

Flood Control Project Maintenance Levee Inspections

Fall 2023 Levee Maintenance Deficiency Summary Report

San Joaquin River Basin

| RD1602 | Overall LMA Rating | Total LMA Miles | | | | | | |
|--|------------------------|-----------------|--------------|-------------|-------------|---------|------------------------------|---------|
| Reclamation District No. 1602 Del Puerto | U | 6.24 | | | | | | |
| Rated Item | Maintenance Deficiency | | | | Enforcement | | Design & System Obsolescence | |
| | M Miles | U Miles | M + 4U Miles | Threshold % | M Miles | U Miles | M Miles | U Miles |
| <i>Earthen Levee</i> | | | | | | | | |
| Vegetation | 0.06 | | 0.06 | 0.96% | 0.01 | 0.01 | | |
| Trim / Thin Trees | 0.07 | 0.02 | 0.15 | 2.40% | | | | |
| Encroachments | | | | | 1.66 | | | |
| Animal Control | 0.14 | 0.41 | 1.78 | 28.53% | | | | |
| Erosion / Foot Traffic | 0.01 | | 0.01 | 0.16% | | | | |
| Erosion / Rills | 0.01 | | 0.01 | 0.16% | | | | |
| Erosion / Vehicle Traffic | 0.01 | | 0.01 | 0.16% | | | | |
| Crown Surface / Depressions / Rutting | 0.01 | | 0.01 | 0.16% | | | | |
| <i>Rivers, Channels & Designated Floodways</i> | | | | | | | | |
| Vegetation & Obstructions | 0.01 | | 0.01 | 0.16% | | | | |
| Encroachments | | | | | | 0.12 | | |
| <i>Supplemental</i> | | | | | | | | |
| DWR UCIP Field Study | | | | | 0.03 | 0.03 | | |
| DWR UCIP LMA Responsibility | | | | | | | | |
| <i>LMA Totals:</i> | 0.32 | 0.43 | 2.04 | 32.70% | 1.70 | 0.16 | 0.00 | 0.00 |

| Unit No. 01 San Joaquin River LB | Overall Unit Rating | Total Unit Miles | | | | | | |
|--|------------------------|------------------|--------------|-------------|-------------|---------|------------------------------|---------|
| RD1602 | U | 6.24 | | | | | | |
| Rated Item | Maintenance Deficiency | | | | Enforcement | | Design & System Obsolescence | |
| | M Miles | U Miles | M + 4U Miles | Threshold % | M Miles | U Miles | M Miles | U Miles |
| <i>Earthen Levee</i> | | | | | | | | |
| Vegetation | 0.06 | | 0.06 | 0.96% | 0.01 | 0.01 | | |
| Trim / Thin Trees | 0.07 | 0.02 | 0.15 | 2.40% | | | | |
| Encroachments | | | | | 1.66 | | | |
| Animal Control | 0.14 | 0.41 | 1.78 | 28.53% | | | | |
| Erosion / Foot Traffic | 0.01 | | 0.01 | 0.16% | | | | |
| Erosion / Rills | 0.01 | | 0.01 | 0.16% | | | | |
| Erosion / Vehicle Traffic | 0.01 | | 0.01 | 0.16% | | | | |
| Crown Surface / Depressions / Rutting | 0.01 | | 0.01 | 0.16% | | | | |
| <i>Rivers, Channels & Designated Floodways</i> | | | | | | | | |
| Vegetation & Obstructions | 0.01 | | 0.01 | 0.16% | | | | |
| Encroachments | | | | | | 0.12 | | |
| <i>Supplemental</i> | | | | | | | | |
| DWR UCIP Field Study | | | | | 0.03 | 0.03 | | |
| DWR UCIP LMA Responsibility | | | | | | | | |
| <i>Unit Totals:</i> | 0.32 | 0.43 | 2.04 | 32.70% | 1.70 | 0.16 | 0.00 | 0.00 |

**Flood Control Project Maintenance
Levee Inspections
LMA District Cover Sheet**

Reclamation District No. 1602 Del Puerto

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

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

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**Flood Control Project Maintenance
Levee Inspections
Unit Cover Sheet**

Reclamation District No. 1602 Del Puerto

| Waterway | | | Bank | Unit Miles |
|--|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit No. 01 San Joaquin River | | | Left | 6.24 |
| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
| Unit Maintenance Rating (Fall Only) | | | U | |
| Date of Inspection | | | 9/6/2023 - 9/6/2023 | |
| DWR Inspector | | | Nate Hicks | |
| Accompanied By | | | Brent Lunt RD1602 | |
| | | | Corey Fujitani DWR | |

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|--|----------------------------------|--------------|----|------------------------|-----|
| LM Start | 0.00 | Rating ** | A | Issue No. | 39 |
| 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_RD1602_01_s _ 2012_39 | | | | |
| Comment Code | | | | | |
| OM : O&M Manuals | | | | | |
| Inspector Comment | | | | | |
| The LMA has all the O&M manuals on hand. | | | | | |

No Photos

| | | | | | |
|--|--------------------------------|--------------|----|------------------------|-----|
| LM Start | 0.00 | Rating ** | A | Issue No. | 77 |
| 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_RD1602_01_s _ 2012_77 | | | | |
| Comment Code | | | | | |
| ES : Emergency Supplies & Equipment | | | | | |
| Inspector Comment | | | | | |
| The LMA has enough flood materials in case of an incident. | | | | | |

No Photos

| | | | | | |
|--|-------------------------------|--------------|----|------------------------|-----|
| LM Start | 0.00 | Rating ** | A | Issue No. | 97 |
| 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_RD1602_01_s _ 2012_97 | | | | |
| Comment Code | | | | | |
| FP : Flood Preparedness & Training | | | | | |
| Inspector Comment | | | | | |
| The LMA has solid understanding of flood fight techniques. | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.01 | Rating ** | M | Issue No. | 57 |
| LM End | 0.01 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.476650 ° | 37.476650 ° |
| | | | | -121.083740 ° | -121.083740 ° |
| DWR ID | DWR_RD1602_01_f_2022_57 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| Rodent burrows in the crown and landside shoulder should be backfilled and compacted. | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.11 | Rating ** | M | Issue No. | 60 |
| LM End | 0.11 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.477289° | 37.477289° |
| | | | | -121.082183° | -121.082183° |
| DWR ID | DWR_RD1602_01_f_2022_60 | | | | |
| Comment Code | | | | | |
| EQ : Equipment | | | | | |
| Inspector Comment | | | | | |
| Farming equipment should be moved off of the landside slope and toe. | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_60_20230905_00025.jpg



Equipment should be moved off of the landside slope and toe. (Fall 2022)

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.18 | Rating ** | A/W | Issue No. | 20 |
| LM End | 0.18 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.477575 ° | 37.477575 ° |
| | | | | -121.080943 ° | -121.080943 ° |
| DWR ID | DWR_RD1602_01_f_2016_20 | | | | |
| 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 | | + 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**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.22 | Rating ** | M | Issue No. | 58 |
| LM End | 0.22 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.477854° | 37.477854° |
| | | | | -121.080361° | -121.080361° |
| DWR ID | DWR_RD1602_01_f_2022_58 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.47 | Rating ** | M | Issue No. | 31 |
| LM End | 0.47 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.479659° | 37.479659° |
| | | | | -121.076419° | -121.076419° |
| DWR ID | DWR_RD1602_01_f_2015_31 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|--------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.50 | Rating ** | M | Issue No. | 110 |
| LM End | 0.50 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.479899° | 37.479899° |
| | | | | -121.075930° | -121.075930° |
| DWR ID | DWR_RD1602_01_f_2018_110 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|----------|-----------------------------|--------------|------------------------|--------------|------------|
| LM Start | 0.58 | Rating ** | U | Issue No. | 200 |
| LM End | 0.58 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | DWR UCIP LMA Responsibility | | 37.480182° | 37.480182° | |
| | | | -121.074765° | -121.074765° | |
| DWR ID | 20215 | | | | |

Comment Code

Inspector Comment

DS_ID:20215
FS_ID:74549
EP_NO: N/A
Repair Type: Urgent
EVAL Issue: 1, Pipe Integrity
Crossing Status: Found
UCIP Comments: 04/05/2022 Record remains Urgent. DMP internal video inspection has found pipe integrity issues. LOF of crossing is between 5 and 6. Crossing will be monitored until funding becomes available to address the issues. No cover on CMP riser causing a safety hazard. (M. Thao - DWR UCIP)
11/18/2016 Crossing has been downgraded from Urgent to No Action Needed a cover has been added to the CMP riser. (O. Magana - DWR UCIP)10/01/2013 Open 60-inch CMP riser on WS needs lid as it's depth may be a hazard to the public. (W. Wylie - DWR UCIP)
FIELD_STRUCT_DESC: 16-inch steel drainage pipe through levee, 11.3 feet below crown. Slide gate in 60-inch corrugated metal pipe (CMP) riser located on the waterside (WS). Concrete inlet is approximately 110 feet west of the levee crown or 110 feet off landside (LS) toe next to roadway. [Additional Reference(s): DWR Levee Log, 1992 (HLM 0.58). USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 0.58), Station 290+48, Drawing No. 7-4-1784].
FS Date: 4/5/2022

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 0.58 | Rating ** | U | Issue No. | 200 (cont) |
| LM End | 0.58 | Issue Type + | Ma | Location * | |

Photo 1 of 2 : UCIP_FA_2023_74549_111308.jpg



WS view: Looking into CMP riser at slide gate.

Photo 2 of 2 : UCIP_FA_2023_74549_111309.jpg



WS view: Looking into CMP riser at deteriorated pipe inlet.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.60 | Rating ** | M | Issue No. | 70 |
| LM End | 0.71 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.479967° | 37.478514° |
| | | | | -121.074582° | -121.073435° |
| DWR ID | DWR_RD1602_01_s_2012_70 | | | | |
| Comment Code | | | | | |
| FE : Fence | | | | | |
| Inspector Comment | | | | | |
| Barbed wire fence along the landward toe. | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_70_20230905_00031.jpg



View of barbed wire fence at landward toe looking upstream. (Spring 2022)

| | | | | | |
|--|---|--------------|----|------------------------|--------------|
| LM Start | 0.61 | Rating ** | U | Issue No. | 29 |
| LM End | 0.73 | Issue Type + | En | Location * | WS |
| Category | Rivers, Channels & Designated Floodways | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.479815° | 37.478415° |
| | | | | -121.074479° | -121.073284° |
| DWR ID | DWR_RD1602_01_f_2021_29 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Material piled within the channel. Part of bmx course. | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_29_20230905_00008.jpg



Haul road constructed by an adjacent landowner and material piled in the channel. (Fall 2021)

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|---|--------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.63 | Rating ** | M | Issue No. | 107 |
| LM End | 0.63 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.479569° | 37.479569° |
| | | | | -121.074299° | -121.074299° |
| DWR ID | DWR_RD1602_01_f_2018_107 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.64 | Rating ** | M | Issue No. | 30 |
| LM End | 0.64 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.479391° | 37.479391° |
| | | | | -121.074168° | -121.074168° |
| DWR ID | DWR_RD1602_01_f_2017_30 | | | | |
| 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_2023_RD1602_110_30_20230905_00009.jpg



View of rodent holes on the waterside slope of the levee. Fall 2017

| | | | | | |
|--|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.77 | Rating ** | M | Issue No. | 35 |
| LM End | 0.77 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.478020° | 37.478020° |
| | | | | -121.072663° | -121.072663° |
| DWR ID | DWR_RD1602_01_f_2023_35 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| Remove vegetation off the levee toe around the standpipe structure. | | | | | |

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 |
|--|--|---|---|

Reclamation District No. 1602 Del Puerto

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|--|-----------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.00 | Rating ** | M | Issue No. | 202 |
| LM End | 1.00 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP LMA Responsibility | | | 37.478816° | 37.478816° |
| | | | | -121.068780° | -121.068780° |
| DWR ID | 20217 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| DS_ID:20217 FS_ID:74539 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 4b, Safety Issue Crossing Status: Found UCIP Comments: 04/05/2022 Record remains Non-Urgent. Pump and platform on LS has been removed. The crossing has been capped and exposed on the LS toe. Unable to find a permit for modification. Crossing appears abandoned. Unable to locate a permit and confirm proper pipe abandonment. Recommend owner to contact CVFPB to abandon or remove pipe from levee. Cover missing on CMP riser causing a safety hazard. (M. Thao - DWR UCIP) 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent a flap gate has been added to the WS but pipe is currently not connected to pump. According to Tony Martinez, LMA representative, this crossing is currently not in use. Owner will need to coordinate with CVFPB to obtain permit. (O. Magana - DWR UCIP)10/01/2013 Appears abandoned and if so should be done so properly. Flapgate missing. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 1 of 2: 16-inch steel drainage pipe through levee, 17 feet below crown. Pipe is capped on the landside (LS) end. Pumps on the pump platform are located on LS. Siphon breaker in 24-inch corrugated metal pipe (CMP) riser is located on the waterside (WS) shoulder. Concrete "U" headwall and flap gate are located on the WS end. [Additional Reference(s): DWR Levee Log, 1992 (HLM 1.01). USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.01), Station 266+68, listed as 16-inch pipe, Drawing No. 7-4-1784]. FS Date: 4/5/2022 | | | | | |

Photo 1 of 2 : UCIP_FA_2023_74539_111263.jpg



LS view: Close-up view of pipe inlet capped.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|----------|-----------------------------|--------------|----|------------------------|-------------------|
| LM Start | 1.00 | Rating ** | M | Issue No. | 202 (cont) |
| LM End | 1.00 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP LMA Responsibility | | | 37.478816° | 37.478816° |
| | | | | -121.068780° | -121.068780° |
| DWR ID | 20217 | | | | |

Photo 2 of 2 : UCIP_FA_2023_74539_111264.jpg



WS view: Siphon breaker in CMP riser on shoulder; missing cover on riser. Concrete headwall on toe in background.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|--|-----------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.00 | Rating ** | M | Issue No. | 203 |
| LM End | 1.00 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP LMA Responsibility | | | 37.478817° | 37.478817° |
| | | | | -121.068773° | -121.068773° |
| DWR ID | 20219 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| DS_ID:20219 FS_ID:74536 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 10, Unauthorized Modification or Non-Compliant Permit Crossing Status: Found UCIP Comments: 04/05/2022 Record remains Non-Urgent. Pump and platform on LS has been removed. The crossing has been capped and exposed on the LS toe. Unable to find a permit for modification. Crossing appears abandoned. Unable to locate a permit and confirm proper pipe abandonment. Recommend owner to contact CVFPB to abandon or remove pipe from levee. (M. Thao - DWR UCIP) 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent a flap gate has been added to the WS. According to Tony Martinez, LMA representative, this crossing is currently not in use. Owner will need to coordinate with CVFPB to obtain permit. (O. Magana - DWR UCIP) 10/01/2013 Appears abandoned siphon breakers covered in soil and flapgate missing. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 2 of 2: 16-inch steel drainage pipe through levee, 17 feet below crown. Pipe is capped on the landside (LS) end. Pumps on the pump platform are located on LS. Siphon breaker in 24-inch riser located on the waterside (WS) shoulder. Concrete "U" headwall and flap gate are located on the WS end. [Additional Reference(s): DWR Levee Log, 1992 (HLM 1.01). USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.01), Station 266+68, listed as 16-inch pipe, Drawing No. 7-4-1784]. FS Date: 4/5/2022 | | | | | |

Photo 1 of 2 : UCIP_FA_2023_74536_111245.jpg



LS view: Looking from crown; general overview.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|----------|-----------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.00 | Rating ** | M | Issue No. | 203 (cont) |
| LM End | 1.00 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP LMA Responsibility | | | 37.478817° | 37.478817° |
| | | | | -121.068773° | -121.068773° |
| DWR ID | 20219 | | | | |

Photo 2 of 2 : UCIP_FA_2023_74536_111247.jpg



LS view: Close-up view of pipe inlet capped.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|----------|-----------------------------|--------------|------------------------|---------------|------------|
| LM Start | 1.02 | Rating ** | U | Issue No. | 204 |
| LM End | 1.02 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | DWR UCIP LMA Responsibility | | 37.478779 ° | 37.478779 ° | |
| | | | -121.068508 ° | -121.068508 ° | |
| DWR ID | 20218 | | | | |

Comment Code

Inspector Comment

DS_ID:20218
FS_ID:75649
EP_NO: N/A
Repair Type: Urgent
EVAL Issue: 2b, Levee Integrity
Crossing Status: Found
UCIP Comments: 04/05/2022 Record remains Urgent. WS concrete headwall is still detached with vertical erosion behind the headwall on the WS slope. Was not able to inspect the flap gate due to water on present on WS. Modification was made on the LS to move the grated inlet at the toe landward approximately 100 feet; unable to find a permit for modification. (M. Thao - DWR UCIP)
10/19/2018 Pipe remains the same. WS concrete headwall is still detached with vertical erosion on the WS slope. Dense vegetation along pipe alignment made it difficult to inspect levee slopes and identify any potential issues present at this site. Recommend clearing vegetation along pipe alignment to be able to conduct a proper UCIP inspection. This crossing is part of DWR's Flood System Repair Project (FSRP) and Deferred Maintenance Project (DMP). Crossing will be monitored to identify progress of erosion on the WS slope. Crossing remains Urgent due to the detachment of the concrete wall and vertical cut on the WS. (O. Magana - DWR UCIP)
11/18/2016 Same as previous inspection headwall on the WS toe has seperated from pipe and flap gate is still missing. Erosion around concrete headwall and undermined WS slope are visible from WS. The slope undermined appears to have progressed but no photos were taken due to the dense vegetation covering area. According to Tony Martinez, LMA representative, the WS concrete headwall has been detached since 2008/2009. LMA has been in contact with CVFPB, DWR, and USACE regarding this site. (O. Magana - DWR UCIP)
10/01/2013 Headwall on WS toe seperated from pipe. Erosion around concrete headwall and undermined at WS toe. Flap gate missing from WS toe headwall. (W. Wylie - DWR UCIP)
FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee, 25.4 feet below crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Slide gate in concrete surge box located on the WS slope. A 5-foot by 5-foot concrete box is located on LS toe. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992 (HLM 1.03). USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.02), Station 266+29, listed as 30-inch pipe, Drawing No. 7-4-1784].
FS Date: 4/5/2022

Photo 1 of 2 : UCIP_FA_2023_75649_111240.jpg



WS view: Looking toward levee; concrete headwall on toe with erosion.

| | | |
|---|---|--|
| * Location LS: Land Side WS: Water Side CR: Crown | ** Rating A: Acceptable M: Minimally Acceptable U: Unacceptable | + Issue Type Ma: Maintenance Deficiency Ob: Design & System Obsolescence En: Enforcement |
|---|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|----------|-----------------------------|--------------|----|------------------------|-------------------|
| LM Start | 1.02 | Rating ** | U | Issue No. | 204 (cont) |
| LM End | 1.02 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP LMA Responsibility | | | 37.478779° | 37.478779° |
| | | | | -121.068508° | -121.068508° |
| DWR ID | 20218 | | | | |

Photo 2 of 2 : UCIP_FA_2023_75649_111241.jpg



WS view: Close-up view of detached concrete headwall on toe.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.02 | Rating ** | M | Issue No. | 37 |
| LM End | 1.06 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.478775° | 37.478530° |
| | | | | -121.068485° | -121.067680° |
| DWR ID | DWR_RD1602_01_f_2023_37 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.06 | Rating ** | C | Issue No. | 28 |
| LM End | 1.44 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.478535° | 37.478997° |
| | | | | -121.067746° | -121.061409° |
| DWR ID | DWR_RD1602_01_f_2021_28 | | | | |
| Comment Code | | | | | |
| UR : Urban | | | | | |
| Inspector Comment | | | | | |
| Landowner worked with inspection section to get permitted. | | | | | |

No Photos

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | | + 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**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

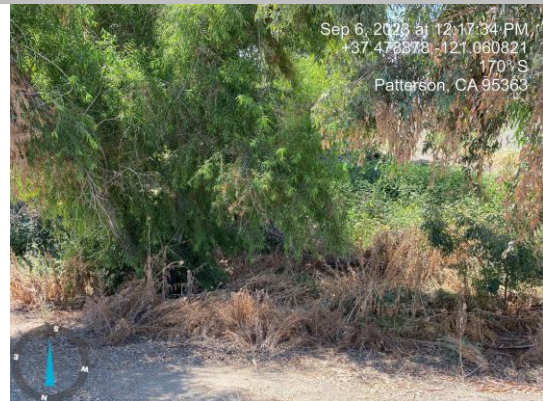
| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.19 | Rating ** | M | Issue No. | 32 |
| LM End | 1.19 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.478347° | 37.478347° |
| | | | | -121.065361° | -121.065361° |
| DWR ID | DWR_RD1602_01_f_2017_32 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.47 | Rating ** | M | Issue No. | 38 |
| LM End | 1.47 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.478876° | 37.478876° |
| | | | | -121.060739° | -121.060739° |
| DWR ID | DWR_RD1602_01_f_2023_38 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth and woody vegetation other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| Remove downed tree limbs and surrounding vegetation off the levee easement. | | | | | |

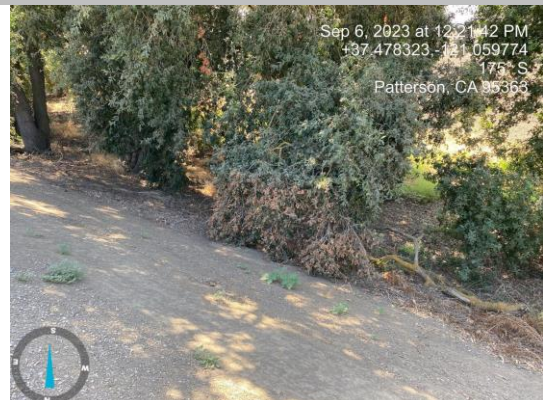
Photo 1 of 1 : FA_2023_RD1602_110_38_20230919_00084.jpg



View of downed trees and woody vegetation on the landside easement (Fall 2023).

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.55 | Rating ** | M | Issue No. | 40 |
| LM End | 1.55 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.478267° | 37.478267° |
| | | | | -121.059626° | -121.059626° |
| DWR ID | DWR_RD1602_01_f_2020_40 | | | | |
| Comment Code | | | | | |
| T2 : Tree or limb. | | | | | |
| Inspector Comment | | | | | |
| Remove fallen branches and thin trees up off the levee slope. | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_40_20230919_00086.jpg



Broken tree limb left on the landside toe (Fall 2023).

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.57 | Rating ** | M | Issue No. | 33 |
| LM End | 1.57 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.478113° | 37.478113° |
| | | | | -121.059287° | -121.059287° |
| DWR ID | DWR_RD1602_01_f _ 2017_33 | | | | |
| Comment Code | | | | | |
| T2 : Tree or limb. | | | | | |
| Inspector Comment | | | | | |
| Remove tree branches from levee slope. | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_33_20230905_00010.jpg



View of tree limb on the landside of the levee.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.61 | Rating ** | M | Issue No. | 43 |
| LM End | 2.22 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.477663° | 37.470125° |
| | | | | -121.058716° | -121.055244° |
| DWR ID | DWR_RD1602_01_s_2012_43 | | | | |
| Comment Code | | | | | |
| FE : Fence | | | | | |
| Inspector Comment | | | | | |
| Fence at the landside toe of the levee. | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_43_20230905_00014.jpg



View of the fence on the landside toe of the levee. The picture was taken from crown looking upstream.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.65 | Rating ** | U | Issue No. | 80 |
| LM End | 1.65 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.477218° | 37.477218° |
| | | | | -121.058505° | -121.058505° |
| DWR ID | DWR_RD1602_01_s_2018_80 | | | | |
| Comment Code | | | | | |
| T2 : Tree or limb. | | | | | |
| Inspector Comment | | | | | |
| Remove discarded tree limbs from levee slope. | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_80_20230905_00034.jpg



Looking at fallen branch on landward slope and toe.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | | + 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**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|-------------------------------------|--------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.80 | Rating ** | M | Issue No. | 104 |
| LM End | 1.80 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.475110° | 37.475110° |
| | | | | -121.057925° | -121.057925° |
| DWR ID | DWR_RD1602_01_f_2018_104 | | | | |
| Comment Code | | | | | |
| T2 : Tree or limb. | | | | | |
| Inspector Comment | | | | | |
| Tree limbs are on the landside toe. | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_104_20230905_00042.jpg



View of tree limbs on the landside toe. (Fall 2018)

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 2.03 | Rating ** | M | Issue No. | 45 |
| LM End | 2.03 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.471734° | 37.471734° |
| | | | | -121.057670° | -121.057670° |
| DWR ID | DWR_RD1602_01_s_2012_45 | | | | |
| Comment Code | | | | | |
| EQ : Equipment | | | | | |
| Inspector Comment | | | | | |
| A well is present at the toe of the landside slope. | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_45_20230905_00016.jpg



A well is located at the landside toe of the levee. The picture was taken from the crown looking toward the landside 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**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 2.07 | Rating ** | U | Issue No. | 93 |
| LM End | 2.10 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.471195° | 37.470812° |
| | | | | -121.057356° | -121.057109° |
| DWR ID | DWR_RD1602_01_s_2020_93 | | | | |
| 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_2023_RD1602_110_93_20230919_00087.jpg



View of rodent burrows on the landside slope (Fall 2023).

| | | | | | |
|----------------------------------|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 2.23 | Rating ** | M | Issue No. | 41 |
| LM End | 2.23 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.470152° | 37.470152° |
| | | | | -121.055075° | -121.055075° |
| DWR ID | DWR_RD1602_01_f_2023_41 | | | | |
| Comment Code | | | | | |
| T3 : Fallen tree with root ball. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_41_20230919_00085.jpg



View of downed tree with root ball exposed on waterside slope (Fall 2023).

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 2.29 | Rating ** | M | Issue No. | 79 |
| LM End | 2.29 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.470348° | 37.470348° |
| | | | | -121.053987° | -121.053987° |
| DWR ID | DWR_RD1602_01_s_2017_79 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|--------------|
| LM Start | 2.85 | Rating ** | A/W | Issue No. | 47 |
| LM End | 2.86 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.466294° | 37.466166° |
| | | | | -121.045693° | -121.045527° |
| DWR ID | DWR_RD1602_01_f_2016_47 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|--------------|
| LM Start | 2.89 | Rating ** | A/W | Issue No. | 49 |
| LM End | 2.89 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.465898° | 37.465898° |
| | | | | -121.045209° | -121.045209° |
| DWR ID | DWR_RD1602_01_f_2016_49 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|--------------|
| LM Start | 2.93 | Rating ** | A/W | Issue No. | 61 |
| LM End | 3.20 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.465435° | 37.462497° |
| | | | | -121.044790° | -121.041681° |
| DWR ID | DWR_RD1602_01_f_2023_61 | | | | |
| Comment Code | | | | | |
| E1 : Note and monitor erosion site. | | | | | |
| Inspector Comment | | | | | |
| Monitor site for additional wave wash damage. | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|--------------|
| LM Start | 2.95 | Rating ** | A/W | Issue No. | 51 |
| LM End | 2.95 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.465190° | 37.465190° |
| | | | | -121.044584° | -121.044584° |
| DWR ID | DWR_RD1602_01_f_2016_51 | | | | |
| 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_2023_RD1602_110_51_20230905_00019.jpg



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

| | | | | | |
|---|---------------------------|--------------|----|------------------------|--------------|
| LM Start | 2.98 | Rating ** | C | Issue No. | 95 |
| LM End | 2.98 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.464810° | 37.464810° |
| | | | | -121.044248° | -121.044248° |
| DWR ID | DWR_RD1602_01_f _ 2018_95 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 3.20 | Rating ** | M | Issue No. | 59 |
| LM End | 3.20 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.462476° | 37.462476° |
| | | | | -121.041686° | -121.041686° |
| DWR ID | DWR_RD1602_01_f_2020_59 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|---------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|---|---------------------------|--------------|----|------------------------|--------------|
| LM Start | 3.24 | Rating ** | C | Issue No. | 94 |
| LM End | 3.24 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.461879° | 37.461879° |
| | | | | -121.041519° | -121.041519° |
| DWR ID | DWR_RD1602_01_f _ 2018_94 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|--|----------------------|--------------|----|------------------------|--------------|
| LM Start | 3.27 | Rating ** | U | Issue No. | 205 |
| LM End | 3.27 | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.461507° | 37.461507° |
| | | | | -121.041609° | -121.041609° |
| DWR ID | 20204 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| DS_ID:20204 FS_ID:74530 EP_NO: 8193 Repair Type: Urgent EVAL Issue: 1, Pipe Integrity Crossing Status: Found UCIP Comments: 04/05/2022 Record remains Urgent. Pipe inlet within CMP riser is deteriorated. CMP riser cover has broken and fallen into the riser; no cover on the riser causing a safety hazard. Crossing appears abandoned. Recommend owner to contact CVFPB to abandon or remove pipe from levee. (M. Thao - DWR UCIP) 10/19/2018 Pipe is deteriorated on the LS toe (pipe section missing at inlet). This crossing remains Urgent due to the wall deterioration at the inlet. If wall is rusted out at the inlet, need to determine the condition of the pipe section through the levee. According to the LMA representative, this crossing is no longer in use (crossing is abandoned). LMA is interested in abandoning crossing in place. LMA was referred to the CVFPB staff for direction regarding proper action under Title 23 for this crossing. (O. Magana - DWR UCIP) 11/18/2016 Same as previous inspection riser cover and handle on slide gate are still missing. Crossing remains Urgent due to the public safety issue of the 60-inch CMP cover still missing. According to Tony Martinez, LMA representative, the condition and future use of this crossing is being evaluated. Owner will need to coordinate with CVFPB for future use requirements or proper abandonment/removal. (O. Magana - DWR UCIP) 10/01/2013 Appears abandoned, and if so should be done so properly. No handle on slide gate, no cover on CMP standpipe on WS shoulder. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through levee, 11.5 feet below crown. Slide gate in 60-inch corrugated metal pipe riser is located on the waterside (WS) slope. Pipe discharges into concrete-lined ditch on the landside (LS) (irrigation pipe was authorized under Automatic Board Order (ABO) issued as Permit No. 8193, 1964 - Sabatte). [Additional Reference(s): DWR Levee Log, 1992 (HLM 3.30). USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 3.30), Station 146+62, listed as 16-inch pipe, Drawing No. 7-4-1784]. FS Date: 4/5/2022 | | | | | |

Photo 1 of 3 : UCIP_FA_2023_74530_76528.jpg



Concrete drain channel located on LS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|----------|----------------------|--------------|------------------------|--------------|-------------------|
| LM Start | 3.27 | Rating ** | U | Issue No. | 205 (cont) |
| LM End | 3.27 | Issue Type + | En | Location * | |
| Category | Supplemental | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | DWR UCIP Field Study | | 37.461507° | 37.461507° | |
| | | | -121.041609° | -121.041609° | |
| DWR ID | 20204 | | | | |

Photo 2 of 3 : UCIP_FA_2023_74530_76529.jpg



View of WS--CMP riser located on WS shoulder and concrete riser approximately 100 feet from levee crown.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 3.27 | Rating ** | U | Issue No. | 205 (cont) |
| LM End | 3.27 | Issue Type + | En | Location * | |

Photo 3 of 3 : UCIP_FA_2023_74530_76530.jpg



Concrete riser located in the floodway, photo 1 of 2.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 3.32 | Rating ** | M | Issue No. | 56 |
| LM End | 3.32 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.460811° | 37.460811° |
| | | | | -121.042078° | -121.042078° |
| DWR ID | DWR_RD1602_01_s_2017_56 | | | | |
| 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_2023_RD1602_110_56_20230919_00088.jpg



View of rodent holes on the landside of the levee (Fall 2023).

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | | + 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**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.34 | Rating ** | M | Issue No. | 50 |
| LM End | 3.53 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.460644 ° | 37.458373 ° |
| | | | | -121.042231 ° | -121.044081 ° |
| DWR ID | DWR_RD1602_01_s _ 2012_50 | | | | |
| Comment Code | | | | | |
| DT : Ditch | | | | | |
| Inspector Comment | | | | | |
| A ditch is located on the waterside toe of the levee. | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_50_20230905_00018.jpg



Looking upstream along the waterside toe. (Spring 2020)

| | | | | | |
|---|---------------------------------------|--------------|----|------------------------|--------------|
| LM Start | 3.37 | Rating ** | C | Issue No. | 113 |
| LM End | 3.37 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.460217° | 37.460217° |
| | | | | -121.042583° | -121.042583° |
| DWR ID | DWR_RD1602_01_s _ 2019_113 | | | | |
| Comment Code | | | | | |
| C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.43 | Rating ** | M | Issue No. | 26 |
| LM End | 3.43 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.459653 ° | 37.459653 ° |
| | | | | -121.043204 ° | -121.043204 ° |
| DWR ID | DWR_RD1602_01_s _ 2022_26 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|---|----------------------|--------------|----|------------------------|--------------|
| LM Start | 3.53 | Rating ** | M | Issue No. | 206 |
| LM End | 3.53 | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.458300° | 37.458300° |
| | | | | -121.044138° | -121.044138° |
| DWR ID | 20221 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| DS_ID:20221 FS_ID:74520 EP_NO: 8191 Repair Type: Non-Urgent EVAL Issue: 6, Levee Damage or Threat for Levee Damage Crossing Status: Found UCIP Comments: 04/05/2022 Record updated from No Action Needed to Non-Urgent. Minor erosion was present around the downstream sides of the concrete distribution box on the LS toe. (M. Thao - DWR UCIP) FIELD_STRUCT_DESC: 1 of 3: 20-inch steel irrigation pipe through the levee, 3.7 feet below the crown. Pump on pump platform on the waterside (WS) bank. Siphon breaker in a 24-inch riser on the landside (LS) shoulder. Concrete discharge box on the LS end. (two 18-inch and one 20-inch pipes were authorized under Automatic Board Order (ABO) issued as Permit No. 8191, 1972 - Twin Oaks Irrigation District c/o Mr. V. R. Peterson). [Additional Reference(s): DWR Levee Log, 1992 (HLM 3.57). USACE San Joaquin O&M Manual 13, April 1964, (HLM 3.57), Station 132+32, listed as 20-inch pipe, Drawing No. 7-4-1784]. FS Date: 4/5/2022 | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 3.53 | Rating ** | M | Issue No. | 206 (cont) |
| LM End | 3.53 | Issue Type + | En | Location * | |

Photo 1 of 2 : UCIP_FA_2023_74520_111227.jpg



LS view: Concrete discharge box on toe; erosion around downstream sides.

Photo 2 of 2 : UCIP_FA_2023_74520_111228.jpg



LS view: Concrete discharge box on toe; erosion around downstream sides.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|---|----------------------|--------------|----|------------------------|--------------|
| LM Start | 3.53 | Rating ** | M | Issue No. | 207 |
| LM End | 3.53 | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.458292° | 37.458292° |
| | | | | -121.044149° | -121.044149° |
| DWR ID | 20220 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| DS_ID:20220 FS_ID:74519 EP_NO: 8191 Repair Type: Non-Urgent EVAL Issue: 6, Levee Damage or Threat for Levee Damage Crossing Status: Found UCIP Comments: 04/05/2022 Record updated from No Action Needed to Non-Urgent. Minor erosion was present around the downstream sides of the concrete distribution box on the LS toe. (M. Thao - DWR UCIP) FIELD_STRUCT_DESC: 2 of 3: 18-inch steel irrigation pipe through the levee, 3.7 feet below the crown. Pump on pump platform on the waterside (WS) bank. Siphon breaker in a 24-inch riser on the landside (LS) shoulder. Concrete discharge box on the LS end. (Two 18-inch and one 20-inch pipes were authorized under Automatic Board Order (ABO) issued as Permit No. 8191, 1972 - Twin Oaks Irrigation District c/o Mr. V. R. Peterson). [Additional Reference(s): DWR Levee Log, 1992 (HLM 3.57). USACE San Joaquin O&M Manual 13, April 1964, (HLM 3.57), Station 132+32, listed as 18-inch pipe, Drawing No. 7-4-1784]. FS Date: 4/5/2022 | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 3.53 | Rating ** | M | Issue No. | 207 (cont) |
| LM End | 3.53 | Issue Type + | En | Location * | |

Photo 1 of 2 : UCIP_FA_2023_74519_111221.jpg



LS view: Concrete discharge box on toe; erosion around downstream sides.

Photo 2 of 2 : UCIP_FA_2023_74519_111222.jpg



LS view: Concrete discharge box on toe; erosion around downstream sides.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|--|----------------------|--------------|----|------------------------|--------------|
| LM Start | 3.54 | Rating ** | M | Issue No. | 208 |
| LM End | 3.54 | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.458283° | 37.458283° |
| | | | | -121.044146° | -121.044146° |
| DWR ID | 20205 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| DS_ID:20205 FS_ID:74503 EP_NO: 8191 Repair Type: Non-Urgent EVAL Issue: 6, Levee Damage or Threat for Levee Damage Crossing Status: Found UCIP Comments: 04/05/2022 Record updated from No Action Needed to Non-Urgent. Siphon breaker in CMP riser is broken; recommend repairing the siphon breaker. Minor erosion was present around the downstream sides of the concrete distribution box on the LS toe. (M. Thao - DWR UCIP) FIELD_STRUCT_DESC: 3 of 3: 18-inch steel irrigation pipe through the levee, 3.7 feet below the crown. Pump on pump platform on the waterside (WS) bank. Siphon breaker in a 24-inch riser on the landside (LS) shoulder. Concrete discharge box on the LS end. (two 18-inch and one 20-inch pipes were authorized under Automatic Board Order (ABO) issued as Permit No. 8191, 1972 - Twin Oaks Irrigation District c/o Mr. V. R. Peterson). [Additional Reference(s): DWR Levee Log, 1992 (HLM 3.57). USACE San Joaquin O&M Manual 13, April 1964, (HLM 3.57), Station 132+32, listed as 18-inch pipe, Drawing No. 7-4-1784]. FS Date: 4/5/2022 | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 3.54 | Rating ** | M | Issue No. | 208 (cont) |
| LM End | 3.54 | Issue Type + | En | Location * | |

Photo 1 of 3 : UCIP_FA_2023_74503_111215.jpg



LS view: Close-up view of broken siphon breaker.

Photo 2 of 3 : UCIP_FA_2023_74503_111216.jpg



LS view: Concrete discharge box on toe; erosion around downstream sides.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|----------|----------------------|--------------|------------------------|---------------|-------------------|
| LM Start | 3.54 | Rating ** | M | Issue No. | 208 (cont) |
| LM End | 3.54 | Issue Type + | En | Location * | |
| Category | Supplemental | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | DWR UCIP Field Study | | 37.458283 ° | 37.458283 ° | |
| | | | -121.044146 ° | -121.044146 ° | |
| DWR ID | 20205 | | | | |

Photo 3 of 3 : UCIP_FA_2023_74503_111217.jpg



LS view: Concrete discharge box on toe; erosion around downstream sides.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 3.76 | Rating ** | U | Issue No. | 83 |
| LM End | 3.76 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.455414° | 37.455414° |
| | | | | -121.043765° | -121.043765° |
| DWR ID | DWR_RD1602_01_s_2017_83 | | | | |
| Comment Code | | | | | |
| T2 : Tree or limb. | | | | | |
| Inspector Comment | | | | | |
| Fallen tree has been moved to the floodway. It should be removed from the floodway. | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_83_20230905_00035.jpg



View of a tree trunk 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**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|--------------|
| LM Start | 3.82 | Rating ** | M | Issue No. | 66 |
| LM End | 3.92 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.454611° | 37.453309° |
| | | | | -121.043193° | -121.042191° |
| DWR ID | DWR_RD1602_01_f _ 2013_66 | | | | |
| Comment Code | | | | | |
| FE : Fence | | | | | |
| Inspector Comment | | | | | |
| Fence, animal pen and other encroachments at landward toe. | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_66_20230905_00028.jpg



Looking southwest at animal pens and other encroachments on landward toe. (Spring 2018)

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 3.82 | Rating ** | M | Issue No. | 42 |
| LM End | 3.82 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.454574° | 37.454574° |
| | | | | -121.043142° | -121.043142° |
| DWR ID | DWR_RD1602_01_s_2012_42 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| Cactus on the landside slope should be removed. | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_42_20230905_00013.jpg



Cactus growing on the landside slope. (Fall 2020)

| | | | | | |
|----------------------------|---------------------|--------------|-----|------------------------|--------------|
| LM Start | 3.90 | Rating ** | A/W | Issue No. | 18 |
| LM End | 3.90 | Issue Type + | Ob | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Seepage / Sandboils | | | 37.453620° | 37.453620° |
| | | | | -121.042410° | -121.042410° |
| DWR ID | 190-FOC-1 | | | | |
| Comment Code | | | | | |
| SS : Seepage / Sandboils | | | | | |
| Inspector Comment | | | | | |
| 2017 Storm Damage | | | | | |
| Site ID No:118 | | | | | |
| Site Designation:190-FOC-1 | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 3.90 | Rating ** | M | Issue No. | 84 |
| LM End | 3.90 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.453566° | 37.453566° |
| | | | | -121.042376° | -121.042376° |
| DWR ID | DWR_RD1602_01_s_2017_84 | | | | |
| 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_2023_RD1602_110_84_20230905_00036.jpg



View of rodent holes on the waterside of the levee.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 3.93 | Rating ** | M | Issue No. | 64 |
| LM End | 3.93 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Rills | | | 37.453304° | 37.453304° |
| | | | | -121.042175° | -121.042175° |
| DWR ID | DWR_RD1602_01_f_2023_64 | | | | |
| Comment Code | | | | | |
| E5 : Schedule repair of rills prior to the next inspection. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--------------------------|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 3.93 | Rating ** | M | Issue No. | 63 |
| LM End | 4.04 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.453226° | 37.451866° |
| | | | | -121.042118° | -121.041206° |
| DWR ID | DWR_RD1602_01_s_2012_63 | | | | |
| Comment Code | | | | | |
| FE : Fence | | | | | |
| Inspector Comment | | | | | |
| Fence on landward slope. | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_63_20230905_00027.jpg



Looking upstream at fence on landward slope. (Spring 2018)

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 3.93 | Rating ** | M | Issue No. | 62 |
| LM End | 3.93 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Foot Traffic | | | 37.453216° | 37.453216° |
| | | | | -121.042127° | -121.042127° |
| DWR ID | DWR_RD1602_01_s_2012_62 | | | | |
| Comment Code | | | | | |
| E3 : Repair the levee slope damaged by foot traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| Significant damage to USACE constructed seepage berm due to human activity. | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_62_20230905_00026.jpg



View of damage to seepage berm constructed on the landside toe. (Fall 2020)

| | | | | | |
|----------------------------|---------------------|--------------|-----|------------------------|--------------|
| LM Start | 4.03 | Rating ** | A/W | Issue No. | 21 |
| LM End | 4.03 | Issue Type + | Ob | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Seepage / Sandboils | | | 37.451990° | 37.451990° |
| | | | | -121.041240° | -121.041240° |
| DWR ID | 190-FOC-2 | | | | |
| Comment Code | | | | | |
| SS : Seepage / Sandboils | | | | | |
| Inspector Comment | | | | | |
| 2017 Storm Damage | | | | | |
| Site ID No:119 | | | | | |
| Site Designation:190-FOC-2 | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 4.04 | Rating ** | U | Issue No. | 74 |
| LM End | 4.32 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.451892° | 37.448492° |
| | | | | -121.041168° | -121.038303° |
| DWR ID | DWR_RD1602_01_s_2019_74 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_74_20230905_00033.jpg



Looking at the landside slope from the levee toe. (Spring 2020)

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|--------------------------|-------------------------|--------------|-----|------------------------|--------------|
| LM Start | 4.13 | Rating ** | A/W | Issue No. | 23 |
| LM End | 4.45 | Issue Type + | Ob | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Seepage / Sandboils | | | 37.450930° | 37.446820° |
| | | | | -121.039990° | -121.037840° |
| DWR ID | DWR_RD1602_01_f_2023_23 | | | | |
| Comment Code | | | | | |
| SS : Seepage / Sandboils | | | | | |
| Inspector Comment | | | | | |
| 2017 Storm Damage | | | | | |
| Site ID No:120 | | | | | |
| Site Designation:190-101 | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|--------------|
| LM Start | 4.14 | Rating ** | A/W | Issue No. | 65 |
| LM End | 4.14 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.450768° | 37.450768° |
| | | | | -121.039865° | -121.039865° |
| DWR ID | DWR_RD1602_01_f_2023_65 | | | | |
| Comment Code | | | | | |
| E1 : Note and monitor erosion site. | | | | | |
| Inspector Comment | | | | | |
| Erosion approximately 15 feet off of the waterside toe that has not encroached into the levee prism. Monitor site and repair prior to flood season. | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_65_20230919_00094.jpg



View of erosion off the waterside toe (Fall 2023).

| | | | | | |
|--------------------|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 4.22 | Rating ** | C | Issue No. | 73 |
| LM End | 4.22 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.449814° | 37.449814° |
| | | | | -121.039112° | -121.039112° |
| DWR ID | DWR_RD1602_01_s_2019_73 | | | | |
| Comment Code | | | | | |
| T2 : Tree or limb. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|--------------|
| LM Start | 4.38 | Rating ** | A/W | Issue No. | 71 |
| LM End | 4.44 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.447761° | 37.446872° |
| | | | | -121.037845° | -121.037822° |
| DWR ID | DWR_RD1602_01_s_2019_71 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 4.42 | Rating ** | M | Issue No. | 67 |
| LM End | 4.88 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.447213° | 37.441014° |
| | | | | -121.037665° | -121.036932° |
| DWR ID | DWR_RD1602_01_s_2012_67 | | | | |
| Comment Code | | | | | |
| FE : Fence | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_67_20230905_00029.jpg



View of the fence on the landside toe of the levee. 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 |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | | |
|--|----------------------|--------------|----|------------------------|--------------|--|
| LM Start | 4.47 | Rating ** | U | Issue No. | 209 | |
| LM End | 4.47 | Issue Type + | En | Location * | | |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| | | | | Start | End | |
| Item | DWR UCIP Field Study | | | 37.446545° | 37.446545° | |
| | | | | -121.037941° | -121.037941° | |
| DWR ID | 20207 | | | | | |
| Comment Code | | | | | | |
| | | | | | | |
| Inspector Comment | | | | | | |
| DS_ID:20207 | | | | | | |
| FS_ID:74531 | | | | | | |
| EP_NO: 8195 | | | | | | |
| Repair Type: Urgent | | | | | | |
| EVAL Issue: 1, Pipe Integrity | | | | | | |
| Crossing Status: Found | | | | | | |
| UCIP Comments: 04/05/2022 Record updated from Non-Urgent to Urgent. Pipe inlet and outlet within CMP riser is deteriorated. Broken wood pallet was used as a cover causing a safety hazard. No handle on slide gate in CMP riser on WS slope. Alfalfa valve was not capped in concrete distribution box on LS toe. (M. Thao - DWR UCIP) | | | | | | |
| 11/18/2016 60-inch riser has a temporary cover therefore crossing has been downgraded from Urgent to Non-Urgent. (O. Magana - DWR UCIP) | | | | | | |
| 10/01/2013 Lid missing from 60-inch CMP riser, may be an attractive nuisance or hazard to public. (W. Wylie - DWR UCIP) | | | | | | |
| FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through levee, 10 feet below crown. Slide gate in 60-inch corrugated metal pipe riser located on the waterside (WS) slope. Concrete discharge box is located on landside (LS) end. Pipe is buried across WS berm to pump located on the riverbank approximately 1,000 feet from the levee. (18-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 8195, 1972 - Larry Buehner). [Additional Reference(s): DWR Levee Log, 1992 (HLM 4.51). USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 4.51), Station 81+60, listed as 18-inch pipe, Drawing No. 7-4-1784]. | | | | | | |
| FS Date: 4/5/2022 | | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 4.47 | Rating ** | U | Issue No. | 209 (cont) |
| LM End | 4.47 | Issue Type + | En | Location * | |

Photo 1 of 2 : UCIP_FA_2023_74531_111172.jpg



LS view: Pipe outlet on toe within concrete ditch.

Photo 2 of 2 : UCIP_FA_2023_74531_111174.jpg



WS view: Looking into CMP riser; inlet of pipe through levee is deteriorating.

| | | | | | |
|----------------|---------------------|-------------------------|--|----------------------------------|--|
| * 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 | |

Reclamation District No. 1602 Del Puerto

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|--------------|
| LM Start | 4.59 | Rating ** | A/W | Issue No. | 54 |
| LM End | 4.59 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.444758° | 37.444758° |
| | | | | -121.037703° | -121.037703° |
| DWR ID | DWR_RD1602_01_f_2022_54 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| No rodent holes observed but needs to be monitored. | | | | | |

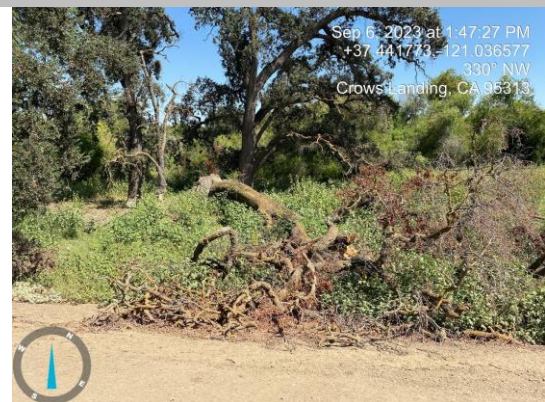
No Photos

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|--------------|
| LM Start | 4.76 | Rating ** | A/W | Issue No. | 46 |
| LM End | 4.81 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.442490° | 37.441905° |
| | | | | -121.037005° | -121.036591° |
| DWR ID | DWR_RD1602_01_f_2020_46 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|----------------------------------|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 4.82 | Rating ** | M | Issue No. | 68 |
| LM End | 4.82 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.441726° | 37.441726° |
| | | | | -121.036538° | -121.036538° |
| DWR ID | DWR_RD1602_01_f_2023_68 | | | | |
| Comment Code | | | | | |
| T3 : Fallen tree with root ball. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_68_20230919_00093.jpg



View of fallen tree on waterside slope (Fall 2023).

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|--------------|
| LM Start | 4.86 | Rating ** | A/W | Issue No. | 19 |
| LM End | 4.86 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.441235° | 37.441235° |
| | | | | -121.036792° | -121.036792° |
| DWR ID | DWR_RD1602_01_f_2021_19 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| No rodent holes observed but needs to be monitored since holes could have been covered by dragging. | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_19_20230905_00002.jpg



View of several rodent burrows in the landside slope. (Fall 2021)

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 5.00 | Rating ** | U | Issue No. | 44 |
| LM End | 5.00 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.439404° | 37.439404° |
| | | | | -121.037470° | -121.037470° |
| DWR ID | DWR_RD1602_01_f_2020_44 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| Rodent holes have collapsed in on themselves and should be backfilled and compacted properly. | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_44_20230905_00015.jpg



Several rodent holes noted at this location. (Fall 2020)

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 5.04 | Rating ** | U | Issue No. | 53 |
| LM End | 5.04 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.438810° | 37.438810° |
| | | | | -121.037254° | -121.037254° |
| DWR ID | DWR_RD1602_01_f_2022_53 | | | | |
| 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_2023_RD1602_110_53_20230905_00021.jpg



Several large animal burrows were observed at this location. (Fall 2022)

| | | | | | |
|--|--|---|--|---|--|
| * 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 | |
|--|--|---|--|---|--|

Reclamation District No. 1602 Del Puerto

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 5.13 | Rating ** | M | Issue No. | 92 |
| LM End | 5.13 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.437527° | 37.437527° |
| | | | | -121.036967° | -121.036967° |
| DWR ID | DWR_RD1602_01_s_2017_92 | | | | |
| 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_2023_RD1602_110_92_20230905_00039.jpg



View of a rodent hole on the waterside shoulder of the levee looking downstream.

| | | | | | |
|---|--------------------------|--------------|-----|------------------------|--------------|
| LM Start | 5.16 | Rating ** | A/W | Issue No. | 141 |
| LM End | 5.16 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.437146° | 37.437146° |
| | | | | -121.036814° | -121.036814° |
| DWR ID | DWR_RD1602_01_s_2020_141 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| No rodent holes observed but needs to be monitored since holes could have been covered by dragging. | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 5.18 | Rating ** | U | Issue No. | 48 |
| LM End | 5.18 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.436785° | 37.436785° |
| | | | | -121.036593° | -121.036593° |
| DWR ID | DWR_RD1602_01_s_2016_48 | | | | |
| 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_2023_RD1602_110_48_20230905_00017.jpg



View of rodent holes on the waterside of the levee looking downstream.
(Fall 2021)

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|--|-----------------------------|--------------|----|------------------------|--------------|
| LM Start | 5.19 | Rating ** | U | Issue No. | 210 |
| LM End | 5.19 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP LMA Responsibility | | | 37.436748° | 37.436748° |
| | | | | -121.036597° | -121.036597° |
| DWR ID | 20208 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| DS_ID:20208 FS_ID:74358 EP_NO: N/A Repair Type: Urgent EVAL Issue: 1, Pipe Integrity Crossing Status: Found UCIP Comments: 04/05/2022 Record remains Urgent. DMP internal video inspection has found pipe integrity issues. LOF of crossing is between 5 and 6. Crossing will be monitored until funding becomes available to address the issues. No cover present on CMP riser causing a safety hazard. Vegetation is growing and partially blocking the inlet on LS; recommend removing vegetation. No cover was present on CMP riser causing a safety hazard. Soil and debris, previously mentioned, have been cleared so flap gate and slide gate was operational. (M. Thao - DWR UCIP) 11/18/2016 Same as previous inspection soil and debris prevent flap gate from properly functioning and slide gate won't close due to sediment build up. Crossing has been downgraded from Urgent to Non-Urgent due to no pipe or levee integrity issues observed during the site visit. Need to contact owner to determine status of crossing. If crossing is no longer in use owner will need to coordinate with CVFPB to properly abandon or remove according to Title 23 requirements. (O. Magana - DWR UCIP)10/01/2013 Soil and debris prevent flapgate from proper function. Slide gate won't close completely due to sediment buildup. CMP riser needs cover. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 24-inch steel drainage pipe through levee, 11.6 feet below crown. Concrete headwall on the landside (LS) end. Concrete "U" headwall and flap gate located on the waterside (WS) end. Slide gate in a 60-inch corrugated metal pipe (CMP) riser is located on the WS slope. [Additional Reference(s): DWR Levee Log, 1992 (HLM 5.23). USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 5.23), Station 43+40, listed as 24-inch pipe, Drawing No. 7-4-1784]. FS Date: 4/5/2022 | | | | | |

Photo 1 of 2 : UCIP_FA_2023_74358_111160.jpg



WS view: Looking from crown; CMP riser with no cover on slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|----------|-----------------------------|--------------|----|------------------------|-------------------|
| LM Start | 5.19 | Rating ** | U | Issue No. | 210 (cont) |
| LM End | 5.19 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP LMA Responsibility | | | 37.436748 ° | 37.436748 ° |
| | | | | -121.036597 ° | -121.036597 ° |
| DWR ID | 20208 | | | | |

Photo 2 of 2 : UCIP_FA_2023_74358_111161.jpg



WS view: Looking into CMP riser.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.21 | Rating ** | U | Issue No. | 27 |
| LM End | 5.21 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.436470 ° | 37.436470 ° |
| | | | | -121.036356 ° | -121.036356 ° |
| DWR ID | DWR_RD1602_01_s_2021_27 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_27_20230905_00006.jpg



Large rodent burrows in the landside slope. (Spring 2021)

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 5.22 | Rating ** | U | Issue No. | 52 |
| LM End | 5.22 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.436393° | 37.436393° |
| | | | | -121.036296° | -121.036296° |
| DWR ID | DWR_RD1602_01_s_2018_52 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| Large rodent hole on waterward slope. | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_52_20230905_00020.jpg



View of large rodent burrow on the waterside slope. (Spring 2021)

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | | + 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**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|--------------------|---------------------------|--------------|----|------------------------|--------------|
| LM Start | 5.22 | Rating ** | M | Issue No. | 72 |
| LM End | 5.22 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.436365° | 37.436365° |
| | | | | -121.036262° | -121.036262° |
| DWR ID | DWR_RD1602_01_f _ 2023_72 | | | | |
| Comment Code | | | | | |
| T2 : Tree or limb. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-----------------------------|--------------|-----|------------------------|--------------|
| LM Start | 5.23 | Rating ** | A/W | Issue No. | 211 |
| LM End | 5.23 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP LMA Responsibility | | | 37.436246° | 37.436246° |
| | | | | -121.036193° | -121.036193° |
| DWR ID | 20209 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| DS_ID:20209 FS_ID:77639 EP_NO: 8192 Repair Type: No Action Needed EVAL Issue: Crossing Status: Found UCIP Comments: 04/05/2022 Record remains No Action Needed. No issues observed during inspection. (M. Thao - DWR UCIP) FIELD_STRUCT_DESC: 1 of 2: 36-inch by 36-inch reinforced concrete box drainage culvert through the levee, 15.8 feet below the crown. Slide gate in a 6-foot by 7-foot concrete surge box on the waterside (WS) slope. 36-inch concrete pipes buried on both sides of the levee and connected to the reinforced concrete box culvert. Constructed through the levee section. (two 36-inch by 36-inch culvert [HLM 5.27] authorized under Automatic Board Order (ABO) issued as Permit No. 8192, 1972 - Stanislaus County). [Additional Reference(s): DWR Levee Log, 1992 (HLM 5.27). USACE San Joaquin O&M Manual 13, April 1964, (HLM 5.27), Station 39+25, Drawing No. 7-4-1784]. FS Date: 4/5/2022 | | | | | |

Photo 1 of 3 : UCIP_FA_2023_77639_111146.jpg



Levee crown looking downstream.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|----------|-----------------------------|--------------|------------------------|--------------|-------------------|
| LM Start | 5.23 | Rating ** | A/W | Issue No. | 211 (cont) |
| LM End | 5.23 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | DWR UCIP LMA Responsibility | | 37.436246° | 37.436246° | |
| | | | -121.036193° | -121.036193° | |
| DWR ID | 20209 | | | | |

Photo 2 of 3 : UCIP_FA_2023_77639_111141.jpg



LS view: Looking from crown; general overview.

| | | | | | |
|----------|-------------|--------------|-----|------------|-------------------|
| LM Start | 5.23 | Rating ** | A/W | Issue No. | 211 (cont) |
| LM End | 5.23 | Issue Type + | Ma | Location * | |

Photo 3 of 3 : UCIP_FA_2023_77639_111145.jpg



LS view: Likely risers for pipe off LS toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|---|-----------------------------|--------------|-----|------------------------|--------------|
| LM Start | 5.23 | Rating ** | A/W | Issue No. | 212 |
| LM End | 5.23 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP LMA Responsibility | | | 37.436227° | 37.436227° |
| | | | | -121.036169° | -121.036169° |
| DWR ID | 20222 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| DS_ID:20222 FS_ID:77640 EP_NO: 8192 Repair Type: No Action Needed EVAL Issue: Crossing Status: Found UCIP Comments: 04/05/2022 Record remains No Action Needed. No issues observed during inspection. (M. Thao - DWR UCIP) FIELD_STRUCT_DESC: 2 of 2: 36-inch by 36-inch reinforced concrete box drainage culvert through the levee, 15.8 feet below the crown. Slide gate in a 6-foot by 7-foot concrete surge box on the waterside (WS) slope. 36-inch concrete pipes buried on both sides of the levee and connected to the reinforced concrete box culvert. Constructed through the levee section. (two 36-inch by 36-inch culvert [HLM 5.27] authorized under Automatic Board Order (ABO) issued as Permit No. 8192, 1972 - Stanislaus County). [Additional Reference(s): DWR Levee Log, 1992 (HLM 5.27). USACE San Joaquin O&M Manual 13, April 1964, (HLM 5.27), Station 39+05, Drawing No. 7-4-1784]. FS Date: 4/5/2022 | | | | | |

| | | | | | |
|----------|------|--------------|-----|------------|------------|
| LM Start | 5.23 | Rating ** | A/W | Issue No. | 212 (cont) |
| LM End | 5.23 | Issue Type + | Ma | Location * | |

Photo 1 of 3 : UCIP_FA_2023_77640_111150.jpg



Levee crown looking downstream.

Photo 2 of 3 : UCIP_FA_2023_77640_111147.jpg



LS view: Looking from crown; general overview.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|----------|-----------------------------|--------------|------------------------|--------------|-------------------|
| LM Start | 5.23 | Rating ** | A/W | Issue No. | 212 (cont) |
| LM End | 5.23 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | DWR UCIP LMA Responsibility | | 37.436227° | 37.436227° | |
| | | | -121.036169° | -121.036169° | |
| DWR ID | 20222 | | | | |

Photo 3 of 3 : UCIP_FA_2023_77640_111149.jpg



LS view: Likely risers for pipe off LS toe.

| | | | | | |
|----------|-----------------------------|--------------|------------------------|--------------|------------|
| LM Start | 5.24 | Rating ** | A/W | Issue No. | 213 |
| LM End | 5.24 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | DWR UCIP LMA Responsibility | | 37.436129° | 37.436129° | |
| | | | -121.036065° | -121.036065° | |
| DWR ID | 20210 | | | | |

Comment Code

Inspector Comment

DS_ID:20210
 FS_ID:81195
 EP_NO: N/A
 Repair Type: No Action Needed
 EVAL Issue:
 Crossing Status: Found
 UCIP Comments: 04/05/2022 Record remains No Action Needed. DWR DMP internal video inspection has not found pipe integrity issues. LOF of crossing is less or equal to 4.0. Recommend next video inspection in 5 years. No issues observed during inspection. (M. Thao - DWR UCIP)
 FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box drainage culvert through the levee, 12.9 feet below the crown. Slide gate in a concrete surge box on the waterside (WS) slope. Concrete discharge boxes on both ends. [Additional Reference(s): DWR Levee Log, 1992 (HLM 5.28). USACE San Joaquin O&M Manual 13, April 1964, (HLM 5.28), Station 38+58, Drawing No. 7-4-1784].
 FS Date: 4/5/2022

Photo 1 of 3 : UCIP_FA_2023_81195_111126.jpg



Levee crown looking downstream.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|----------|-----------------------------|--------------|------------------------|--------------|-------------------|
| LM Start | 5.24 | Rating ** | A/W | Issue No. | 213 (cont) |
| LM End | 5.24 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | DWR UCIP LMA Responsibility | | 37.436129° | 37.436129° | |
| | | | -121.036065° | -121.036065° | |
| DWR ID | 20210 | | | | |

Photo 2 of 3 : UCIP_FA_2023_81195_111127.jpg



LS view: Looking from levee crown; general overview.

| | | | | | |
|----------|-------------|--------------|-----|------------|-------------------|
| LM Start | 5.24 | Rating ** | A/W | Issue No. | 213 (cont) |
| LM End | 5.24 | Issue Type + | Ma | Location * | |

Photo 3 of 3 : UCIP_FA_2023_81195_111128.jpg



LS view: Concrete inlet on toe.

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 5.38 | Rating ** | M | Issue No. | 22 |
| LM End | 5.44 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.434447° | 37.433791° |
| | | | | -121.034865° | -121.034000° |
| DWR ID | DWR_RD1602_01_f_2012_22 | | | | |
| Comment Code | | | | | |
| FE : Fence | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_22_20230905_00003.jpg



A fence was found on the landside toe of the levee 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 | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|----------------------------------|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 5.43 | Rating ** | M | Issue No. | 75 |
| LM End | 5.43 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.433975° | 37.433975° |
| | | | | -121.034212° | -121.034212° |
| DWR ID | DWR_RD1602_01_f_2023_75 | | | | |
| Comment Code | | | | | |
| T3 : Fallen tree with root ball. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_75_20230919_00091.jpg



View of fallen tree on waterside slope (Fall 2023).

| | | | | | |
|--|-----------------------------|--------------|----|------------------------|--------------|
| LM Start | 5.46 | Rating ** | M | Issue No. | 214 |
| LM End | 5.46 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP LMA Responsibility | | | 37.433646° | 37.433646° |
| | | | | -121.033846° | -121.033846° |
| DWR ID | 20211 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| DS_ID:20211 FS_ID:75650 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: Crossing Status: Found UCIP Comments: 04/05/2022 Record remains Non-Urgent. Crossing appears abandoned. Recommend owner to contact CVFPB to abandon or remove pipe from levee. DWR DMP internal video inspection has not found pipe integrity issues. LOF of crossing is less or equal to 4.0. Recommend next video inspection in 5 years. (M. Thao - DWR UCIP) 10/01/2013 Pipe appears abandoned and if so should be done so properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 12-inch CMP drainage pipe through the levee, 6.9 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1992 (HLM 5.50). USACE San Joaquin O&M Manual 13, April 1964, (HLM 5.50), listed as 12-inch pipe, Drawing No. 7-4-1784]. FS Date: 4/5/2022 | | | | | |

Photo 1 of 3 : UCIP_FA_2023_75650_111112.jpg



Levee crown looking downstream.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|----------|-----------------------------|--------------|----|------------------------|--------------|
| LM Start | 5.46 | Rating ** | M | Issue No. | 214 (cont) |
| LM End | 5.46 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP LMA Responsibility | | | 37.433646° | 37.433646° |
| | | | | -121.033846° | -121.033846° |
| DWR ID | 20211 | | | | |

Photo 2 of 3 : UCIP_FA_2023_75650_111113.jpg



LS view: Looking from crown; general overview.

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|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 5.46 | Rating ** | M | Issue No. | 214 (cont) |
| LM End | 5.46 | Issue Type + | Ma | Location * | |

Photo 3 of 3 : UCIP_FA_2023_75650_111114.jpg



WS view: Looking from crown; 12-inch CMP outlet with flap gate on toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|--|-----------------------------|--------------|----|------------------------|--------------|
| LM Start | 5.72 | Rating ** | M | Issue No. | 215 |
| LM End | 5.72 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP LMA Responsibility | | | 37.433003° | 37.433003° |
| | | | | -121.029346° | -121.029346° |
| DWR ID | 20212 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| DS_ID:20212 FS_ID:81197 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 5, Pipe Damage Crossing Status: Found UCIP Comments: 04/05/2022 Record remains Non-Urgent. DMP internal video inspection has found pipe integrity issues. LOF of crossing is greater than or equal to 4.1 and less than 5. Crossing will be monitored until funding becomes available for rehabilitation. (M. Thao - DWR UCIP) 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent flap gate is functional. Recommend clearing dense vegetation from WS and LS slopes. (O. Magana - DWR UCIP)10/01/2013 Flapgate has minor blockage preventing gate from fully closing. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 30-inch square reinforced concrete drainage box culvert through levee, 9 feet below crown. Slide gate in concrete riser located on the waterside (WS) slope. Concrete "U" headwalls are located on both the waterside (WS) and landside (LS) ends. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992 (HLM 5.76). USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 5.28), Drawing No. 7-4-1784]. FS Date: 4/5/2022 | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 5.72 | Rating ** | M | Issue No. | 215 (cont) |
| LM End | 5.72 | Issue Type + | Ma | Location * | |

Photo 1 of 2 : UCIP_FA_2023_81197_111109.jpg



LS view: Close-up view of concrete headwall on toe.

Photo 2 of 2 : UCIP_FA_2023_81197_111111.jpg



WS view: Concrete headwall and flap gate; surge box in the background.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|---|---------------------------|--------------|----|------------------------|--------------|
| LM Start | 5.92 | Rating ** | M | Issue No. | 76 |
| LM End | 5.92 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Vehicle Traffic | | | 37.432625° | 37.432625° |
| | | | | -121.026187° | -121.026187° |
| DWR ID | DWR_RD1602_01_f _ 2023_76 | | | | |
| Comment Code | | | | | |
| E6 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_76_20230919_00092.jpg



View of vehicle traffic on waterside slope (Fall 2023).

| | | | | | |
|---|---------------------------|--------------|----|------------------------|--------------|
| LM Start | 5.96 | Rating ** | C | Issue No. | 17 |
| LM End | 5.96 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Vehicle Traffic | | | 37.432154° | 37.432154° |
| | | | | -121.026681° | -121.026681° |
| DWR ID | DWR_RD1602_01_s_2022_17 | | | | |
| Comment Code | | | | | |
| E6 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 6.13 | Rating ** | U | Issue No. | 86 |
| LM End | 6.13 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.430181° | 37.430181° |
| | | | | -121.028679° | -121.028679° |
| DWR ID | DWR_RD1602_01_s_2020_86 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| Cactus blocking view of waterward slope. | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_86_20230919_00090.jpg



Looking at dense cactus growth on the waterside slope (Fall 2023).

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | | + 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**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|--|---------------------------------------|--------------|----|------------------------|--------------|
| LM Start | 6.22 | Rating ** | M | Issue No. | 24 |
| LM End | 6.22 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.429145° | 37.429145° |
| | | | | -121.029714° | -121.029714° |
| DWR ID | DWR_RD1602_01_f _ 2020_24 | | | | |
| Comment Code | | | | | |
| C2 : Repair depressions or ruts in the crown or slope. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2023_RD1602_110_24_20230905_00004.jpg



Depression in levee crown from vehicle traffic. (Spring 2022)

| | | | | | | |
|--|----------------------|--------------|----|------------------------|--------------|--|
| LM Start | 6.24 | Rating ** | U | Issue No. | 216 | |
| LM End | 6.24 | Issue Type + | En | Location * | | |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| | | | | Start | End | |
| Item | DWR UCIP Field Study | | | 37.429032° | 37.429032° | |
| | | | | -121.029867° | -121.029867° | |
| DWR ID | 20214 | | | | | |
| Comment Code | | | | | | |
| | | | | | | |
| Inspector Comment | | | | | | |
| DS_ID:20214 FS_ID:77638 EP_NO: 8194 Repair Type: Urgent EVAL Issue: 1, Pipe Integrity Crossing Status: Found UCIP Comments: 04/05/2022 Record remains Urgent. DMP internal video inspection has found pipe integrity issues. LOF of crossing is between 5 and 6. Crossing will be monitored until funding becomes available to address the issues. (M. Thao - DWR UCIP) 10/01/2013 Pipe heavily deteriorated on LS toe. May indicate condition of rest of pipe is bad. Good candidate for video inspection. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 18-inch reinforced concrete irrigation pipe through the levee, 3 feet below the crown. Slide gate in a 36-inch concrete standpipe on the waterside (WS) shoulder. (18-inch concrete pipe was authorized under Automatic Board Order (ABO) issued as Permit No. 8194, 1972 - Ernest F. Nunes). [Additional Reference(s): DWR Levee Log, 1992 (HLM 6.28). USACE San Joaquin O&M Manual 13, April 1964, (HLM 6.28), Station 0+50A, listed as 18-inch pipe, Drawing No. 7-4-1784]. FS Date: 4/5/2022 | | | | | | |

Photo 1 of 2 : UCIP_FA_2023_77638_111103.jpg



LS view: Outlet of irrigation pipe is deteriorated.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2023

Reclamation District No. 1602 Del Puerto

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|------------|
| Unit No. 01 San Joaquin River | Left | 6.24 | 09/06/2023 09/06/2023 | Nate Hicks |

| | | | | | |
|----------|----------------------|--------------|----|------------------------|-------------------|
| LM Start | 6.24 | Rating ** | U | Issue No. | 216 (cont) |
| LM End | 6.24 | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.429032° | 37.429032° |
| | | | | -121.029867° | -121.029867° |
| DWR ID | 20214 | | | | |

Photo 2 of 2 : UCIP_FA_2023_77638_111106.jpg



LS view: View of inside of pipe outlet.

| | | | |
|--|--|---|---|
| * 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 |
|--|--|---|---|