				-121.324503 °	-121.324503 °
DWR ID	DWR_RD0524_01_s_2012_51				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_51\_20150424\_00220.jpg



Looking south at dense trees on landward slope.

LM Start	<b>2.96</b>	Rating **	U	Issue No.	<b>193</b>
LM End	<b>2.96</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.913010 °	37.913010 °
				-121.324490 °	-121.324490 °
DWR ID	DWR_RD0524_01_s_2015_193				
Action/Comments					
Inspector Comments: 6/19/2014: 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. [2014 Site ID:RD0524U01RM43.52]					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_193\_20150309\_00154.jpg



Front view of the erosion.

<b>* Location</b> LS : Land Side 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>3.02</b>	Rating **	M	Issue No.	<b>924</b>
LM End	<b>3.02</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.912163 °	37.912163 °	
			-121.324702 °	-121.324702 °	
DWR ID	DWR_RD0524_01_s_2012_924				
Action/Comments					
Repair the levee slope damaged by livestock and prevent large animal access.					

No Photos

LM Start	<b>3.07</b>	Rating **	M	Issue No.	<b>925</b>
LM End	<b>3.14</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.911382 °	37.910558 °	
			-121.324928 °	-121.325432 °	
DWR ID	DWR_RD0524_01_s_2012_925				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Several rodent holes on levee slopes.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_925\_20150424\_00221.jpg



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

LM Start	<b>3.27</b>	Rating **	A/W	Issue No.	<b>186</b>
LM End	<b>3.27</b>	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				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>3.30</b>	Rating **	A/W	Issue No.	<b>926</b>
LM End	<b>3.32</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.908158 °	37.907872 °
				-121.325418 °	-121.325443 °
DWR ID	DWR_RD0524_01_s_2012_926				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	<b>3.31</b>	Rating **	U	Issue No.	<b>5</b>
LM End	<b>3.31</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.908090 °	37.908090 °
				-121.325090 °	-121.325090 °
DWR ID	DWR_RD0524_01_s_2015_5				
Action/Comments					
Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: The levee toe seems to have been protected by river rocks and vegetation on site. [2014 Site ID:RD0524U01RM43.86]					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_5\_20150309\_00010.jpg



View from upstream of the erosion.

LM Start	<b>3.34</b>	Rating **	A/W	Issue No.	<b>52</b>
LM End	<b>3.37</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.907645 °	37.907157 °
				-121.325442 °	-121.325408 °
DWR ID	DWR_RD0524_01_s_2012_52				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>3.36</b>	Rating **	M	Issue No.	<b>53</b>
LM End	<b>3.42</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.907283 °	37.906503 °	
			-121.325432 °	-121.325002 °	
DWR ID	DWR_RD0524_01_s_2012_53				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	<b>3.40</b>	Rating **	U	Issue No.	<b>54</b>
LM End	<b>3.45</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.906747 °	37.906192 °	
			-121.325248 °	-121.324543 °	
DWR ID	DWR_RD0524_01_s_2012_54				
Action/Comments					
Trim and thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_54\_20150309\_00073.jpg



Looking northwest at dense vegetation on landside slope.

LM Start	<b>3.42</b>	Rating **	M	Issue No.	<b>56</b>
LM End	<b>3.42</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.906540 °	37.906540 °	
			-121.325015 °	-121.325015 °	
DWR ID	DWR_RD0524_01_s_2012_56				
Action/Comments					
Material Inspector Comments: Broken concrete pipes					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_56\_20150309\_00075.jpg



Looking southwest at concrete pipes on landside 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>3.45</b>	Rating **	U	Issue No.	<b>93</b>
LM End	<b>3.45</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.906265 °	37.906265 °
				-121.324643 °	-121.324643 °
DWR ID	DWR_RD0524_01_s_2012_93				
Action/Comments					
Trim and thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_93\_20150309\_00098.jpg



Looking northwest at low hanging tree branches on landside slope and toe.

LM Start	<b>3.48</b>	Rating **	M	Issue No.	<b>177</b>
LM End	<b>3.48</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.905994 °	37.905994 °
				-121.324194 °	-121.324194 °
DWR ID	DWR_RD0524_01_f_2014_177				
Action/Comments					
Tree or limb Inspector Comments: Dead tree on landward toe.					

No Photos

LM Start	<b>3.51</b>	Rating **	U	Issue No.	<b>57</b>
LM End	<b>3.61</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.905638 °	37.904430 °
				-121.323892 °	-121.324570 °
DWR ID	DWR_RD0524_01_s_2012_57				
Action/Comments					
Trim and thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_57\_20150309\_00076.jpg



Looking south at dense trees 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>3.57</b>	Rating **	M	Issue No.	<b>55</b>
LM End	<b>3.57</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.904630 °	37.904630 °
				-121.323610 °	-121.323610 °
DWR ID	DWR_RD0524_01_s_2015_55				
Action/Comments					
Inspector Comments: 6/19/2014: The previous erosion was repaired. New erosion was found below the repaired levee slope. 08/13/2013: No significant change observed. 08/07/2012: The levee toe has been cut off along a 150 ft. long river stretch. The erosion is located just upstream of a river bend. [2014 Site ID:RD0524U01RM44.13]					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_55\_20150309\_00074.jpg



View of the repaired site.

LM Start	<b>3.64</b>	Rating **	M	Issue No.	<b>58</b>
LM End	<b>3.64</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.904113 °	37.904113 °
				-121.325080 °	-121.325080 °
DWR ID	DWR_RD0524_01_s_2012_58				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Landowner cut steps into waterside slope.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_58\_20150309\_00077.jpg



Looking southeast steps cut into waterside slope.

LM Start	<b>3.67</b>	Rating **	U	Issue No.	<b>192</b>
LM End	<b>3.67</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.903782 °	37.903782 °
				-121.325363 °	-121.325363 °
DWR ID	DWR_RD0524_01_s_2015_192				
Action/Comments					
Prunings Inspector Comments: Large pruning piles at landward toe.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_192\_20150424\_00222.jpg



Looking east at pruning pile at landward toe.

<b>* Location</b> LS : Land Side 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>3.77</b>	Rating **	M	Issue No.	<b>927</b>
LM End	<b>3.77</b>	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				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_927\_20150424\_00225.jpg



Looking east at untrimmed tree on landward slope.

LM Start	<b>3.78</b>	Rating **	M	Issue No.	<b>59</b>
LM End	<b>3.78</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.902417 °	37.902417 °
				-121.326482 °	-121.326482 °
DWR ID	DWR_RD0524_01_s_2012_59				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_59\_20150424\_00226.jpg



Looking south at untrimmed trees on landward slope.

LM Start	<b>3.80</b>	Rating **	M	Issue No.	<b>928</b>
LM End	<b>3.81</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.902155 °	37.902002 °
				-121.326523 °	-121.326550 °
DWR ID	DWR_RD0524_01_s_2012_928				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>3.85</b>	Rating **	M	Issue No.	<b>187</b>
LM End	<b>3.85</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.901447 °	37.901447 °	
			-121.326500 °	-121.326500 °	
DWR ID	DWR_RD0524_01_s_2014_187				
Action/Comments					
Tree or limb Inspector Comments: Tree limb on waterward shoulder.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_187\_20150309\_00152.jpg



Looking northeast at tree limb on waterward slope.

LM Start	<b>3.88</b>	Rating **	M	Issue No.	<b>94</b>
LM End	<b>3.88</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.900952 °	37.900952 °	
			-121.326443 °	-121.326443 °	
DWR ID	DWR_RD0524_01_s_2012_94				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove cactus					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_94\_20150309\_00099.jpg



Looking southeast at cactus on waterside slope.

LM Start	<b>3.89</b>	Rating **	M	Issue No.	<b>83</b>
LM End	<b>3.89</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.900854 °	37.900854 °	
			-121.326438 °	-121.326438 °	
DWR ID	DWR_RD0524_01_s_2012_83				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>4.02</b>	Rating **	U	Issue No.	<b>195</b>
LM End	<b>4.02</b>	Issue Type +	Ma	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				
Action/Comments					
Prunings Inspector Comments: Pruning pile blocking view of landward slope.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_195\_20150424\_00227.jpg



Looking east at pruning pile at landward toe.

LM Start	<b>4.03</b>	Rating **	M	Issue No.	<b>61</b>
LM End	<b>4.03</b>	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				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_61\_20150424\_00228.jpg



Looking east at untrimmed tree at landward toe.

LM Start	<b>4.04</b>	Rating **	A/W	Issue No.	<b>64</b>
LM End	<b>4.09</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.898832 °	37.898090 °	
			-121.327092 °	-121.327457 °	
DWR ID	DWR_RD0524_01_s_2012_64				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_64\_20150424\_00229.jpg



Looking at typical view of grouted rodent holes 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>4.10</b>	Rating **	M	Issue No.	<b>108</b>
LM End	<b>4.10</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.898035 °	37.898035 °
				-121.327447 °	-121.327447 °
DWR ID	DWR_RD0524_01_s_2012_108				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_108\_20150309\_00109.jpg



Looking southwest at caving slope on landside of levee.

LM Start	<b>4.16</b>	Rating **	C	Issue No.	<b>109</b>
LM End	<b>4.16</b>	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Metal Pipes			37.897113 °	37.897113 °
				-121.327895 °	-121.327895 °
DWR ID	DWR_RD0524_01_s_2012_109				
Action/Comments					
Inspector Comments: Landowner has temporarily repaired pipe with tape. Pipe should be repaired to stop further damage to the levee. Landowner repaired steel pipe, but pvc piping is still causing damage to waterward slope.					

No Photos

LM Start	<b>4.36</b>	Rating **	A/W	Issue No.	<b>65</b>
LM End	<b>4.51</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.894587 °	37.892493 °
				-121.329253 °	-121.328267 °
DWR ID	DWR_RD0524_01_s_2012_65				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>4.40</b>	Rating **	M	Issue No.	<b>112</b>
LM End	<b>4.53</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.893928 °	37.892230 °
				-121.329203 °	-121.328187 °
DWR ID	DWR_RD0524_01_s_2012_112				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_112\_20150424\_00230.jpg



Looking southeast at untrimmed tree at landward toe.

LM Start	<b>4.53</b>	Rating **	U	Issue No.	<b>79</b>
LM End	<b>4.53</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.892230 °	37.892230 °
				-121.327930 °	-121.327930 °
DWR ID	DWR_RD0524_01_s_2015_79				
Action/Comments					
Inspector Comments: 6/19/2014: 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. [2014 Site ID:RD0524U01RM45.07]					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_79\_20150309\_00091.jpg



Downstream view of the erosion site.

LM Start	<b>4.60</b>	Rating **	M	Issue No.	<b>66</b>
LM End	<b>4.60</b>	Issue Type +	Ma	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				
Action/Comments					
Garbage					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_66\_20150309\_00081.jpg



Garbage at landward toe next to ramp at LM 4.64

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

**Flood Control Project Maintenance  
Levee Inspections**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>4.61</b>	Rating **	M	Issue No.	<b>63</b>
LM End	<b>4.61</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.891285 °	37.891285 °	
			-121.328728 °	-121.328728 °	
DWR ID	DWR_RD0524_01_s_2012_63				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_63\_20150309\_00080.jpg



Looking south at dense trees on landside slope.

LM Start	<b>4.63</b>	Rating **	A/W	Issue No.	<b>113</b>
LM End	<b>4.63</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.890973 °	37.890973 °	
			-121.328970 °	-121.328970 °	
DWR ID	DWR_RD0524_01_s_2012_113				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_113\_20150309\_00117.jpg



Looking north at dense trees on landside slope.

LM Start	<b>4.70</b>	Rating **	A/W	Issue No.	<b>67</b>
LM End	<b>4.70</b>	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				
Action/Comments					
Trim trees to at least five feet above ground level. Inspector Comments: Fig tree at landside toe.					

No Photos

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

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>4.90</b>	Rating **	U	Issue No.	<b>84</b>
LM End	<b>4.93</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.887655 °	37.887277 °	
			-121.331202 °	-121.331609 °	
DWR ID	DWR_RD0524_01_s_2012_84				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_84\_20150424\_00231.jpg



Looking northeast at untrimmed trees on landward slope.

LM Start	<b>4.96</b>	Rating **	M	Issue No.	<b>114</b>
LM End	<b>4.98</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.886907 °	37.886673 °	
			-121.331862 °	-121.331965 °	
DWR ID	DWR_RD0524_01_s_2012_114				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	<b>5.05</b>	Rating **	M	Issue No.	<b>71</b>
LM End	<b>5.07</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.885613 °	37.885286 °	
			-121.332139 °	-121.332167 °	
DWR ID	DWR_RD0524_01_s_2012_71				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_71\_20150424\_00232.jpg



Looking south at untrimmed trees 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	<b>+</b> Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>5.07</b>	Rating **	U	Issue No.	<b>68</b>
LM End	<b>5.07</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.885400 °	37.885400 °
				-121.332153 °	-121.332153 °
DWR ID	DWR_RD0524_01_s_2012_68				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_68\_20150309\_00082.jpg



Looking south at overhanging trees.

LM Start	<b>5.12</b>	Rating **	M	Issue No.	<b>188</b>
LM End	<b>5.12</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.884627 °	37.884627 °
				-121.332172 °	-121.332172 °
DWR ID	DWR_RD0524_01_s_2014_188				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	<b>5.16</b>	Rating **	A/W	Issue No.	<b>72</b>
LM End	<b>5.16</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.884075 °	37.884075 °
				-121.332118 °	-121.332118 °
DWR ID	DWR_RD0524_01_s_2012_72				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>5.19</b>	Rating **	M	Issue No.	<b>115</b>
LM End	<b>5.19</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.883587 °	37.883587 °	
			-121.332100 °	-121.332100 °	
DWR ID	DWR_RD0524_01_s_2012_115				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Vehicle traffic created a ramp on landward slope.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_115\_20150309\_00118.jpg



Looking northwest at slope damage on landward slope.

LM Start	<b>5.22</b>	Rating **	M	Issue No.	<b>116</b>
LM End	<b>5.22</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.883170 °	37.883170 °	
			-121.332227 °	-121.332227 °	
DWR ID	DWR_RD0524_01_s_2012_116				
Action/Comments					
Tree or limb Inspector Comments: Dead tree limbs on waterside slope.					

No Photos

LM Start	<b>5.28</b>	Rating **	M	Issue No.	<b>85</b>
LM End	<b>5.34</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.882377 °	37.881498 °	
			-121.332598 °	-121.332800 °	
DWR ID	DWR_RD0524_01_s_2012_85				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_85\_20150424\_00233.jpg



Looking south at untrimmed trees 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>5.38</b>	Rating **	M	Issue No.	<b>932</b>
LM End	<b>5.41</b>	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				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_932\_20150424\_00234.jpg



Looking south at untrimmed trees on landward slope and toe.

LM Start	<b>5.39</b>	Rating **	M	Issue No.	<b>178</b>
LM End	<b>5.39</b>	Issue Type +	Ma	Location *	N/A
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				
Action/Comments					
Tree or limb Inspector Comments: Downed tree on landward toe.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_178\_20150309\_00145.jpg



Looking south at downed tree on landward slope.

LM Start	<b>5.41</b>	Rating **	A/W	Issue No.	<b>931</b>
LM End	<b>5.41</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.880575 °	37.880575 °
				-121.332890 °	-121.332890 °
DWR ID	DWR_RD0524_01_s_2012_931				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: LMA grouted rodent holes.					

Photo 1 of 2 : SP\_2015\_RD0524\_107\_931\_20150309\_00169.jpg



Looking north at typical view of grouted rodent holes on landward shoulder and 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>5.42</b>	Rating **	M	Issue No.	<b>118 (cont)</b>
LM End	<b>5.42</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.880323 °	37.880323 °
				-121.332968 °	-121.332968 °
DWR ID	DWR_RD0524_01_s_2012_118				
Action/Comments					
Repair slope instability. Inspector Comments: Slope damage caused by human activity.					

Photo 3 of 3 : SP\_2015\_RD0524\_107\_118\_20150309\_00121.jpg



Looking east at slope caving on landside slope.

LM Start	<b>5.43</b>	Rating **	U	Issue No.	<b>125</b>
LM End	<b>5.43</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.880320 °	37.880320 °
				-121.333266 °	-121.333266 °
DWR ID	DWR_RD0524_01_s_2015_125				
Action/Comments					
Inspector Comments: 6/19/2014: 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. [2014 Site ID:RD0524U01RM45.97]					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_125\_20150309\_00126.jpg



Close view of the erosion and the pipe.

LM Start	<b>5.44</b>	Rating **	M	Issue No.	<b>73</b>
LM End	<b>5.44</b>	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				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_73\_20150424\_00235.jpg



Looking east at untrimmed trees on landward slope.

<b>* Location</b> LS : Land Side 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>5.45</b>	Rating **	M	Issue No.	<b>189</b>
LM End	<b>5.45</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.879998 °	37.879998 °	
			-121.333079 °	-121.333079 °	
DWR ID	DWR_RD0524_01_s_2014_189				
Action/Comments					
Prunings Inspector Comments: Prunings on landward shoulder should be removed.					

No Photos

LM Start	<b>5.52</b>	Rating **	A/W	Issue No.	<b>96</b>
LM End	<b>5.52</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.878918 °	37.878918 °	
			-121.333148 °	-121.333148 °	
DWR ID	DWR_RD0524_01_s_2012_96				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	<b>5.53</b>	Rating **	M	Issue No.	<b>126</b>
LM End	<b>5.53</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.878920 °	37.878920 °	
			-121.332670 °	-121.332670 °	
DWR ID	DWR_RD0524_01_s_2015_126				
Action/Comments					
Inspector Comments: 6/19/2014: 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. [2014 Site ID:RD0524U01RM46.06]					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_126\_20150309\_00127.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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>5.64</b>	Rating **	A/W	Issue No.	<b>69</b>
LM End	<b>5.80</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.877298 °	37.875073 °	
			-121.332343 °	-121.333168 °	
DWR ID	DWR_RD0524_01_s_2012_69				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: District has grouted rodent holes.					

No Photos

LM Start	<b>5.64</b>	Rating **	M	Issue No.	<b>117</b>
LM End	<b>5.64</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.877272 °	37.877272 °	
			-121.332400 °	-121.332400 °	
DWR ID	DWR_RD0524_01_f_2013_117				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	<b>5.77</b>	Rating **	M	Issue No.	<b>196</b>
LM End	<b>5.77</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.875510 °	37.875510 °	
			-121.332953 °	-121.332953 °	
DWR ID	DWR_RD0524_01_s_2015_196				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>5.79</b>	Rating **	M	Issue No.	<b>267</b>
LM End	<b>5.79</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.875328 °	37.875328 °
				-121.333050 °	-121.333050 °
DWR ID	DWR_RD0524_01_s_2012_267				
Action/Comments					
Prunings Inspector Comments: Prunings at landside toe should be burned or removed.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_267\_20150424\_00236.jpg



Looking east at pruning piles at landward toe and berm.

LM Start	<b>5.79</b>	Rating **	M	Issue No.	<b>197</b>
LM End	<b>5.79</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.875310 °	37.875310 °
				-121.333065 °	-121.333065 °
DWR ID	DWR_RD0524_01_s_2015_197				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Several rodent holes on landward slope and levee crown.					

Photo 1 of 2 : SP\_2015\_RD0524\_107\_197\_20150424\_00237.jpg



Looking north at typical view of rodent holes on landward slope.

LM Start	<b>5.79</b>	Rating **	M	Issue No.	<b>197 (cont)</b>
LM End	<b>5.79</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2015\_RD0524\_107\_197\_20150424\_00238.jpg



Looking southwest at typical view of rodent hole at landward 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>5.81</b>	Rating **	U	Issue No.	<b>198</b>
LM End	<b>5.81</b>	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems		GPS Latitude/Longitude		
			Start	End	
Item	Erosion Areas		37.874950 °	37.874950 °	
			-121.333273 °	-121.333273 °	
DWR ID	DWR_RD0524_01_s_2015_198				
Action/Comments					
Inspector Comments: Large erosion around irrigation pipe on waterward slope.					

Photo 1 of 3 : SP\_2015\_RD0524\_107\_198\_20150424\_00239.jpg



Looking south at erosion around irrigation pipe on waterward slope.

LM Start	<b>5.81</b>	Rating **	U	Issue No.	<b>198 (cont)</b>
LM End	<b>5.81</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP\_2015\_RD0524\_107\_198\_20150424\_00240.jpg



Looking east at erosion around irrigation pipe.

LM Start	<b>5.81</b>	Rating **	U	Issue No.	<b>198 (cont)</b>
LM End	<b>5.81</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2015\_RD0524\_107\_198\_20150424\_00241.jpg



Looking at erosion around pipe inside concrete collar.

<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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>5.86</b>	Rating **	M	Issue No.	<b>74</b>
LM End	<b>5.87</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.874240 °	37.874165 °	
			-121.333185 °	-121.333155 °	
DWR ID	DWR_RD0524_01_s_2012_74				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Erosion on landward slope around intake pipe.					

Photo 1 of 3 : SP\_2015\_RD0524\_107\_74\_20150309\_00083.jpg



Looking southeast at erosion around pipe.

LM Start	<b>5.86</b>	Rating **	M	Issue No.	<b>74 (cont)</b>
LM End	<b>5.87</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP\_2015\_RD0524\_107\_74\_20150309\_00084.jpg



Looking west at erosion around intake pipe on landward slope.

LM Start	<b>5.86</b>	Rating **	M	Issue No.	<b>74 (cont)</b>
LM End	<b>5.87</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2015\_RD0524\_107\_74\_20150309\_00085.jpg



Erosion at waterward toe and around irrigation pipe at LM 5.92

<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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>5.87</b>	Rating **	C	Issue No.	<b>190</b>
LM End	<b>5.87</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.874197 °	37.874197 °	
			-121.333208 °	-121.333208 °	
DWR ID	DWR_RD0524_01_s_2014_190				
Action/Comments					
Pipe Inspector Comments: Landowner is replacing pump and left old pipe on waterward shoulder.					

No Photos

LM Start	<b>5.89</b>	Rating **	U	Issue No.	<b>119</b>
LM End	<b>5.89</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.873893 °	37.873893 °	
			-121.332978 °	-121.332978 °	
DWR ID	DWR_RD0524_01_s_2012_119				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Landowner is using damaged area as a ramp.					

Photo 1 of 2 : SP\_2015\_RD0524\_107\_119\_20150309\_00122.jpg



Looking west at unauthorized ramp and landside slope damage.

LM Start	<b>5.89</b>	Rating **	U	Issue No.	<b>119 (cont)</b>
LM End	<b>5.89</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2015\_RD0524\_107\_119\_20150309\_00123.jpg



Looking southwest at damaged slope and ramp on landside slope.

<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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>5.92</b>	Rating **	M	Issue No.	<b>86</b>
LM End	<b>5.92</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.873678 °	37.873678 °	
			-121.332550 °	-121.332550 °	
DWR ID	DWR_RD0524_01_s_2012_86				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	<b>5.96</b>	Rating **	M	Issue No.	<b>120</b>
LM End	<b>5.96</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.873347 °	37.873347 °	
			-121.332028 °	-121.332028 °	
DWR ID	DWR_RD0524_01_s_2012_120				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_120\_20150424\_00242.jpg



Looking south at untrimmed trees on landward slope and toe.

LM Start	<b>6.00</b>	Rating **	M	Issue No.	<b>933</b>
LM End	<b>6.00</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.873047 °	37.873047 °	
			-121.331408 °	-121.331408 °	
DWR ID	DWR_RD0524_01_s_2012_933				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Landowner cut steps into landside slope.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_933\_20150309\_00171.jpg



Looking north at steps cut into landward slope.

<b>* Location</b> LS : Land Side 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>6.02</b>	Rating **	M	Issue No.	<b>191</b>
LM End	<b>6.02</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.872844 °	37.872844 °	
			-121.331070 °	-121.331070 °	
DWR ID	DWR_RD0524_01_s_2014_191				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Cactus at landward toe.					

No Photos

LM Start	<b>6.15</b>	Rating **	M	Issue No.	<b>268</b>
LM End	<b>6.15</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.871137 °	37.871137 °	
			-121.330138 °	-121.330138 °	
DWR ID	DWR_RD0524_01_s_2012_268				
Action/Comments					
Pipe Inspector Comments: Open abandoned 10" pipe on waterside slope below flood elevation. Pipe should be removed or properly abandoned.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_268\_20150309\_00163.jpg



Looking southeast at abandoned pipe on waterside slope.

LM Start	<b>6.15</b>	Rating **	U	Issue No.	<b>81</b>
LM End	<b>6.15</b>	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				
Action/Comments					
Tree or limb Inspector Comments: Large tree fallen across levee crown blocking access.					

Photo 1 of 2 : SP\_2015\_RD0524\_107\_81\_20150424\_00243.jpg



Looking southwest at large tree across levee crown.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N</b> : Not Inspected/Rated <b>C</b> : Corrected <b>A/W</b> : 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**

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

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/21/2015 04/21/2015	Richard Willoughby

LM Start	<b>6.15</b>	Rating **	U	Issue No.	<b>81 (cont)</b>
LM End	<b>6.15</b>	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				
Action/Comments					
Tree or limb Inspector Comments: Large tree fallen across levee crown blocking access.					

Photo 2 of 2 : SP\_2015\_RD0524\_107\_81\_20150424\_00244.jpg



Looking south at large tree across levee crown.

LM Start	<b>6.17</b>	Rating **	M	Issue No.	<b>98</b>
LM End	<b>6.17</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.870842 °	37.870842 °
				-121.330000 °	-121.330000 °
DWR ID	DWR_RD0524_01_s_2012_98				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP\_2015\_RD0524\_107\_98\_20150424\_00245.jpg



Looking southeast at untrimmed trees at landward toe.

LM Start	<b>6.17</b>	Rating **	A/W	Issue No.	<b>97</b>
LM End	<b>6.17</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.870840 °	37.870840 °
				-121.329993 °	-121.329993 °
DWR ID	DWR_RD0524_01_s_2012_97				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

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