

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2017

Reclamation District No. 2092 Dos Rios

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Right | 3.71 | 09/27/2017 09/27/2017 | Pavel Kazi |

| | | | | | |
|--|-------------------------------|--------------|----|------------------------|-----------|
| LM Start | 0.00 | Rating ** | A | Issue No. | 18 |
| LM End | 0.00 | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Flood Preparedness & Training | | | | |
| DWR ID | DWR_RD2092_01_f_2012_18 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| A few members of the company have already been through a few flood events and received proper training. They are planning to attend flood fight training course this season. | | | | | |

No Photos

| | | | | | |
|---|----------------------------------|--------------|----|------------------------|-----------|
| LM Start | 0.00 | Rating ** | A | Issue No. | 24 |
| LM End | 0.00 | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Operations & Maintenance Manuals | | | | |
| DWR ID | DWR_RD2092_01_s_2012_24 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| They have the latest O&M manual for their district. | | | | | |

No Photos

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

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| Unit No. 01 San Joaquin River | Right | 3.71 | 09/27/2017 09/27/2017 | Pavel Kazi |

| | | | | | |
|---|--------------------------------|--------------|----|------------------------|-----|
| LM Start | 0.00 | Rating ** | A | Issue No. | 26 |
| LM End | 0.00 | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Emergency Supplies & Equipment | | | | ° |
| | | | | | ° |
| DWR ID | DWR_RD2092_01_s_2012_26 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| LMA has adequate flood fighting supplies. | | | | | |

No Photos

| | | | | | | |
|--|-----------------------------|--------------|----|------------------------|-----|---------------|
| LM Start | 0.18 | Rating ** | M | Issue No. | 973 | |
| LM End | 0.18 | Issue Type + | Ma | Location * | | |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | DWR UCIP LMA Responsibility | | | 37.602031 ° | | 37.602031 ° |
| | | | | -121.161249 ° | | -121.161249 ° |
| DWR ID | | | | | | |
| Comment Code | | | | | | |
| | | | | | | |
| Inspector Comment | | | | | | |
| FS_ID:27123 | | | | | | |
| DS_ID:20561 | | | | | | |
| EP_NO: N/A | | | | | | |
| Repair Type: Non-Urgent | | | | | | |
| Crossing Status: Found | | | | | | |
| UCIP Comments: Pipe rusted through at headwall on LS toe. Good candidate for video inspection. | | | | | | |
| FIELD_STRUCT_DESC: 60-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. Flap gate on the waterside (WS) end. Slide gate in an 80-inch corrugated metal pipe (CMP) riser on the WS slope. Concrete U-shaped headwalls on both ends. | | | | | | |
| [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 0.18)]. | | | | | | |
| FS Date: 1/16/2014 12:03:14 PM | | | | | | |

Photo 1 of 3 : UCIP_FA_2017_27123_50242.jpg



Slide gate in 80-inch CMP riser on WS slope.

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

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| Unit No. 01 San Joaquin River | Right | 3.71 | 09/27/2017 09/27/2017 | Pavel Kazi |

| | | | | | |
|---|-----------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.18 | Rating ** | M | Issue No. | 973 (cont) |
| LM End | 0.18 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP LMA Responsibility | | | 37.602031 ° | 37.602031 ° |
| | | | | -121.161249 ° | -121.161249 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:27123 | | | | | |
| DS_ID:20561 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: Non-Urgent | | | | | |
| Crossing Status: Found | | | | | |
| UCIP Comments: Pipe rusted through at headwall on LS toe. Good candidate for video inspection. | | | | | |
| FIELD_STRUCT_DESC: 60-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. Flap gate on the waterside (WS) end. Slide gate in an 80-inch corrugated metal pipe (CMP) riser on the WS slope. Concrete U-shaped headwalls on both ends. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 0.18)]. | | | | | |
| FS Date: 1/16/2014 12:03:14 PM | | | | | |

Photo 2 of 3 : UCIP_FA_2017_27123_50241.jpg



Concrete headwall on LS toe in front of pump on pier.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 0.18 | Rating ** | M | Issue No. | 973 (cont) |
| LM End | 0.18 | Issue Type + | Ma | Location * | |

Photo 3 of 3 : UCIP_FA_2017_27123_50240.jpg



Flapgate and headwall on WS toe.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
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|-------------------------------|-------|------------|--------------------------|------------|
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| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.48 | Rating ** | A | Issue No. | 17 |
| LM End | 0.48 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.600979 ° | 37.600979 ° |
| | | | | -121.166488 ° | -121.166488 ° |
| DWR ID | DWR_RD2092_01_f_2017_17 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| Acceptable vegetation. | | | | | |

Photo 1 of 1 : FA_2017_RD2092_116_17_20170928_00058.jpg



View of the landside slope of the levee looking upstream. Fall 2017

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.21 | Rating ** | C | Issue No. | 15 |
| LM End | 1.21 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.591293 ° | 37.591293 ° |
| | | | | -121.165434 ° | -121.165434 ° |
| DWR ID | DWR_RD2092_01_s_2016_15 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.29 | Rating ** | M | Issue No. | 39 |
| LM End | 1.29 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.590701 ° | 37.590701 ° |
| | | | | -121.164339 ° | -121.164339 ° |
| DWR ID | DWR_RD2092_01_s_2017_39 | | | | |
| Comment Code | | | | | |
| C3 : Add appropriate gravel or road base. Grade and compact. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
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| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 1.32 | Rating ** | A/W | Issue No. | 10 |
| LM End | 1.32 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.590467 ° | 37.590467 ° |
| | | | | -121.163822 ° | -121.163822 ° |
| DWR ID | DWR_RD2092_01_s_2012_10 | | | | |
| Comment Code | | | | | |
| PI : Pipe | | | | | |
| Inspector Comment | | | | | |
| A sand boil appeared on the landside toe of the levee because of an underground pipe leakage. The pipe and boil have been repaired but should be monitored. | | | | | |

Photo 1 of 2 : FA_2017_RD2092_116_10_20170921_00002.jpg



During spring inspection 2012, the sand boil was not active but materials were present on the landside toe of the levee. The sand boil occurred due to an underground irrigation pipe leakage. The picture was taken from the crown looking toward the toe of the levee. The area was repaired but should be monitored.

| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 1.32 | Rating ** | A/W | Issue No. | 10 (cont) |
| LM End | 1.32 | Issue Type + | Ma | Location * | LS |

Photo 2 of 2 : FA_2017_RD2092_116_10_20170921_00003.jpg



A sand boil was found on the landside of the levee. It was caused by a pipe leak couple of feet below the boil location. LMA was notified to repair it as soon as possible. The picture was taken from the crown looking upstream.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
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| | | | | | | |
|--|-------------------------|--------------|----|------------------------|----|---------------|
| LM Start | 1.42 | Rating ** | A | Issue No. | 19 | |
| LM End | 1.42 | Issue Type + | Ma | Location * | WS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Vegetation | | | 37.589444 ° | | 37.589444 ° |
| | | | | -121.162418 ° | | -121.162418 ° |
| DWR ID | DWR_RD2092_01_f_2017_19 | | | | | |
| Comment Code | | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | | |
| Inspector Comment | | | | | | |
| Acceptable vegetation. | | | | | | |

Photo 1 of 1 : FA_2017_RD2092_116_19_20170928_00059.jpg



View of the vegetation on the waterside slope of the levee looking upstream. Fall 2017

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.56 | Rating ** | C | Issue No. | 16 |
| LM End | 1.56 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.587593 ° | 37.587593 ° |
| | | | | -121.162431 ° | -121.162431 ° |
| DWR ID | DWR_RD2092_01_f_2016_16 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
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|-------------------------------|-------|------------|--------------------------|---------------|
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| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.58 | Rating ** | C | Issue No. | 38 |
| LM End | 1.58 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.587282 ° | 37.587282 ° |
| | | | | -121.162641 ° | -121.162641 ° |
| DWR ID | DWR_RD2092_01_s _ 2017_38 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.66 | Rating ** | C | Issue No. | 21 |
| LM End | 1.66 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.586267 ° | 37.586267 ° |
| | | | | -121.163209 ° | -121.163209 ° |
| DWR ID | DWR_RD2092_01_s _ 2017_21 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
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| Unit No. 01 San Joaquin River | Right | 3.71 | 09/27/2017 09/27/2017 | Pavel Kazi |

| | | | | | |
|--|-----------------------------|--------------|-----|------------------------|---------------|
| LM Start | 1.69 | Rating ** | A/W | Issue No. | 977 |
| LM End | 1.69 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP LMA Responsibility | | | 37.585938 ° | 37.585938 ° |
| | | | | -121.163348 ° | -121.163348 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:20891 | | | | | |
| DS_ID:20563 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: No Action Needed | | | | | |
| Crossing Status: Found | | | | | |
| UCIP Comments: | | | | | |
| FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 1.71)]. | | | | | |
| FS Date: 9/24/2013 | | | | | |

Photo 1 of 3 : UCIP_FA_2017_20891_35216.jpg



Slide gate in 36-inch CMP riser on WS slope.

| | | | | | |
|----------|-------------|--------------|-----|------------|-------------------|
| LM Start | 1.69 | Rating ** | A/W | Issue No. | 977 (cont) |
| LM End | 1.69 | Issue Type + | Ma | Location * | |

Photo 2 of 3 : UCIP_FA_2017_20891_35215.jpg



Slide gate in 36-inch CMP riser on WS slope.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
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| | | | | | | |
|---|-----------------------------|--------------|-----|------------------------|---------------|--|
| LM Start | 1.69 | Rating ** | A/W | Issue No. | 977 (cont) | |
| LM End | 1.69 | Issue Type + | Ma | Location * | | |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| | | | | Start | End | |
| Item | DWR UCIP LMA Responsibility | | | 37.585938 ° | 37.585938 ° | |
| | | | | -121.163348 ° | -121.163348 ° | |
| DWR ID | | | | | | |
| Comment Code | | | | | | |
| | | | | | | |
| Inspector Comment | | | | | | |
| FS_ID:20891 DS_ID:20563 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 1.71)]. FS Date: 9/24/2013 | | | | | | |

Photo 3 of 3 : UCIP_FA_2017_20891_35214.jpg



Concrete headwall at base of LS toe.

| | | | | | |
|--|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.92 | Rating ** | M | Issue No. | 37 |
| LM End | 1.92 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.584273 ° | 37.584273 ° |
| | | | | -121.161034 ° | -121.161034 ° |
| DWR ID | DWR_RD2092_01_s_2017_37 | | | | |
| Comment Code | | | | | |
| C3 : Add appropriate gravel or road base. Grade and compact. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
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| | | | | | |
|--|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.04 | Rating ** | M | Issue No. | 29 |
| LM End | 2.04 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.584270 ° | 37.584270 ° |
| | | | | -121.158820 ° | -121.158820 ° |
| DWR ID | DWR_RD2092_01_s_2017_29 | | | | |
| Comment Code | | | | | |
| C2 : Repair depressions or ruts in the crown or slope. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|-----------------------------|--------------|-----|------------------------|---------------|
| LM Start | 2.07 | Rating ** | A/W | Issue No. | 978 |
| LM End | 2.07 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP LMA Responsibility | | | 37.584212 ° | 37.584212 ° |
| | | | | -121.158347 ° | -121.158347 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:20904 DS_ID:20564 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: *ABANDONED* 30-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwalls on both ends. Filled with concrete on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 2.10), 36-inch pipe listed]. FS Date: 9/24/2013 | | | | | |

Photo 1 of 2 : UCIP_FA_2017_20904_35221.jpg



Pipe and concrete headwall visible on LS toe to right of powerpole.

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
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| | | | | | |
|--|-----------------------------|--------------|-----|------------------------|---------------|
| LM Start | 2.07 | Rating ** | A/W | Issue No. | 978 (cont) |
| LM End | 2.07 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP LMA Responsibility | | | 37.584212 ° | 37.584212 ° |
| | | | | -121.158347 ° | -121.158347 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:20904 DS_ID:20564 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: *ABANDONED* 30-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwalls on both ends. Filled with concrete on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 2.10), 36-inch pipe listed]. FS Date: 9/24/2013 | | | | | |

Photo 2 of 2 : UCIP_FA_2017_20904_35220.jpg



Pipe and concrete headwall visible on LS toe.

| | | | | | |
|--|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.20 | Rating ** | M | Issue No. | 30 |
| LM End | 2.20 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.583080 ° | 37.583080 ° |
| | | | | -121.156387 ° | -121.156387 ° |
| DWR ID | DWR_RD2092_01_s_2017_30 | | | | |
| Comment Code | | | | | |
| C2 : Repair depressions or ruts in the crown or slope. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2017

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Right | 3.71 | 09/27/2017 09/27/2017 | Pavel Kazi |

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 2.40 | Rating ** | M | Issue No. | 981 (cont) |
| LM End | 2.40 | Issue Type + | Ma | Location * | |

Concrete U-shaped headwall and flapgate on WS berm.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2017

Reclamation District No. 2092 Dos Rios

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Right | 3.71 | 09/27/2017 09/27/2017 | Pavel Kazi |

| | | | | | |
|---|-----------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.40 | Rating ** | M | Issue No. | 981 (cont) |
| LM End | 2.40 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP LMA Responsibility | | | 37.580426 ° | 37.580426 ° |
| | | | | -121.156798 ° | -121.156798 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:20943 DS_ID:20567 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on the WS end. Concrete headwall on the landside (LS) toe next to pump. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 2.44)]. FS Date: 9/24/2013 | | | | | |

Photo 3 of 3 : UCIP_FA_2017_20943_35252.jpg



Concrete headwall next to pump on WS toe.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.41 | Rating ** | C | Issue No. | 31 |
| LM End | 2.41 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.580292 ° | 37.580292 ° |
| | | | | -121.156847 ° | -121.156847 ° |
| DWR ID | DWR_RD2092_01_s_2017_31 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2017

Reclamation District No. 2092 Dos Rios

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Right | 3.71 | 09/27/2017 09/27/2017 | Pavel Kazi |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.58 | Rating ** | C | Issue No. | 33 |
| LM End | 2.58 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.577820 ° | 37.577820 ° |
| | | | | -121.157079 ° | -121.157079 ° |
| DWR ID | DWR_RD2092_01_s_2017_33 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 2.61 | Rating ** | A | Issue No. | 36 |
| LM End | 2.61 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.577522° | 37.577522° |
| | | | | -121.157126° | -121.157126° |
| DWR ID | DWR_RD2092_01_s_2017_36 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| LMA repaired the rodent hole at this location. | | | | | |

Photo 1 of 2 : FA_2017_RD2092_116_36_20170928_00062.jpg



LMA repaired a few rodent holes on the waterside slope of the levee looking downstream. Fall 2017

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.61 | Rating ** | A | Issue No. | 36 (cont) |
| LM End | 2.61 | Issue Type + | Ma | Location * | WS |

Photo 2 of 2 : FA_2017_RD2092_116_36_20170921_00010.jpg



View of a rodent hole on the waterside slope of the levee.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2017

Reclamation District No. 2092 Dos Rios

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Right | 3.71 | 09/27/2017 09/27/2017 | Pavel Kazi |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.62 | Rating ** | A | Issue No. | 34 |
| LM End | 2.62 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.577364 ° | 37.577364 ° |
| | | | | -121.157131 ° | -121.157131 ° |
| DWR ID | DWR_RD2092_01_s_2017_34 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| LMA repaired the rodent holes at this location. | | | | | |

Photo 1 of 2 : FA_2017_RD2092_116_34_20170928_00061.jpg



View of the landside slope of the levee where the LMA repaired a few rodent holes. Fall 2017

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.62 | Rating ** | A | Issue No. | 34 (cont) |
| LM End | 2.62 | Issue Type + | Ma | Location * | LS |

Photo 2 of 2 : FA_2017_RD2092_116_34_20170921_00008.jpg



View of rodent holes on the landside slope of the levee looking downstream. Spring 2017

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2017

Reclamation District No. 2092 Dos Rios

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Right | 3.71 | 09/27/2017 09/27/2017 | Pavel Kazi |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.82 | Rating ** | U | Issue No. | 35 |
| LM End | 2.82 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.574869 ° | 37.574869 ° |
| | | | | -121.156247 ° | -121.156247 ° |
| DWR ID | DWR_RD2092_01_s_2017_35 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : FA_2017_RD2092_116_35_20170928_00064.jpg



Updated picture of the rodent holes on the waterside of the levee looking upstream. Fall 2017

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.82 | Rating ** | U | Issue No. | 35 (cont) |
| LM End | 2.82 | Issue Type + | Ma | Location * | WS |

Photo 2 of 2 : FA_2017_RD2092_116_35_20170921_00009.jpg



View of multiple rodent holes on the waterside slope of the levee. Spring 2017

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2017

Reclamation District No. 2092 Dos Rios

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|-------|------------|--------------------------|---------------|
| Unit No. 01 San Joaquin River | Right | 3.71 | 09/27/2017 09/27/2017 | Pavel Kazi |

| | | | | | | |
|--|-----------------------------|--------------|----|------------------------|---------------|-----|
| LM Start | 3.47 | Rating ** | M | Issue No. | 984 (cont) | |
| LM End | 3.47 | Issue Type + | Ma | Location * | | |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | DWR UCIP LMA Responsibility | | | 37.573304 ° | 37.573304 ° | |
| | | | | -121.144747 ° | -121.144747 ° | |
| DWR ID | | | | | | |
| Comment Code | | | | | | |
| | | | | | | |
| Inspector Comment | | | | | | |
| FS_ID:20945 | | | | | | |
| DS_ID:20572 | | | | | | |
| EP_NO: N/A | | | | | | |
| Repair Type: Non-Urgent | | | | | | |
| Crossing Status: Found | | | | | | |
| UCIP Comments: This pipe appears abandoned and if so, should be done so properly. | | | | | | |
| FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwalls on both ends. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 5, August 1961, (HLM 3.52)]. | | | | | | |
| FS Date: 9/24/2013 | | | | | | |

Photo 3 of 3 : UCIP_FA_2017_20945_35262.jpg



Grate over sump on LS toe.

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