

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 2101 Blewett**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	09/27/2019 09/27/2019	Alberto De Leon

LM Start		Rating **	A	Issue No.	<b>2</b>
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_RD2101_01_s_2013_2				
Comment Code					
Inspector Comment					
The LMA has the O&M Manual available electronically.					

Photo 1 of 1 : FA\_2019\_RD2101\_326\_2\_20190830\_00001.jpg



View of the O&M manual and other documentation.

LM Start		Rating **	A	Issue No.	<b>4</b>
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_RD2101_01_s_2013_4				
Comment Code					
Inspector Comment					
LMA has emergency supplies on site at the warehouse.					

Photo 1 of 2 : FA\_2019\_RD2101\_326\_4\_20190830\_00002.jpg



View of the emergency flood fight supplies in the shop.

LM Start		Rating **	A	Issue No.	<b>4 (cont)</b>
LM End		Issue Type +	Ma	Location *	N/A

Photo 2 of 2 : FA\_2019\_RD2101\_326\_4\_20190830\_00003.jpg



Another view of the emergency flood fight supplies in the shop.

<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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Unit No. 01 San Joaquin River	Left	3.16	09/27/2019 09/27/2019	Alberto De Leon

LM Start		Rating **	M	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_RD2101_01_s_2013_5				
Comment Code					
Inspector Comment					
LMA needs to take a flood fight class.					

No Photos

LM Start	0.04	Rating **	C	Issue No.	12
LM End	0.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.657648 °	37.657648 °
				-121.253812 °	-121.253812 °
DWR ID	DWR_RD2101_01_s_2012_12				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Grout program has successfully backfilled rodent holes. No rodent activity observed.					

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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Unit No. 01 San Joaquin River	Left	3.16	09/27/2019 09/27/2019	Alberto De Leon

LM Start	<b>0.05</b>	Rating **	M	Issue No.	<b>945</b>
LM End	<b>0.05</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP LMA Responsibility		37.657801 °	37.657801 °	
			-121.253745 °	-121.253745 °	
DWR ID	20699				
Comment Code					
Inspector Comment					
DS_ID:20699 FS_ID:53384 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/10/2018 The levee does not show any signs of integrity issues and the headwalls are in tact, even though the pipe has heavy sediment buildup. Downgrading to Non-Urgent and recommend cleaning out the pipe to allow drainage to pass through unobstructed (D. Sanoski - DWR UCIP). 11/16/2016 Same as previous inspection slide gate still missing. Also dense vegetation prevents access to crossing. Recommend removing vegetation along pipe alignment and both concrete headwalls to conduct proper inspection of structure. (O. Magana - DWR UCIP)09/17/2013 Slide gate missing from WS toe. Pipe has heavy sediment buildup. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 18-inch corrugated metal drainage pipe through the levee, 3 feet below the crown. Concrete headwalls on both ends. Slide gate at the headwall on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 12, December 1968, (HLM 0.05), Drawing No. 07-04-1666, Sheets 1666/18 and 1666/52, (Station 00+70)]. FS Date: 10/10/2018 1:39:00 PM					

Photo 1 of 3 : UCIP\_FA\_2019\_53384\_47962.jpg



Headwall on WS toe.

LM Start	<b>0.05</b>	Rating **	M	Issue No.	<b>945 (cont)</b>
LM End	<b>0.05</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2019\_53384\_47961.jpg



Pipe and headwall visible on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Reclamation District No. 2101 Blewett**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	09/27/2019 09/27/2019	Alberto De Leon

LM Start	<b>0.05</b>	Rating **	M	Issue No.	<b>945 (cont)</b>
LM End	<b>0.05</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			37.657801 °	37.657801 °
				-121.253745 °	-121.253745 °
DWR ID	20699				
Comment Code					
Inspector Comment					
DS_ID:20699 FS_ID:53384 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/10/2018 The levee does not show any signs of integrity issues and the headwalls are in tact, even though the pipe has heavy sediment buildup. Downgrading to Non-Urgent and recommend cleaning out the pipe to allow drainage to pass through unobstructed (D. Sanoski - DWR UCIP). 11/16/2016 Same as previous inspection slide gate still missing. Also dense vegetation prevents access to crossing. Recommend removing vegetation along pipe alignment and both concrete headwalls to conduct proper inspection of structure. (O. Magana - DWR UCIP)09/17/2013 Slide gate missing from WS toe. Pipe has heavy sediment buildup. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 18-inch corrugated metal drainage pipe through the levee, 3 feet below the crown. Concrete headwalls on both ends. Slide gate at the headwall on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 12, December 1968, (HLM 0.05), Drawing No. 07-04-1666, Sheets 1666/18 and 1666/52, (Station 00+70)]. FS Date: 10/10/2018 1:39:00 PM					

Photo 3 of 3 : UCIP\_FA\_2019\_53384\_47960.jpg



Pipe and headwall visible on LS toe.

LM Start	<b>0.14</b>	Rating **	M	Issue No.	<b>17</b>
LM End	<b>0.14</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.657152 °	37.657152 °
				-121.252447 °	-121.252447 °
DWR ID	DWR_RD2101_01_f_2019_17				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD2101\_326\_17\_20191001\_00048.jpg



View of more than 5 rodent holes on waterside slope. Fall 2019

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	09/27/2019 09/27/2019	Alberto De Leon

LM Start	<b>0.20</b>	Rating **	A/W	Issue No.	<b>946 (cont)</b>
LM End	<b>0.20</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			37.657130°	37.657130°
				-121.251695°	-121.251695°
DWR ID	20700				
Comment Code					
Inspector Comment					
DS_ID:20700 FS_ID:20752 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 20-inch steel drainage pipe through the levee, 2 feet below the crown. Concrete U-shaped headwall and flap gate on the waterside (WS) end. Pump on pile structure on the landside (LS). [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 12, December 1968, (HLM 0.20), 18-inch pipe listed]. FS Date: 9/19/2013					

Photo 3 of 3 : UCIP\_FA\_2019\_20752\_34978.jpg



Concrete U-shaped headwall on LS toe at willow tree on WS toe.

LM Start	<b>0.31</b>	Rating **	M	Issue No.	<b>947</b>
LM End	<b>0.31</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			37.658142°	37.658142°
				-121.250047°	-121.250047°
DWR ID	20701				
Comment Code					
Inspector Comment					
DS_ID:20701 FS_ID:20785 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Inlet blocked by soil from beaver activity. Outlet covered in soil. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 21 feet below the crown. Headwall and slide gate on the landside (LS) end. Concrete U-shaped headwall and flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 12, December 1968, (HLM 0.31)]. FS Date: 9/19/2013					

Photo 1 of 3 : UCIP\_FA\_2019\_20785\_35046.jpg



Slide gate at concrete headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Reclamation District No. 2101 Blewett**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	09/27/2019 09/27/2019	Alberto De Leon

LM Start	<b>0.31</b>	Rating **	M	Issue No.	<b>947 (cont)</b>
LM End	<b>0.31</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			37.658142°	37.658142°
				-121.250047°	-121.250047°
DWR ID	20701				
Comment Code					
Inspector Comment					
DS_ID:20701 FS_ID:20785 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Inlet blocked by soil from beaver activity. Outlet covered in soil. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 21 feet below the crown. Headwall and slide gate on the landside (LS) end. Concrete U-shaped headwall and flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 12, December 1968, (HLM 0.31)]. FS Date: 9/19/2013					

Photo 2 of 3 : UCIP\_FA\_2019\_20785\_35045.jpg



Slide gate at concrete headwall on LS toe.

LM Start	<b>0.31</b>	Rating **	M	Issue No.	<b>947 (cont)</b>
LM End	<b>0.31</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_FA\_2019\_20785\_35044.jpg



Outlet covered in soil but likely at willow tree on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	3.16	09/27/2019 09/27/2019	Alberto De Leon

LM Start	<b>0.51</b>	Rating **	M	Issue No.	<b>46</b>
LM End	<b>0.51</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.660072°	37.660072°	
			-121.247746°	-121.247746°	
DWR ID	DWR_RD2101_01_s_2019_46				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	<b>0.73</b>	Rating **	M	Issue No.	<b>18</b>
LM End	<b>0.73</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.659815°	37.659815°	
			-121.243640°	-121.243640°	
DWR ID	DWR_RD2101_01_f_2019_18				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Rills on waterside slope due to surface run off.					

Photo 1 of 1 : FA\_2019\_RD2101\_326\_18\_20191001\_00053.jpg



View of rills on waterside slope due to surface run off. Fall 2019

LM Start	<b>0.75</b>	Rating **	M	Issue No.	<b>34</b>
LM End	<b>0.75</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.659733°	37.659733°	
			-121.243363°	-121.243363°	
DWR ID	DWR_RD2101_01_f_2018_34				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	09/27/2019 09/27/2019	Alberto De Leon

LM Start	<b>0.78</b>	Rating **	C	Issue No.	<b>20</b>
LM End	<b>0.78</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.659436°	37.659436°
				-121.242965°	-121.242965°
DWR ID	DWR_RD2101_01_f_2016_20				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Grout program has successfully backfilled rodent holes. No rodent activity observed.					

No Photos

LM Start	<b>0.82</b>	Rating **	C	Issue No.	<b>19</b>
LM End	<b>0.82</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.658918°	37.658918°
				-121.242544°	-121.242544°
DWR ID	DWR_RD2101_01_s_2017_19				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Grout program has successfully backfilled rodent holes. No rodent activity observed.					

No Photos

LM Start	<b>0.86</b>	Rating **	C	Issue No.	<b>21</b>
LM End	<b>0.86</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.658715°	37.658715°
				-121.241945°	-121.241945°
DWR ID	DWR_RD2101_01_f_2016_21				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Grout program has successfully backfilled rodent holes. No rodent activity observed.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	3.16	09/27/2019 09/27/2019	Alberto De Leon

LM Start	<b>0.86</b>	Rating **	M	Issue No.	<b>35</b>
LM End	<b>0.86</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.658706°	37.658706°	
			-121.241913°	-121.241913°	
DWR ID	DWR_RD2101_01_f_2018_35				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	<b>0.89</b>	Rating **	M	Issue No.	<b>22</b>
LM End	<b>0.95</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.658549°	37.657622°	
			-121.241467°	-121.241187°	
DWR ID	DWR_RD2101_01_f_2016_22				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	<b>0.97</b>	Rating **	M	Issue No.	<b>47</b>
LM End	<b>0.97</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.657464°	37.657464°	
			-121.241147°	-121.241147°	
DWR ID	DWR_RD2101_01_s_2019_47				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<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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Unit No. 01 San Joaquin River	Left	3.16	09/27/2019 09/27/2019	Alberto De Leon

LM Start	<b>1.02</b>	Rating **	N	Issue No.	<b>33</b>
LM End	<b>1.02</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.656745°	37.656745°
				-121.241104°	-121.241104°
DWR ID	DWR_RD2101_01_f_2014_33				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Tree has been removed leaving a stump.					

Photo 1 of 1 : FA\_2019\_RD2101\_326\_33\_20190830\_00011.jpg



View of the tree stump at the waterside levee toe.

LM Start	<b>1.10</b>	Rating **	M	Issue No.	<b>23</b>
LM End	<b>1.10</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.655521°	37.655521°
				-121.241191°	-121.241191°
DWR ID	DWR_RD2101_01_s_2017_23				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	<b>1.24</b>	Rating **	M	Issue No.	<b>48</b>
LM End	<b>1.24</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.653946°	37.653946°
				-121.239652°	-121.239652°
DWR ID	DWR_RD2101_01_s_2019_48				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<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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Unit No. 01 San Joaquin River	Left	3.16	09/27/2019 09/27/2019	Alberto De Leon

LM Start	<b>1.86</b>	Rating **	C	Issue No.	<b>30</b>
LM End	<b>1.95</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.650259 °	37.650259 °	
			-121.228961 °	-121.228961 °	
DWR ID	RD2101U01RM73.92				
Comment Code					
Inspector Comment					
<p>Site ID: RD2101U01RM73.92                      09/17/2019: This site has been repaired. No new erosion was observed at the repaired site.                      10/26/2017: The erosion is being repaired at the time of survey.                      07/12/2016: No significant change observed.                      08/19/2015: No significant change observed.                      07/17/2014: No significant change observed.                      09/20/2013: Site has been visited. There are signs of further erosion development along the levee slope and toe.                      07/18/2012: The erosion has further developed toward levee crown. Vegetation has been removed.                      08/18/2011: The erosion progressed significantly during the past flood season. The levee toe along the erosion site was washed away, and the erosion has cut the levee structure up to the point about 1/3 of the levee slope. The scarp height is approximately 17 feet. Very dense vegetation and trees are visible.                      10/19/2010: No significant change observed on site. Remaining levee berm topsoil is of silty sand mixture. The erosion is near the downstream transition. An eddy has formed, and has scoured away a 100-foot section of the bank, possibly encroaching into the levee prism. Vegetation on site includes willows, oak, and cotton wood located from the bench to the toe. On the landside are rows of corn crop.                      08/05/2010: Recommended for Repair, per CLRO.                      2009: Site recommended as annual assessment and monitoring if critical erosion site, per CLRO CES Evaluation 2008 Report; an eddy has formed, eroding bank and intruding into the levee prism; Site # is the same as RM76.3, LM1.89; previously rated "U".                      08/30/2007: Recommended for short list of immediate repair sites; silty sand levee material.</p>					

No Photos

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

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 2101 Blewett**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	09/27/2019 09/27/2019	Alberto De Leon

LM Start	<b>1.93</b>	Rating **	C	Issue No.	<b>41</b>
LM End	<b>1.93</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.650205 °	37.650205 °
				-121.228507 °	-121.228507 °
DWR ID	DWR_RD2101_01_f_2018_41				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Grout program has successfully backfilled rodent holes. No rodent activity observed.					

No Photos

LM Start	<b>2.46</b>	Rating **	C	Issue No.	<b>25</b>
LM End	<b>2.46</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.644691 °	37.644691 °
				-121.227681 °	-121.227681 °
DWR ID	DWR_RD2101_01_s_2017_25				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Grout program has successfully backfilled rodent holes. No rodent activity observed.					

No Photos

LM Start	<b>2.56</b>	Rating **	C	Issue No.	<b>36</b>
LM End	<b>2.56</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.643733 °	37.643733 °
				-121.229083 °	-121.229083 °
DWR ID	DWR_RD2101_01_s_2017_36				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Grout program has successfully backfilled rodent holes. No rodent activity observed.					

No Photos

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

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 2101 Blewett**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	09/27/2019 09/27/2019	Alberto De Leon

LM Start	<b>2.67</b>	Rating **	C	Issue No.	<b>37</b>
LM End	<b>2.67</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.642436°	37.642436°	
			-121.229854°	-121.229854°	
DWR ID	DWR_RD2101_01_s_2017_37				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Grout program has successfully backfilled rodent holes. No rodent activity observed.					

No Photos

LM Start	<b>2.74</b>	Rating **	U	Issue No.	<b>49</b>
LM End	<b>2.74</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.641545°	37.641545°	
			-121.229744°	-121.229744°	
DWR ID	DWR_RD2101_01_s_2019_49				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
There is erosion on the waterside shoulder extending down the slope. Most likely caused by surface runoff from adjacent highway.					

Photo 1 of 1 : FA\_2019\_RD2101\_326\_49\_20190830\_00016.jpg



Waterside shoulder erosion most likely caused by surface runoff from adjacent highway. (Spring 2019)

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

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 2101 Blewett**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	09/27/2019 09/27/2019	Alberto De Leon

LM Start	<b>2.82</b>	Rating **	M	Issue No.	<b>950</b>
LM End	<b>2.82</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP LMA Responsibility		37.640566°	37.640566°	
			-121.230216°	-121.230216°	
DWR ID	20705				
Comment Code					
Inspector Comment					
DS_ID:20705 FS_ID:53201 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/10/2018 Although there was heavy vegetation, there were no visible levee or pipe threats; downgrading to Non-Urgent (D. Sanoski - DWR UCIP).11/16/2016 No access available. Need to coordinate with LMA to obtain access for proper inspection at a later date. (O. Magana - DWR UCIP)09/19/2013 Flap gate missing from WS headwall. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Concrete U-shaped headwalls on both ends. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 12, December 1968, (HLM 2.85), Drawing No. 07-04-1666, Sheets 1666/13 and 1666/51, (Station 421+30)]. FS Date: 10/10/2018 2:24:25 PM					

Photo 1 of 3 : UCIP\_FA\_2019\_53201\_35142.jpg



Concrete headwall visible at LS toe in ditch.

LM Start	<b>2.82</b>	Rating **	M	Issue No.	<b>950 (cont)</b>
LM End	<b>2.82</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2019\_53201\_35141.jpg



Concrete headwall visible on WS toe at canal.

<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 - Fall 2019**

**Reclamation District No. 2101 Blewett**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	09/27/2019 09/27/2019	Alberto De Leon

LM Start	<b>2.82</b>	Rating **	M	Issue No.	<b>950 (cont)</b>
LM End	<b>2.82</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			37.640566 °	37.640566 °
				-121.230216 °	-121.230216 °
DWR ID	20705				
Comment Code					
Inspector Comment					
DS_ID:20705 FS_ID:53201 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/10/2018 Although there was heavy vegetation, there were no visible levee or pipe threats; downgrading to Non-Urgent (D. Sanoski - DWR UCIP).11/16/2016 No access available. Need to coordinate with LMA to obtain access for proper inspection at a later date. (O. Magana - DWR UCIP)09/19/2013 Flap gate missing from WS headwall. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Concrete U-shaped headwalls on both ends. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 12, December 1968, (HLM 2.85), Drawing No. 07-04-1666, Sheets 1666/13 and 1666/51, (Station 421+30)]. FS Date: 10/10/2018 2:24:25 PM					

Photo 3 of 3 : UCIP\_FA\_2019\_53201\_35140.jpg



Concrete headwall at LS toe.

LM Start	<b>2.83</b>	Rating **	M	Issue No.	<b>26</b>
LM End	<b>3.16</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.640425 °	37.637084 °
				-121.230140 °	-121.233782 °
DWR ID	DWR_RD2101_01_f_2019_26				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA\_2019\_RD2101\_326\_26\_20191007\_00054.jpg



Typical view of waterside vegetation. Fall 2019

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

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 2101 Blewett**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	09/27/2019 09/27/2019	Alberto De Leon

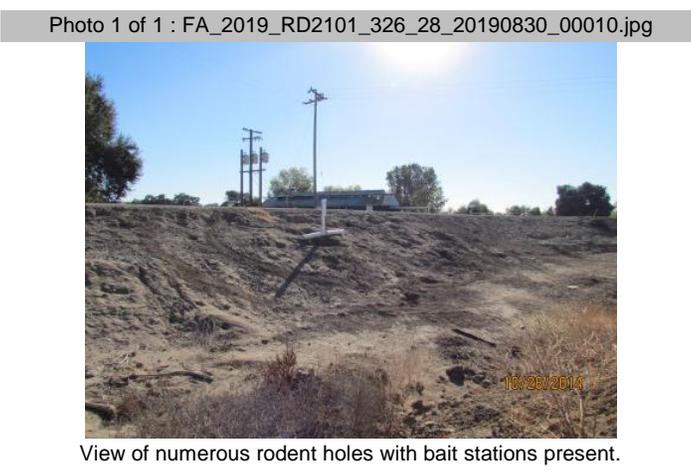
LM Start	<b>2.83</b>	Rating **	U	Issue No.	<b>27</b>
LM End	<b>2.83</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.640425°	37.640425°	
			-121.230139°	-121.230139°	
DWR ID	DWR_RD2101_01_s_2012_27				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes have not been backfilled. Fall 2019					



LM Start	<b>2.83</b>	Rating **	M	Issue No.	<b>24</b>
LM End	<b>3.16</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.640425°	37.637084°	
			-121.230139°	-121.233782°	
DWR ID	DWR_RD2101_01_f_2019_24				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
This portion of the District is on a different ranch and has not been maintained by the LMA. Vegetation blocks visibility on both sides of levee.					



LM Start	<b>2.85</b>	Rating **	M	Issue No.	<b>28</b>
LM End	<b>3.10</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.640134°	37.637667°	
			-121.230019°	-121.233062°	
DWR ID	DWR_RD2101_01_s_2012_28				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes have not been backfilled. Fall 2019					



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

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 2101 Blewett**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	09/27/2019 09/27/2019	Alberto De Leon

LM Start	<b>2.87</b>	Rating **	A/W	Issue No.	<b>953 (cont)</b>
LM End	<b>2.87</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			37.639924 °	37.639924 °
				-121.230005 °	-121.230005 °
DWR ID	20707				
Comment Code					
Inspector Comment					
DS_ID:20707 FS_ID:20875 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 1 of 2: 24-inch corrugated metal drainage pipe through the levee, 12.5 feet below the crown. Concrete U-shaped headwalls on each end. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 12, December 1968, (HLM 2.89)]. FS Date: 9/19/2013					

Photo 3 of 3 : UCIP\_FA\_2019\_20875\_35154.jpg



Inlet on LS toe with concrete headwall.

LM Start	<b>2.87</b>	Rating **	U	Issue No.	<b>29</b>
LM End	<b>2.87</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.639852 °	37.639852 °
				-121.229979 °	-121.229979 °
DWR ID	RD2101U01RM74.97				
Comment Code					
Inspector Comment					
Site ID: RD2101U01RM74.97 09/17/2019: The erosion has been caused by the irrigation pipe leakage.					

Photo 1 of 3 : SJR2019\_DWR\_RD2101\_01\_s\_2012\_29\_5.JPG



Looking at the irrigation pipe outlet on the site.

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

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 2101 Blewett**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	09/27/2019 09/27/2019	Alberto De Leon

LM Start	<b>2.87</b>	Rating **	U	Issue No.	<b>29 (cont)</b>
LM End	<b>2.87</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.639852°	37.639852°
				-121.229979°	-121.229979°
DWR ID	RD2101U01RM74.97				
Comment Code					
Inspector Comment					
Site ID: RD2101U01RM74.97 09/17/2019: The erosion has been caused by the irrigation pipe leakage.					

Photo 2 of 3 : SJR2019\_DWR\_RD2101\_01\_s \_ 2012\_29\_4.JPG



Close view of the erosion. Note the broken concrete blocks on the site.

LM Start	<b>2.87</b>	Rating **	U	Issue No.	<b>29 (cont)</b>
LM End	<b>2.87</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : SJR2019\_DWR\_RD2101\_01\_s \_ 2012\_29\_2.JPG



Close-up view of the erosion.

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

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 2101 Blewett**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	09/27/2019 09/27/2019	Alberto De Leon

LM Start	<b>2.87</b>	Rating **	A/W	Issue No.	<b>954</b>
LM End	<b>2.87</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			37.639884 °	37.639884 °
				-121.230008 °	-121.230008 °
DWR ID	20709				
Comment Code					
Inspector Comment					
DS_ID:20709 FS_ID:20876 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 2 of 2: 24-inch drainage pipe of an unknown material through the levee, 12.5 feet below the crown. Concrete U-shaped headwalls on each end. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 12, December 1968, (HLM 2.89)]. FS Date: 9/19/2013					

Photo 1 of 3 : UCIP\_FA\_2019\_20876\_35159.jpg



Concrete inlet on LS toe at canal.

LM Start	<b>2.87</b>	Rating **	A/W	Issue No.	<b>954 (cont)</b>
LM End	<b>2.87</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2019\_20876\_35158.jpg



Concrete U-shaped headwall on WS toe with flapgate.

<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 - Fall 2019**

**Reclamation District No. 2101 Blewett**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	09/27/2019 09/27/2019	Alberto De Leon

LM Start	<b>2.87</b>	Rating **	A/W	Issue No.	<b>954 (cont)</b>
LM End	<b>2.87</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			37.639884 °	37.639884 °
				-121.230008 °	-121.230008 °
DWR ID	20709				
Comment Code					
Inspector Comment					
DS_ID:20709 FS_ID:20876 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 2 of 2: 24-inch drainage pipe of an unknown material through the levee, 12.5 feet below the crown. Concrete U-shaped headwalls on each end. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 12, December 1968, (HLM 2.89)]. FS Date: 9/19/2013					

Photo 3 of 3 : UCIP\_FA\_2019\_20876\_35157.jpg



Concrete inlet on LS toe at canal.

LM Start	<b>2.91</b>	Rating **	M	Issue No.	<b>45</b>
LM End	<b>3.10</b>	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.639463 °	37.637631 °
				-121.230315 °	-121.233070 °
DWR ID	DWR_RD2101_01_f_2018_45				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

No Photos

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

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2019**

**Reclamation District No. 2101 Blewett**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River (Spur Levee)	Right	0.30	09/27/2019 09/27/2019	Alberto De Leon

LM Start	<b>0.01</b>	Rating **	A	Issue No.	<b>1</b>
LM End	<b>0.30</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.659943°	37.663984°
				-121.243482°	-121.242914°
DWR ID	DWR_RD2101_02_f_2019_1				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is well maintained.					

Photo 1 of 1 : FA\_2019\_RD2101\_327\_1\_20191001\_00001.jpg



Typical view of vegetation on landside slope. Fall 2019

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