

**Flood Control Project Maintenance
Levee Inspections**

Fall 2019 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

| RD2089 Reclamation District No. 2089 Stark | Overall LMA Rating | Total LMA Miles | | | | | | |
|---|------------------------|-----------------|--------------|-------------|-------------|---------|------------------------------|---------|
| | U | 2.86 | | | | | | |
| 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 | 0.02 | 6.07 | 24.30 | 850.30% | 0.01 | | | |
| Trim / Thin Trees | 0.17 | 0.02 | 0.25 | 8.75% | | | | |
| Encroachments | 0.04 | | 0.04 | 1.40% | 0.43 | 0.22 | | |
| Animal Control | 0.09 | 0.15 | 0.69 | 24.14% | | | | |
| Slope Stability | 0.02 | | 0.02 | 0.70% | | | | |
| Erosion / Bank Caving | 0.02 | | 0.02 | 0.70% | | | | |
| Crown Surface / Depressions / Rutting | 0.07 | 0.01 | 0.11 | 3.85% | | | | |
| Flood Preparedness & Training | 0.03 | | 0.03 | 1.05% | | | | |
| <i>Supplemental</i> | | | | | | | | |
| DWR Erosion Survey | 0.01 | | 0.01 | 0.35% | | | | |
| DRAFT DWR UCIP Field Study | | | | | 0.05 | | | |
| DRAFT DWR UCIP LMA Responsibility | | | | | | | | |
| 2017 Storm Damage | 0.02 | | 0.02 | 0.70% | | | | |
| <i>LMA Totals:</i> | 0.49 | 6.25 | 25.49 | 891.94% | 0.49 | 0.22 | 0.00 | 0.00 |

| Unit No. 01 Old River RB RD2089 | Overall Unit Rating | Total Unit Miles | | | | | | |
|---------------------------------------|------------------------|------------------|--------------|-------------|-------------|---------|------------------------------|---------|
| | U | 1.51 | | | | | | |
| 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 | | 2.89 | 11.56 | 764.43% | | | | |
| Trim / Thin Trees | 0.12 | 0.01 | 0.16 | 10.58% | | | | |
| Encroachments | 0.01 | | 0.01 | 0.66% | 0.39 | 0.14 | | |
| Animal Control | 0.02 | | 0.02 | 1.32% | | | | |
| Crown Surface / Depressions / Rutting | 0.05 | | 0.05 | 3.31% | | | | |
| <i>Supplemental</i> | | | | | | | | |
| DWR Erosion Survey | 0.01 | | 0.01 | 0.66% | | | | |
| DRAFT DWR UCIP Field Study | | | | | 0.04 | | | |
| DRAFT DWR UCIP LMA Responsibility | | | | | | | | |
| 2017 Storm Damage | 0.01 | | 0.01 | 0.66% | | | | |
| <i>Unit Totals:</i> | 0.22 | 2.90 | 11.82 | 781.62% | 0.43 | 0.14 | 0.00 | 0.00 |

**Flood Control Project Maintenance
Levee Inspections**

Fall 2019 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin (cont.)

| Unit No. 02 Salmon Slough RB | Overall Unit Rating | Total Unit Miles | | | | | | |
|---------------------------------------|------------------------|------------------|--------------|-------------|-------------|---------|------------------------------|---------|
| RD2089 | U | 1.35 | | | | | | |
| 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 | 0.02 | 3.18 | 12.74 | 946.80% | 0.01 | | | |
| Trim / Thin Trees | 0.05 | 0.01 | 0.09 | 6.69% | | | | |
| Encroachments | 0.03 | | 0.03 | 2.23% | 0.04 | 0.08 | | |
| Animal Control | 0.07 | 0.15 | 0.67 | 49.79% | | | | |
| Slope Stability | 0.02 | | 0.02 | 1.49% | | | | |
| Erosion / Bank Caving | 0.02 | | 0.02 | 1.49% | | | | |
| Crown Surface / Depressions / Rutting | 0.02 | 0.01 | 0.06 | 4.46% | | | | |
| <i>Supplemental</i> | | | | | | | | |
| DRAFT DWR UCIP Field Study | | | | | 0.01 | | | |
| 2017 Storm Damage | 0.01 | | 0.01 | 0.74% | | | | |
| <i>Unit Totals:</i> | 0.24 | 3.35 | 13.64 | 1013.68% | 0.06 | 0.08 | 0.00 | 0.00 |

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

Reclamation District No. 2089 Stark

| | 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

Fall 2019 Levee Inspection Results

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles |
|-----------------------|-------|------------|
| Unit No. 01 Old River | Right | 1.51 |

| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
|--|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit Maintenance Rating (Fall Only) | | | U | |
| Date of Inspection | 4/4/2019 - 4/4/2019 | | 11/20/2019 - 11/20/2019 | |
| DWR Inspector | Alberto De Leon | | Alberto De Leon | |
| Accompanied By | Wade Wylie DWR | | | |

Summer & Winter Inspections

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

DWR must be informed on the:

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

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|--|----------------------------------|--------------|------------------------|------------|----------|
| LM Start | | Rating ** | A | Issue No. | 4 |
| LM End | | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | | End |
| Item | Operations & Maintenance Manuals | | | o | |
| | | | | o | |
| DWR ID | DWR_RD2089_01_s_2013_4 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| The O&M Manual is available at the LMA's office. | | | | | |

No Photos

| | | | | | |
|--|--------------------------------|--------------|------------------------|------------|-----------|
| LM Start | | Rating ** | A | Issue No. | 15 |
| LM End | | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | | End |
| Item | Emergency Supplies & Equipment | | | o | |
| | | | | o | |
| DWR ID | DWR_RD2089_01_s_2013_15 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| The LMA has flood fighting supplies on-site. | | | | | |

No Photos

| | | | | | |
|--|-------------------------------|--------------|------------------------|------------|-----------|
| LM Start | | Rating ** | M | Issue No. | 34 |
| LM End | | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | | End |
| Item | Flood Preparedness & Training | | | o | |
| | | | | o | |
| DWR ID | DWR_RD2089_01_s_2013_34 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| The LMA has not attended a flood fight training class in the past few years. They do have an emergency plan. | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|-------------------|------------------------|--------------|------------------------|--------------|----------|
| LM Start | 0.00 | Rating ** | M | Issue No. | 9 |
| LM End | 0.38 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Encroachments | | 37.811681° | 37.809755° | |
| | | | -121.384930° | -121.391520° | |
| DWR ID | DWR_RD2089_01_s_2012_9 | | | | |
| Comment Code | | | | | |
| DT : Ditch | | | | | |
| Inspector Comment | | | | | |

Photo 1 of 1 : FA_2019_RD2089_316_9_20190830_00010.jpg



Ditch flows parallel with the utility line shown in the photo. 05/24/2011

| | | | | | |
|--|---------------------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 0.02 | Rating ** | M | Issue No. | 12 |
| LM End | 0.02 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Crown Surface / Depressions / Rutting | | 37.811537° | 37.811537° | |
| | | | -121.385354° | -121.385354° | |
| DWR ID | DWR_RD2089_01_s_2019_12 | | | | |
| Comment Code | | | | | |
| C2 : Repair depressions or ruts in the crown or slope. | | | | | |
| Inspector Comment | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 0.03 | Rating ** | U | Issue No. | 24 |
| LM End | 0.75 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Vegetation | | 37.811518° | 37.809016° | |
| | | | -121.385362° | -121.397481° | |
| DWR ID | DWR_RD2089_01_f_2019_24 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| Vegetation on landside slope needs to be maintained to allow access and visibility. | | | | | |

Photo 1 of 2 : FA_2019_RD2089_316_24_20191121_00055.jpg



View of vegetation on landside slope. Fall 2019

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------------|--------------|------------------------|--------------|------------------|
| LM Start | 0.03 | Rating ** | U | Issue No. | 24 (cont) |
| LM End | 0.75 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Vegetation | | 37.811518° | 37.809016° | |
| | | | -121.385362° | -121.397481° | |
| DWR ID | DWR_RD2089_01_f_2019_24 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| Vegetation on landside slope needs to be maintained to allow access and visibility. | | | | | |

Photo 2 of 2 : FA_2019_RD2089_316_24_20191121_00061.jpg



View of vegetation on landside slope. Fall 2019

| | | | | | |
|--|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 0.03 | Rating ** | U | Issue No. | 16 |
| LM End | 1.52 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Vegetation | | 37.811517° | 37.806675° | |
| | | | -121.385362° | -121.407951° | |
| DWR ID | DWR_RD2089_01_f_2019_16 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| Vegetation on waterside slope needs to be maintained to allow access and visibility. | | | | | |

Photo 1 of 2 : FA_2019_RD2089_316_16_20191121_00054.jpg



View of vegetation on waterside slope. Fall 2019

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.03 | Rating ** | U | Issue No. | 16 (cont) |
| LM End | 1.52 | Issue Type + | Ma | Location * | WS |

Photo 2 of 2 : FA_2019_RD2089_316_16_20191121_00062.jpg



View of vegetation on waterside slope. Fall 2019

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.03 | Rating ** | U | Issue No. | 18 |
| LM End | 0.03 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.811518° | 37.811518° |
| | | | | -121.385430° | -121.385430° |
| DWR ID | DWR_RD2089_01_f_2018_18 | | | | |
| Comment Code | | | | | |
| T2 : Thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2019_RD2089_316_18_20190830_00016.jpg



Looking west at untrimmed trees on landward slope. (Fall 2018)

| | | | | | |
|---|------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.03 | Rating ** | M | Issue No. | 1 |
| LM End | 0.03 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.811508° | 37.811508° |
| | | | | -121.385464° | -121.385464° |
| DWR ID | DWR_RD2089_01_s_2012_1 | | | | |
| Comment Code | | | | | |
| ST : Stairway | | | | | |
| Inspector Comment | | | | | |
| Steps have been cut into the levee slope. | | | | | |

Photo 1 of 2 : FA_2019_RD2089_316_1_20190830_00001.jpg



View of the stairs eroding into the landside levee slope.

| | | | | | |
|----------|-------------|--------------|----|------------|-----------------|
| LM Start | 0.03 | Rating ** | M | Issue No. | 1 (cont) |
| LM End | 0.03 | Issue Type + | Ma | Location * | LS |

Photo 2 of 2 : FA_2019_RD2089_316_1_20190830_00002.jpg



View of the stairs eroding into the landside levee slope. (Fall 2018)

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|--|--------------------|--------------|----|------------------------|---------------|
| LM Start | 0.45 | Rating ** | C | Issue No. | 19 |
| LM End | 0.45 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.809394 ° | 37.809394 ° |
| | | | | -121.392791 ° | -121.392791 ° |
| DWR ID | RD2089U01RM29.8 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| Site ID: RD2089U01RM29.8 10/30/2019: No new erosion was found at the repaired site. 09/13/2017: This erosion site has been repaired. 07/25/2016: No significant change observed. 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed. 08/23/2011: The site shows loose material around the pipe crossing. The operation of the pipe might have caused an impact on the levee. | | | | | |

No Photos

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.46 | Rating ** | M | Issue No. | 50 |
| LM End | 0.46 | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 37.809501 ° | 37.809501 ° |
| | | | | -121.392798 ° | -121.392798 ° |
| DWR ID | 23042 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| DS_ID:23042 FS_ID:21635 EP_NO: 5641 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - damaged siphon breaker.- most of the pipe on landside exposed on levee slope. FIELD_STRUCT_DESC: 20-inch steel irrigation discharge pipe and electrical conduit through the levee, 5.8 feet below the crown. Pump on a pile structure in the stream. Siphon breaker on the landside (LS) slope. (Plans to replace a rusted out irrigation discharge pipe through the levee authorized under Permit No. 5641, 1967 - Theodore Stark). [Additional Reference(s): DWR Levee Log, 1991. USACE San Joaquin O&M Manual 8, 1968, (HLM 0.46), 21-inch pipe referenced]. FS Date: 9/12/2013 | | | | | |

Photo 1 of 3 : UCIP_FA_2019_21635_36742.jpg



WS view: walkway to pump platform and pump on steel piling structure in the channel.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| LM Start | 0.46 | Rating ** | M | Issue No. | 50 (cont) |
|--|----------------------------|--------------|----|------------------------|--------------|
| LM End | 0.46 | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 37.809501° | 37.809501° |
| | | | | -121.392798° | -121.392798° |
| DWR ID | 23042 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| DS_ID:23042 FS_ID:21635 EP_NO: 5641 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - damaged siphon breaker.- most of the pipe on landside exposed on levee slope. FIELD_STRUCT_DESC: 20-inch steel irrigation discharge pipe and electrical conduit through the levee, 5.8 feet below the crown. Pump on a pile structure in the stream. Siphon breaker on the landside (LS) slope. (Plans to replace a rusted out irrigation discharge pipe through the levee authorized under Permit No. 5641, 1967 - Theodore Stark). [Additional Reference(s): DWR Levee Log, 1991. USACE San Joaquin O&M Manual 8, 1968, (HLM 0.46), 21-inch pipe referenced]. FS Date: 9/12/2013 | | | | | |

Photo 2 of 3 : UCIP_FA_2019_21635_36741.jpg



WS view: steel walkway, electric control box, and pump on steel piling structure in the channel.

| LM Start | 0.46 | Rating ** | M | Issue No. | 50 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 0.46 | Issue Type + | En | Location * | |

Photo 3 of 3 : UCIP_FA_2019_21635_36740.jpg



LS view: overview of exposed steel pipe (right) on levee slope and service pole (left).

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.53 | Rating ** | U | Issue No. | 29 |
| LM End | 0.53 | Issue Type + | En | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.810001° | 37.810001° |
| | | | | -121.393903° | -121.393903° |
| DWR ID | DWR_RD2089_01_f_2019_29 | | | | |
| Comment Code | | | | | |
| TR : Tree or limb | | | | | |
| Inspector Comment | | | | | |
| Remove downed tree limb that is across the levee and blocking crown access. | | | | | |

Photo 1 of 2 : FA_2019_RD2089_316_29_20191121_00057.jpg



View of downed tree limb on crown surface. Fall 2019

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.53 | Rating ** | U | Issue No. | 29 (cont) |
| LM End | 0.53 | Issue Type + | En | Location * | CR |

Photo 2 of 2 : FA_2019_RD2089_316_29_20191121_00058.jpg



View of downed tree limb on crown surface. Fall 2019

| | | | | | |
|--|---------------------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.54 | Rating ** | M | Issue No. | 14 |
| LM End | 0.54 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.810087° | 37.810087° |
| | | | | -121.394200° | -121.394200° |
| DWR ID | DWR_RD2089_01_s_2012_14 | | | | |
| Comment Code | | | | | |
| C3 : Add appropriate gravel or road base. Grade and compact. | | | | | |
| Inspector Comment | | | | | |

Photo 1 of 1 : FA_2019_RD2089_316_14_20190830_00013.jpg



11/10/2011 Depressions in crown.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.58 | Rating ** | M | Issue No. | 35 |
| LM End | 0.58 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.810203° | 37.810203° |
| | | | | -121.394878° | -121.394878° |
| DWR ID | DWR_RD2089_01_f_2019_35 | | | | |
| Comment Code | | | | | |
| T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.62 | Rating ** | M | Issue No. | 36 |
| LM End | 0.62 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.810144° | 37.810144° |
| | | | | -121.395578° | -121.395578° |
| DWR ID | DWR_RD2089_01_f_2019_36 | | | | |
| Comment Code | | | | | |
| T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------|--------------|------------------------|---------------|-----------|
| LM Start | 0.67 | Rating ** | A/W | Issue No. | 20 |
| LM End | 0.68 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | 2017 Storm Damage | | 37.809700 ° | 37.809700 ° | |
| | | | -121.396300 ° | -121.396400 ° | |
| DWR ID | LMA-418 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. Site ID No: 512 Site Designation: LMA-418 Repair Type: Erosion Rating: Serious Field Date: 8/14/2017 Notes: deep erosion more than half way up slope. | | | | | |

Photo 1 of 3 : LEVAL_FA_2019_512_4457.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 0.67 | Rating ** | A/W | Issue No. | 20 (cont) |
| LM End | 0.68 | Issue Type + | Ma | Location * | |

Photo 2 of 3 : LEVAL_FA_2019_512_4458.jpg



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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|--|-------------------|--------------|-----|------------------------|------------------|
| LM Start | 0.67 | Rating ** | A/W | Issue No. | 20 (cont) |
| LM End | 0.68 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.809700° | 37.809700° |
| | | | | -121.396300° | -121.396400° |
| DWR ID | LMA-418 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| <p>Levee Evaluation Comments</p> <p>Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.</p> <p>Site ID No: 512</p> <p>Site Designation: LMA-418</p> <p>Repair Type: Erosion</p> <p>Rating: Serious</p> <p>Field Date: 8/14/2017</p> <p>Notes: deep erosion more than half way up slope.</p> | | | | | |

Photo 3 of 3 : LEVAL_FA_2019_512_4464.jpg



| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.80 | Rating ** | M | Issue No. | 22 |
| LM End | 0.80 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.808466° | 37.808466° |
| | | | | -121.397847° | -121.397847° |
| DWR ID | DWR_RD2089_01_f_2016_22 | | | | |
| Comment Code | | | | | |
| ST : Stairway | | | | | |
| Inspector Comment | | | | | |

Photo 1 of 2 : FA_2019_RD2089_316_22_20191121_00064.jpg



View of steps on landside slope. Fall 2019

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|------------------|
| LM Start | 0.80 | Rating ** | M | Issue No. | 22 (cont) |
| LM End | 0.80 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.808466° | 37.808466° |
| | | | | -121.397847° | -121.397847° |
| DWR ID | DWR_RD2089_01_f_2016_22 | | | | |
| Comment Code | | | | | |
| ST : Stairway | | | | | |
| Inspector Comment | | | | | |

Photo 2 of 2 : FA_2019_RD2089_316_22_20190830_00022.jpg



View of the footpath on the landside levee slope.

| | | | | | |
|--|----------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.80 | Rating ** | M | Issue No. | 51 |
| LM End | 0.80 | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 37.808387° | 37.808387° |
| | | | | -121.397843° | -121.397843° |
| DWR ID | 23043 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| DS_ID:23043 FS_ID:21587 EP_NO: 3385 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - powerline on landside.- electric control box on waterside.- waterside slope erosion under pump platform. FIELD_STRUCT_DESC: 16-inch irrigation discharge pipe of an unknown material through the levee, 5.5 feet below the crown. Two cutoff walls. Slant pump in a pump house on the waterside (WS) slope. Siphon breaker on the landside (LS) slope. (Plans for installation of a pumping plant on the riverbank and a pipe that crosses the levee authorized under Permit No. 3385, 1960 - Eleanor M. Lawrence). [Additional Reference(s): DWR Levee Log, 1991. USACE San Joaquin O&M Manual 8, 1968, (HLM 0.81)]. FS Date: 9/12/2013 | | | | | |

Photo 1 of 3 : UCIP_FA_2019_21587_36635.jpg



WS view: slant pump on wooden platform. Oil leaks from the pump.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|------------------|
| LM Start | 0.80 | Rating ** | M | Issue No. | 51 (cont) |
| LM End | 0.80 | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 37.808387° | 37.808387° |
| | | | | -121.397843° | -121.397843° |
| DWR ID | 23043 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| DS_ID:23043 FS_ID:21587 EP_NO: 3385 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - powerline on landside.- electric control box on waterside.- waterside slope erosion under pump platform. FIELD_STRUCT_DESC: 16-inch irrigation discharge pipe of an unknown material through the levee, 5.5 feet below the crown. Two cutoff walls. Slant pump in a pump house on the waterside (WS) slope. Siphon breaker on the landside (LS) slope. (Plans for installation of a pumping plant on the riverbank and a pipe that crosses the levee authorized under Permit No. 3385, 1960 - Eleanor M. Lawrence). [Additional Reference(s): DWR Levee Log, 1991. USACE San Joaquin O&M Manual 8, 1968, (HLM 0.81)]. FS Date: 9/12/2013 | | | | | |

Photo 2 of 3 : UCIP_FA_2019_21587_36634.jpg



WS view: soil erosion under pump platform. Needs mitigation measures to stop erosion.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.80 | Rating ** | M | Issue No. | 51 (cont) |
| LM End | 0.80 | Issue Type + | En | Location * | |

Photo 3 of 3 : UCIP_FA_2019_21587_36633.jpg



LS view: exposed pipe with siphon breaker on levee slope. Concrete standpipe on levee toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 0.81 | Rating ** | U | Issue No. | 17 |
| LM End | 0.94 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Encroachments | | 37.808319° | 37.806453° | |
| | | | -121.397881° | -121.397755° | |
| DWR ID | DWR_RD2089_01_f_2014_17 | | | | |
| Comment Code | | | | | |
| AT : Agricultural tilling | | | | | |
| Inspector Comment | | | | | |
| The landside levee toe is cut due to farming. | | | | | |

Photo 1 of 2 : FA_2019_RD2089_316_17_20191121_00060.jpg



View of vertical cut along the landside toe. (Fall 2019)

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.81 | Rating ** | U | Issue No. | 17 (cont) |
| LM End | 0.94 | Issue Type + | En | Location * | LS |

Photo 2 of 2 : FA_2019_RD2089_316_17_20190830_00014.jpg



View of the vertical cut along the landside levee toe.

| | | | | | |
|---|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 0.83 | Rating ** | U | Issue No. | 27 |
| LM End | 1.51 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Vegetation | | 37.807991° | 37.806638° | |
| | | | -121.397847° | -121.407833° | |
| DWR ID | DWR_RD2089_01_s_2019_27 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| Vegetation on landside slope needs to be maintained to allow access and visibility. | | | | | |

Photo 1 of 1 : FA_2019_RD2089_316_27_20190830_00025.jpg



View of vegetation on landside slope. (spring 2019)

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.86 | Rating ** | M | Issue No. | 37 |
| LM End | 0.86 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.807519° | 37.807519° |
| | | | | -121.397780° | -121.397780° |
| DWR ID | DWR_RD2089_01_f_2019_37 | | | | |
| Comment Code | | | | | |
| T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.94 | Rating ** | M | Issue No. | 38 |
| LM End | 0.94 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.806403° | 37.806403° |
| | | | | -121.397779° | -121.397779° |
| DWR ID | DWR_RD2089_01_f_2019_38 | | | | |
| Comment Code | | | | | |
| T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.96 | Rating ** | M | Issue No. | 39 |
| LM End | 0.96 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.806253° | 37.806253° |
| | | | | -121.398070° | -121.398070° |
| DWR ID | DWR_RD2089_01_f_2019_39 | | | | |
| Comment Code | | | | | |
| T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 1.00 | Rating ** | M | Issue No. | 40 |
| LM End | 1.00 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Trim / Thin Trees | | 37.806107° | 37.806107° | |
| | | | -121.398771° | -121.398771° | |
| DWR ID | DWR_RD2089_01_f_2019_40 | | | | |
| Comment Code | | | | | |
| T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 1.07 | Rating ** | M | Issue No. | 41 |
| LM End | 1.07 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Trim / Thin Trees | | 37.805861° | 37.805861° | |
| | | | -121.399976° | -121.399976° | |
| DWR ID | DWR_RD2089_01_f_2019_41 | | | | |
| Comment Code | | | | | |
| T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| LM Start | 1.16 | Rating ** | A/W | Issue No. | 30 |
|---|-------------------|--------------|-----|------------------------|--------------|
| LM End | 1.18 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.805600° | 37.805600° |
| | | | | -121.401700° | -121.401900° |
| DWR ID | LMA-417 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:511 | | | | | |
| Site Designation:LMA-417 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Critical | | | | | |
| Field Date:8/16/2017 | | | | | |
| Notes: Narrow levee with over steep slope | | | | | |

| LM Start | 1.16 | Rating ** | A/W | Issue No. | 30 (cont) |
|----------|------|--------------|-----|------------|-----------|
| LM End | 1.18 | Issue Type + | Ma | Location * | WS |

Photo 1 of 3 : LEVAL_FA_2019_511_4301.jpg



Photo 2 of 3 : LEVAL_FA_2019_511_4303.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------|--------------|-----|------------------------|---------------|
| LM Start | 1.16 | Rating ** | A/W | Issue No. | 30 (cont) |
| LM End | 1.18 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.805600 ° | 37.805600 ° |
| | | | | -121.401700 ° | -121.401900 ° |
| DWR ID | LMA-417 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. Site ID No: 511 Site Designation: LMA-417 Repair Type: Erosion Rating: Critical Field Date: 8/16/2017 Notes: Narrow levee with over steep slope | | | | | |

Photo 3 of 3 : LEVAL_FA_2019_511_4305.jpg



| | | | | | |
|---|--------------------|--------------|-----|------------------------|---------------|
| LM Start | 1.17 | Rating ** | A/W | Issue No. | 3 |
| LM End | 1.17 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.805523 ° | 37.805523 ° |
| | | | | -121.401718 ° | -121.401718 ° |
| DWR ID | RD2089U01RM29.1 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| Site ID: RD2089U01RM29.1 09/26/2019: No significant change observed. 09/13/2017: The erosion is at the upstream of a small tree, inside of a slight river bend. | | | | | |

Photo 1 of 2 : SJR2019_RD2089U01RM29.10_1.jpg



Looking at the erosion from levee top.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| LM Start | 1.17 | Rating ** | A/W | Issue No. | 3 (cont) |
|---|--------------------|--------------|-----|------------------------|--------------|
| LM End | 1.17 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.805523° | 37.805523° |
| | | | | -121.401718° | -121.401718° |
| DWR ID | RD2089U01RM29.1 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| Site ID: RD2089U01RM29.1 09/26/2019: No significant change observed. 09/13/2017: The erosion is at the upstream of a small tree, inside of a slight river bend. | | | | | |

Photo 2 of 2 : SJR2019_RD2089U01RM29.10_4.jpg



Close-up view of the erosion. Note the trees next to the erosion site.

| LM Start | 1.22 | Rating ** | M | Issue No. | 2 |
|---|--------------------|--------------|----|------------------------|--------------|
| LM End | 1.23 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.805580° | 37.805580° |
| | | | | -121.403010° | -121.403010° |
| DWR ID | RD2089U01RM29.04 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| Site ID: RD2089U01RM29.04 09/26/2019: No significant change observed. 09/13/2017: No significant change observed. More vegetation observed at the site. 09/16/2016: The river was not navigable near the site due to the dense water grass, so the site was visited by land survey. No significant change observed. 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: The erosion is around a tree at the levee toe. Dense vegetation is visible. | | | | | |

Photo 1 of 2 : SJR2019_RD2089U01RM29.04_2.JPG



Looking at the erosion from levee top.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|--------------------|--------------|----|------------------------|-----------------|
| LM Start | 1.22 | Rating ** | M | Issue No. | 2 (cont) |
| LM End | 1.23 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.805580° | 37.805580° |
| | | | | -121.403010° | -121.403010° |
| DWR ID | RD2089U01RM29.04 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| Site ID: RD2089U01RM29.04 09/26/2019: No significant change observed. 09/13/2017: No significant change observed. More vegetation observed at the site. 09/16/2016: The river was not navigable near the site due to the dense water grass, so the site was visited by land survey. No significant change observed. 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: The erosion is around a tree at the levee toe. Dense vegetation is visible. | | | | | |

Photo 2 of 2 : SJR2019_RD2089U01RM29.04_3.JPG



Close-up view of the erosion.

| | | | | | |
|--|---------------------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.22 | Rating ** | M | Issue No. | 43 |
| LM End | 1.22 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.805735° | 37.805735° |
| | | | | -121.402614° | -121.402614° |
| DWR ID | DWR_RD2089_01_s_2012_43 | | | | |
| Comment Code | | | | | |
| C3 : Add appropriate gravel or road base. Grade and compact. | | | | | |
| Inspector Comment | | | | | |

Photo 1 of 1 : FA_2019_RD2089_316_43_20190830_00033.jpg



View of depression in roadway. 11/10/2011

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 1.22 | Rating ** | M | Issue No. | 42 |
| LM End | 1.22 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Trim / Thin Trees | | 37.805766° | 37.805766° | |
| | | | -121.402748° | -121.402748° | |
| DWR ID | DWR_RD2089_01_f_2019_42 | | | | |
| Comment Code | | | | | |
| T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|---------------------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 1.23 | Rating ** | M | Issue No. | 44 |
| LM End | 1.23 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Crown Surface / Depressions / Rutting | | 37.805801° | 37.805801° | |
| | | | -121.402913° | -121.402913° | |
| DWR ID | DWR_RD2089_01_s_2012_44 | | | | |
| Comment Code | | | | | |
| C3 : Add appropriate gravel or road base. Grade and compact. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2019_RD2089_316_44_20190830_00034.jpg



View of roadway depression. 11/10/2011

| | | | | | |
|--|---------------------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 1.34 | Rating ** | M | Issue No. | 45 |
| LM End | 1.34 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Crown Surface / Depressions / Rutting | | 37.806128° | 37.806128° | |
| | | | -121.404890° | -121.404890° | |
| DWR ID | DWR_RD2089_01_s_2012_45 | | | | |
| Comment Code | | | | | |
| C3 : Add appropriate gravel or road base. Grade and compact. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2019_RD2089_316_45_20190830_00035.jpg



View of roadway depression. 11/10/2011

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.40 | Rating ** | M | Issue No. | 47 |
| LM End | 1.40 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.806268 ° | 37.806268 ° |
| | | | | -121.405874 ° | -121.405874 ° |
| DWR ID | DWR_RD2089_01_s_2012_47 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2019_RD2089_316_47_20190830_00036.jpg



View of active rodent burrow on landside slope. 11/10/2011

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.41 | Rating ** | M | Issue No. | 46 |
| LM End | 1.41 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.806299 ° | 37.806299 ° |
| | | | | -121.406010 ° | -121.406010 ° |
| DWR ID | DWR_RD2089_01_f_2019_46 | | | | |
| Comment Code | | | | | |
| T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|----------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.41 | Rating ** | M | Issue No. | 52 |
| LM End | 1.41 | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 37.806323° | 37.806323° |
| | | | | -121.406149° | -121.406149° |
| DWR ID | 24667 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| DS_ID:24667 FS_ID:53379 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/12/2018 Same as last inspection. Down grading to Non-Urgent due to abandonment and no visual threat to pipe or levee integrity (D. Sanoski - DWR UCIP).11/15/2016 Same as last inspection. (K. Fazel - UCIP)09/12/2013:- if abandoned, it needs proper abandonment. Pipe damaged and open on both ends. (P. Amatya - DWR) FIELD_STRUCT_DESC: *ABANDONED* 6-inch polyvinyl chloride (PVC) irrigation discharge pipe through the levee, 2 feet below the crown. Pipe was installed due to pump failure, but never removed. Field study discovered pipe. FS Date: 10/12/2018 5:16:00 PM | | | | | |

Photo 1 of 3 : UCIP_FA_2019_53379_36611.jpg



WS view: 6-inch pvc pipe on levee slope. Pipe end open and damaged.

| | | | | | |
|----------|------|--------------|----|------------|-----------|
| LM Start | 1.41 | Rating ** | M | Issue No. | 52 (cont) |
| LM End | 1.41 | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_53379_36610.jpg



WS view: inside view of pvc pipe. Sediments found inside the pipe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|----------------------------|--------------|----|------------------------|------------------|
| LM Start | 1.41 | Rating ** | M | Issue No. | 52 (cont) |
| LM End | 1.41 | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 37.806323° | 37.806323° |
| | | | | -121.406149° | -121.406149° |
| DWR ID | 24667 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| DS_ID:24667 FS_ID:53379 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/12/2018 Same as last inspection. Down grading to Non-Urgent due to abandonment and no visual threat to pipe or levee integrity (D. Sanoski - DWR UCIP).11/15/2016 Same as last inspection. (K. Fazel - UCIP)09/12/2013:- if abandoned, it needs proper abandonment. Pipe damaged and open on both ends. (P. Amatya - DWR) FIELD_STRUCT_DESC: *ABANDONED* 6-inch polyvinyl chloride (PVC) irrigation discharge pipe through the levee, 2 feet below the crown. Pipe was installed due to pump failure, but never removed. Field study discovered pipe. FS Date: 10/12/2018 5:16:00 PM | | | | | |

Photo 3 of 3 : UCIP_FA_2019_53379_36609.jpg



LS view: 6-inch pvc pipe on levee slope. Pipe end open.

| | | | | | |
|--|-----------------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.41 | Rating ** | M | Issue No. | 53 |
| LM End | 1.41 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 37.806323° | 37.806323° |
| | | | | -121.406155° | -121.406155° |
| DWR ID | 23045 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| DS_ID:23045 FS_ID:21585 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - siphon breaker needs repair. FIELD_STRUCT_DESC: 10-inch steel drainage discharge pipe through the levee, 2.4 feet below the crown. Pump in a drainage ditch on the landside (LS). Siphon breaker on the waterside (WS) shoulder. [Additional Reference(s): DWR Levee Log, 1991]. FS Date: 9/12/2013 | | | | | |

Photo 1 of 3 : UCIP_FA_2019_21585_36624.jpg



WS view: exposed steel pipe on levee slope. A pvc pipe on left.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| LM Start | 1.41 | Rating ** | M | Issue No. | 53 (cont) |
|--|-----------------------------------|--------------|----|------------------------|--------------|
| LM End | 1.41 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 37.806323° | 37.806323° |
| | | | | -121.406155° | -121.406155° |
| DWR ID | 23045 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| DS_ID:23045 FS_ID:21585 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - siphon breaker needs repair. FIELD_STRUCT_DESC: 10-inch steel drainage discharge pipe through the levee, 2.4 feet below the crown. Pump in a drainage ditch on the landside (LS). Siphon breaker on the waterside (WS) shoulder. [Additional Reference(s): DWR Levee Log, 1991]. FS Date: 9/12/2013 | | | | | |

Photo 2 of 3 : UCIP_FA_2019_21585_36623.jpg



WS view: exposed steel pipe with siphon breaker. Looks siphon breaker needs repair.

| LM Start | 1.41 | Rating ** | M | Issue No. | 53 (cont) |
|----------|------|--------------|----|------------|-----------|
| LM End | 1.41 | Issue Type + | Ma | Location * | |

Photo 3 of 3 : UCIP_FA_2019_21585_36622.jpg



LS view: exposed steel pipe on levee slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 1.43 | Rating ** | M | Issue No. | 48 |
| LM End | 1.43 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Trim / Thin Trees | | 37.806375° | 37.806375° | |
| | | | -121.406516° | -121.406516° | |
| DWR ID | DWR_RD2089_01_f_2019_48 | | | | |
| Comment Code | | | | | |
| T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 1.44 | Rating ** | M | Issue No. | 49 |
| LM End | 1.44 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Animal Control | | 37.806383° | 37.806383° | |
| | | | -121.406599° | -121.406599° | |
| DWR ID | DWR_RD2089_01_s_2012_49 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2019_RD2089_316_49_20190830_00037.jpg



View of deep burrow on waterside. 11/10/2011

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|--|----------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 1.48 | Rating ** | M | Issue No. | 54 |
| LM End | 1.48 | Issue Type + | En | Location * | |
| Category | Supplemental | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | DRAFT DWR UCIP Field Study | | 37.806520° | 37.806520° | |
| | | | -121.407392° | -121.407392° | |
| DWR ID | 23046 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| DS_ID:23046 FS_ID:53182 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/12/2018 Same as last inspection; downgrading to Non-Urgent due to no visual pipe or levee threat (D. Sanoski - DWR UCIP). 11/15/2016 Pipe found on WS only. Same as last inspection. (K. Fazel - UCIP)06/25/2015 Crossing appears abandoned; if so, should be done so properly. Pipe open on WS. Holes and cracks visible on pipe. (K. Fazel - UCIP) FIELD_STRUCT_DESC: *ABANDONED* 12-inch reinforced concrete pipe of an unknown purpose possibly through the levee, approximately 8 feet below the crown. Smaller steel pipe sleeved through the 12-inch pipe with annular space grouted. Pipe does not cross channel and may not cross levee. May be related to the gas line crossing with DS ID 25121. Discovered from boat on 2015 DWR Erosion Survey. FS Date: 10/12/2018 5:22:43 PM | | | | | |

Photo 1 of 3 : UCIP_FA_2019_53182_74506.jpg



View up WS slope from water. Pipe does not cross channel.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 1.48 | Rating ** | M | Issue No. | 54 (cont) |
| LM End | 1.48 | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_53182_74508.jpg



Gasline marker (for crossing with DS ID 25121) appr. 100 ft west of crossing.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-----------------|
| Unit No. 01 Old River | Right | 1.51 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|------------------|
| LM Start | 1.48 | Rating ** | M | Issue No. | 54 (cont) |
| LM End | 1.48 | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 37.806520° | 37.806520° |
| | | | | -121.407392° | -121.407392° |
| DWR ID | 23046 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| DS_ID:23046 FS_ID:53182 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/12/2018 Same as last inspection; downgrading to Non-Urgent due to no visual pipe or levee threat (D. Sanoski - DWR UCIP). 11/15/2016 Pipe found on WS only. Same as last inspection. (K. Fazel - UCIP)06/25/2015 Crossing appears abandoned; if so, should be done so properly. Pipe open on WS. Holes and cracks visible on pipe. (K. Fazel - UCIP) FIELD_STRUCT_DESC: *ABANDONED* 12-inch reinforced concrete pipe of an unknown purpose possibly through the levee, approximately 8 feet below the crown. Smaller steel pipe sleeved through the 12-inch pipe with annular space grouted. Pipe does not cross channel and may not cross levee. May be related to the gas line crossing with DS ID 25121. Discovered from boat on 2015 DWR Erosion Survey. FS Date: 10/12/2018 5:22:43 PM | | | | | |

Photo 3 of 3 : UCIP_FA_2019_53182_76207.jpg



WS view of pipe

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

Unit Cover Sheet

Fall 2019 Levee Inspection Results

Reclamation District No. 2089 Stark

| Waterway | | Bank | Unit Miles |
|--|-------------------------|---------------------------|---|
| Unit No. 02 Salmon Slough | | Right | 1.35 |
| | Spring (March - May) | Summer (June - August) | (September - November) Fall Winter (December - February) |
| Unit Maintenance Rating (Fall Only) | | | U |
| Date of Inspection | 4/4/2019 - 4/4/2019 | | 11/20/2019 - 11/20/2019 |
| DWR Inspector | Alberto De Leon | | Alberto De Leon |
| Accompanied By | Wade Wylie DWR | | |

Summer & Winter Inspections

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

DWR must be informed on the:

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

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|--|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 0.00 | Rating ** | U | Issue No. | 60 |
| LM End | 1.34 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Vegetation | | 37.806636° | 37.819512° | |
| | | | -121.407840° | -121.419722° | |
| DWR ID | DWR_RD2089_02_f_2019_60 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_60_20191121_00071.jpg



View of vegetation on landside slope. Fall 2019

| | | | | | |
|--|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 0.00 | Rating ** | U | Issue No. | 58 |
| LM End | 1.34 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Vegetation | | 37.806636° | 37.819608° | |
| | | | -121.407840° | -121.419609° | |
| DWR ID | DWR_RD2089_02_s_2017_58 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : FA_2019_RD2089_317_58_20191121_00072.jpg



View of vegetation on waterside slope. Fall 2019

| | | | | | |
|----------|-------------|--------------|-----------|------------|------------------|
| LM Start | 0.00 | Rating ** | U | Issue No. | 58 (cont) |
| LM End | 1.34 | Issue Type + | Ma | Location * | WS |

Photo 2 of 2 : FA_2019_RD2089_317_58_20190830_00067.jpg



Typical view of vegetation on waterside slope. (Spring 2019)

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|--|-------------------|--------------|----|------------------------|------------------|
| LM Start | 0.20 | Rating ** | M | Issue No. | 46 (cont) |
| LM End | 0.21 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.809100 ° | 37.809200 ° |
| | | | | -121.409800 ° | -121.409900 ° |
| DWR ID | LMA-415 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. Site ID No: 509 Site Designation: LMA-415 Repair Type: Erosion Rating: Area of Concern Field Date: 8/16/2017 Notes: Displaced riprap at toe. | | | | | |

Photo 3 of 3 : LEVAL_FA_2019_509_4317.jpg



| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.21 | Rating ** | M | Issue No. | 49 |
| LM End | 0.21 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.809148 ° | 37.809148 ° |
| | | | | -121.409897 ° | -121.409897 ° |
| DWR ID | DWR_RD2089_02_s_2018_49 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_49_20190830_00052.jpg



View of the multiple rodent burrows on the landside levee hinge and slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.26 | Rating ** | M | Issue No. | 24 |
| LM End | 0.26 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.809717° | 37.809717° |
| | | | | -121.410511° | -121.410511° |
| DWR ID | DWR_RD2089_02_s_2012_24 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_24_20190830_00026.jpg



View of active burrows, ground squirrel sighted in area. 05/24/2011

| | | | | | |
|--|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.28 | Rating ** | U | Issue No. | 52 |
| LM End | 0.30 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.809899° | 37.809899° |
| | | | | -121.410888° | -121.411298° |
| DWR ID | DWR_RD2089_02_f_2013_52 | | | | |
| Comment Code | | | | | |
| PR : Prunings | | | | | |
| Inspector Comment | | | | | |
| Remove prunings and other debris from the levee toe. | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_52_20190830_00057.jpg



View of the tree branches on the landside levee toe obstructing access.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.28 | Rating ** | U | Issue No. | 51 |
| LM End | 0.28 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.809899° | 37.809899° |
| | | | | -121.410889° | -121.410889° |
| DWR ID | DWR_RD2089_02_f_2013_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_2019_RD2089_317_51_20190830_00056.jpg



View of the rodent burrow on the landside levee toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 0.30 | Rating ** | U | Issue No. | 53 |
| LM End | 0.31 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Animal Control | | 37.809977° | 37.810022° | |
| | | | -121.411189° | -121.411387° | |
| DWR ID | DWR_RD2089_02_f_2013_53 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 3 : FA_2019_RD2089_317_53_20190830_00058.jpg



View of the multiple rodent burrows on the landside levee slope.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.30 | Rating ** | U | Issue No. | 53 (cont) |
| LM End | 0.31 | Issue Type + | Ma | Location * | LS |

Photo 2 of 3 : FA_2019_RD2089_317_53_20190830_00059.jpg



View of the rodent burrow on the landside levee slope.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.30 | Rating ** | U | Issue No. | 53 (cont) |
| LM End | 0.31 | Issue Type + | Ma | Location * | LS |

Photo 3 of 3 : FA_2019_RD2089_317_53_20190830_00060.jpg



Another view of the multiple rodent burrows on the landside levee slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|--|-------------------|--------------|------------------------|--------------|-----------|
| LM Start | 0.32 | Rating ** | A/W | Issue No. | 47 |
| LM End | 0.57 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | 2017 Storm Damage | | 37.810020° | 37.811810° | |
| | | | -121.411550° | -121.415390° | |
| DWR ID | 335-103 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description: | | | | | |
| Site ID No:109 | | | | | |
| Site Designation:335-103 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:6/7/2017 | | | | | |
| Notes: vegetation too dense for evaluation | | | | | |

Photo 1 of 3 : LEVAL_FA_2019_109_1297.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 0.32 | Rating ** | A/W | Issue No. | 47 (cont) |
| LM End | 0.57 | Issue Type + | Ma | Location * | WS |

Photo 2 of 3 : LEVAL_FA_2019_109_1298.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|--|-------------------|--------------|------------------------|--------------|------------------|
| LM Start | 0.32 | Rating ** | A/W | Issue No. | 47 (cont) |
| LM End | 0.57 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | 2017 Storm Damage | | 37.810020° | 37.811810° | |
| | | | -121.411550° | -121.415390° | |
| DWR ID | 335-103 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description: | | | | | |
| Site ID No:109 | | | | | |
| Site Designation:335-103 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:6/7/2017 | | | | | |
| Notes: vegetation too dense for evaluation | | | | | |

Photo 3 of 3 : LEVAL_FA_2019_109_1300.jpg



| | | | | | |
|---|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 0.34 | Rating ** | M | Issue No. | 55 |
| LM End | 0.34 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Trim / Thin Trees | | 37.810052° | 37.810052° | |
| | | | -121.411966° | -121.411966° | |
| DWR ID | DWR_RD2089_02_s_2017_55 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_55_20190830_00062.jpg



View of the overgrown tree on the levee slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|-------------------------------------|------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.35 | Rating ** | M | Issue No. | 2 |
| LM End | 0.35 | Issue Type + | En | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.810106° | 37.810106° |
| | | | | -121.412133° | -121.412133° |
| DWR ID | DWR_RD2089_02_s_2012_2 | | | | |
| Comment Code | | | | | |
| FE : Fence | | | | | |
| Inspector Comment | | | | | |
| There is a gate across levee crown. | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_2_20190830_00004.jpg



View of gate across levee crown.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.36 | Rating ** | M | Issue No. | 26 |
| LM End | 0.36 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.810125° | 37.810125° |
| | | | | -121.412317° | -121.412317° |
| DWR ID | DWR_RD2089_02_s_2012_26 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_26_20190830_00027.jpg



View of active rodent burrow. 05/24/2011

| | | | | | |
|--|---------------------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.39 | Rating ** | U | Issue No. | 7 |
| LM End | 0.39 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.810140° | 37.810140° |
| | | | | -121.412906° | -121.412906° |
| DWR ID | DWR_RD2089_02_f_2018_7 | | | | |
| Comment Code | | | | | |
| C2 : Repair depressions or ruts in the crown or slope. | | | | | |
| Inspector Comment | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_7_20190830_00007.jpg



View of depression greater than six inches on levee crown. (Fall 2018)

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|--|-------------------|--------------|-----|------------------------|------------------|
| LM Start | 0.39 | Rating ** | A/W | Issue No. | 50 (cont) |
| LM End | 0.41 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.810150 ° | 37.810270 ° |
| | | | | -121.412930 ° | -121.413240 ° |
| DWR ID | LMA-414 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No: 508 | | | | | |
| Site Designation: LMA-414 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating: Serious | | | | | |
| Field Date: 8/16/2017 | | | | | |
| Notes: Large erosion around tree with a 12' vertical cut. | | | | | |

Photo 3 of 3 : LEVAL_FA_2019_508_4325.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|----------|--------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.40 | Rating ** | A/W | Issue No. | 1 |
| LM End | 0.41 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.809960 ° | 37.809960 ° |
| | | | | -121.413200 ° | -121.413200 ° |
| DWR ID | RD2089U02RM28.35 | | | | |

Comment Code

Inspector Comment

Site ID: RD2089U02RM28.35
 09/26/2019: No significant change observed.
 09/13/2017: No significant change observed.
 09/26/2016: The erosion site was visited by land survey instead of water surface survey due to the dense water grass in the river this year. No significant change observed.
 06/25/2015: No significant change observed.
 07/02/2014: No significant change observed.
 08/13/2013: No significant change observed.
 08/07/2012: The site has been visited by boat survey. No significant change observed.
 08/23/2011: No significant change observed on site.
 09/07/2010: Site consists of a jutting rip rap that has created an eddy, scouring the levee slope. Most sections of the toe and lower slope are lined with rip rap. However, the rip rap is sloughing on the mid slope and at the toe, exposing the underlying soils and tree roots. The remaining revetment is no longer adequately protecting the slope. There are 3 Sycamore trees at the toe with exposed tree roots.
 08/05/2010: Recommended for repair, per CLRO.
 09/28/2009: Pocket erosion on lower slope just above the toe rip rap; protruding rip rap upstream is creating an eddy, scouring the levee slope; Site # is the same as RM28.40,LM0.30; previously rated "U"; pictures will be made available during the next survey.
 11/05/2008: Cut into levee profile; riprap slide; rodent holes; pictures do not match GPS and current condition.

| | | | | | |
|----------|-------------|--------------|-----|------------|-----------------|
| LM Start | 0.40 | Rating ** | A/W | Issue No. | 1 (cont) |
| LM End | 0.41 | Issue Type + | Ma | Location * | |

Photo 1 of 3 : SJR2019_RD2089U02RM28.35_1.jpg



Looking at the erosion from levee top.

Photo 2 of 3 : SJR2019_RD2089U02RM28.35_4.jpg



Close-up view of the erosion.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|--------------------|--------------|-----|------------------------|-----------------|
| LM Start | 0.40 | Rating ** | A/W | Issue No. | 1 (cont) |
| LM End | 0.41 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.809960 ° | 37.809960 ° |
| | | | | -121.413200 ° | -121.413200 ° |
| DWR ID | RD2089U02RM28.35 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| <p>Site ID: RD2089U02RM28.35 09/26/2019: No significant change observed. 09/13/2017: No significant change observed. 09/26/2016: The erosion site was visited by land survey instead of water surface survey due to the dense water grass in the river this year. No significant change observed. 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed. 08/23/2011: No significant change observed on site. 09/07/2010: Site consists of a jutting rip rap that has created an eddy, scouring the levee slope. Most sections of the toe and lower slope are lined with rip rap. However, the rip rap is sloughing on the mid slope and at the toe, exposing the underlying soils and tree roots. The remaining revetment is no longer adequately protecting the slope. There are 3 Sycamore trees at the toe with exposed tree roots. 08/05/2010: Recommended for repair, per CLRO. 09/28/2009: Pocket erosion on lower slope just above the toe rip rap; protruding rip rap upstream is creating an eddy, scouring the levee slope; Site # is the same as RM28.40,LM0.30; previously rated "U"; pictures will be made available during the next survey. 11/05/2008: Cut into levee profile; riprap slide; rodent holes; pictures do not match GPS and current condition.</p> | | | | | |

Photo 3 of 3 : SJR2019_RD2089U02RM28.35_5.jpg



Close-up view of the erosion.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.43 | Rating ** | M | Issue No. | 61 |
| LM End | 0.43 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.810378 ° | 37.810378 ° |
| | | | | -121.413415 ° | -121.413415 ° |
| DWR ID | DWR_RD2089_02_f_2019_61 | | | | |
| Comment Code | | | | | |
| <p>T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.</p> | | | | | |
| Inspector Comment | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.44 | Rating ** | M | Issue No. | 27 |
| LM End | 0.44 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.810490° | 37.810490° |
| | | | | -121.413638° | -121.413638° |
| DWR ID | DWR_RD2089_02_s_2012_27 | | | | |
| Comment Code | | | | | |
| BU : Building | | | | | |
| Inspector Comment | | | | | |
| There is a portable toilet on the bank at the water's edge. | | | | | |

Photo 1 of 3 : FA_2019_RD2089_317_27_20190830_00028.jpg



View of portable toilet is in the shadows in the center of the photo at the water's edge. 05/24/2011

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.44 | Rating ** | M | Issue No. | 27 (cont) |
| LM End | 0.44 | Issue Type + | En | Location * | WS |

Photo 2 of 3 : FA_2019_RD2089_317_27_20190830_00029.jpg



Close-up view of portable toilet at water's edge. (Fall 2018)

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.44 | Rating ** | M | Issue No. | 27 (cont) |
| LM End | 0.44 | Issue Type + | En | Location * | WS |

Photo 3 of 3 : FA_2019_RD2089_317_27_20190830_00030.jpg



View of picnic table and other items on waterward berm. (Fall 2018)

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.44 | Rating ** | M | Issue No. | 34 |
| LM End | 0.44 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.810509 ° | 37.810509 ° |
| | | | | -121.413624 ° | -121.413624 ° |
| DWR ID | DWR_RD2089_02_s_2019_34 | | | | |
| Comment Code | | | | | |
| PR : Prunings | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.46 | Rating ** | M | Issue No. | 13 |
| LM End | 0.46 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.810691 ° | 37.810691 ° |
| | | | | -121.414014 ° | -121.414014 ° |
| DWR ID | DWR_RD2089_02_s_2012_13 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_13_20190830_00015.jpg



View of two large burrows on crown, need to be filled. 11/10/2011

| | | | | | |
|--|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.47 | Rating ** | M | Issue No. | 10 |
| LM End | 0.47 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.810714 ° | 37.810714 ° |
| | | | | -121.414057 ° | -121.414057 ° |
| DWR ID | DWR_RD2089_02_s_2012_10 | | | | |
| Comment Code | | | | | |
| C3 : Add appropriate gravel or road base. Grade and compact. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_10_20190830_00011.jpg



Depression in crown needs to be filled. 11/10/2011

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 0.50 | Rating ** | U | Issue No. | 54 |
| LM End | 0.50 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Animal Control | | 37.810989° | 37.810989° | |
| | | | -121.414517° | -121.414517° | |
| DWR ID | DWR_RD2089_02_f_2013_54 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_54_20190830_00061.jpg



View of the rodent burrow on the landside levee slope.

| | | | | | |
|--|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 0.52 | Rating ** | M | Issue No. | 14 |
| LM End | 0.52 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Erosion / Bank Caving | | 37.811150° | 37.811150° | |
| | | | -121.414748° | -121.414748° | |
| DWR ID | DWR_RD2089_02_s_2012_14 | | | | |
| Comment Code | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | |
| Inspector Comment | | | | | |
| Repair damage to slope caused by livestock. | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_14_20190830_00016.jpg



View of the approximately 1' scarp that has been created by livestock travel. 11/10/2011

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| LM Start | 0.54 | Rating ** | M | Issue No. | 62 (cont) |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM End | 0.54 | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 37.811369 ° | 37.811369 ° |
| | | | | -121.415050 ° | -121.415050 ° |
| DWR ID | 23047 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| DS_ID:23047 FS_ID:21676 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - air relief valve on waterside. Needs repair.- concrete standpipe on landside. FIELD_STRUCT_DESC: 14-inch irrigation discharge pipe of an unknown material through the levee, 8 feet below the crown. Pump on a pile structure in the stream. Timber walkway to the pump. Air relief valve on the waterside (WS) slope. Concrete distribution standpipe on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1991. USACE San Joaquin O&M Manual 8, 1968, (HLM 0.55)]. FS Date: 9/12/2013 | | | | | |

Photo 3 of 3 : UCIP_FA_2019_21676_36859.jpg



WS view: pipe (left) and steel walkway to pump on piling structure in the channel.

| LM Start | 0.54 | Rating ** | M | Issue No. | 35 |
|--|---------------------------------------|--------------|----|------------------------|---------------|
| LM End | 0.54 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.811382 ° | 37.811382 ° |
| | | | | -121.415054 ° | -121.415054 ° |
| DWR ID | DWR_RD2089_02_f_2015_35 | | | | |
| Comment Code | | | | | |
| C2 : Repair depressions or ruts in the crown or slope. | | | | | |
| Inspector Comment | | | | | |

Photo 1 of 4 : FA_2019_RD2089_317_35_20190830_00034.jpg



View of the levee crown depression 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 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|--|---------------------------------------|--------------|------------------------|--------------|------------------|
| LM Start | 0.54 | Rating ** | M | Issue No. | 35 (cont) |
| LM End | 0.54 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Crown Surface / Depressions / Rutting | | 37.811382° | 37.811382° | |
| | | | -121.415054° | -121.415054° | |
| DWR ID | DWR_RD2089_02_f_2015_35 | | | | |
| Comment Code | | | | | |
| C2 : Repair depressions or ruts in the crown or slope. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 2 of 4 : FA_2019_RD2089_317_35_20190830_00035.jpg



View of the levee crown depression looking downstream.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.54 | Rating ** | M | Issue No. | 35 (cont) |
| LM End | 0.54 | Issue Type + | Ma | Location * | CR |

Photo 3 of 4 : FA_2019_RD2089_317_35_20190830_00036.jpg



View of the levee crown depression looking to the landside.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.54 | Rating ** | M | Issue No. | 35 (cont) |
| LM End | 0.54 | Issue Type + | Ma | Location * | CR |

Photo 4 of 4 : FA_2019_RD2089_317_35_20190830_00037.jpg



View of the levee crown depression looking to the waterside.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.83 | Rating ** | M | Issue No. | 21 |
| LM End | 0.83 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.814773 ° | 37.814773 ° |
| | | | | -121.414555 ° | -121.414555 ° |
| DWR ID | DWR_RD2089_02_s_2012_21 | | | | |
| Comment Code | | | | | |
| S2 : Repair the levee slope damaged by foot traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| Livestock have worn paths into levee slope. | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.83 | Rating ** | M | Issue No. | 38 |
| LM End | 0.83 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.814844 ° | 37.814844 ° |
| | | | | -121.414566 ° | -121.414566 ° |
| DWR ID | DWR_RD2089_02_s_2012_38 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |

No Photos

| | | | | | |
|-------------------------------------|------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.84 | Rating ** | M | Issue No. | 9 |
| LM End | 0.84 | Issue Type + | En | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.814881 ° | 37.814881 ° |
| | | | | -121.414676 ° | -121.414676 ° |
| DWR ID | DWR_RD2089_02_s_2012_9 | | | | |
| Comment Code | | | | | |
| FE : Fence | | | | | |
| Inspector Comment | | | | | |
| There is a gate across levee crown. | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_9_20190830_00010.jpg



View of the fence gate across levee crown.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.84 | Rating ** | M | Issue No. | 25 |
| LM End | 0.84 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.814906° | 37.814906° |
| | | | | -121.414745° | -121.414745° |
| DWR ID | DWR_RD2089_02_s_2012_25 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.84 | Rating ** | M | Issue No. | 42 |
| LM End | 0.84 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.814931° | 37.814931° |
| | | | | -121.414756° | -121.414756° |
| DWR ID | DWR_RD2089_02_f_2016_42 | | | | |
| Comment Code | | | | | |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| Ramp is encroaching into the levee slope. Add appropriate material to stabilize the slope. | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_42_20190830_00044.jpg



View of the ramp on the landside levee slope.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.85 | Rating ** | U | Issue No. | 40 |
| LM End | 0.90 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.814997° | 37.814970° |
| | | | | -121.414774° | -121.415767° |
| DWR ID | DWR_RD2089_02_s_2012_40 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 3 : FA_2019_RD2089_317_40_20190830_00040.jpg



View of deep vertical burrow in ramp on landside of levee. 05/24/2011

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|------------------|
| LM Start | 0.85 | Rating ** | U | Issue No. | 40 (cont) |
| LM End | 0.90 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.814997° | 37.814970° |
| | | | | -121.414774° | -121.415767° |
| DWR ID | DWR_RD2089_02_s_2012_40 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 2 of 3 : FA_2019_RD2089_317_40_20190830_00041.jpg



View of deep vertical burrow in levee crown. 05/24/2011

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.85 | Rating ** | U | Issue No. | 40 (cont) |
| LM End | 0.90 | Issue Type + | Ma | Location * | LS |

Photo 3 of 3 : FA_2019_RD2089_317_40_20190830_00042.jpg



View of the multiple rodent holes on the landside levee slope.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.86 | Rating ** | U | Issue No. | 36 |
| LM End | 1.34 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.815032° | 37.819556° |
| | | | | -121.414982° | -121.419621° |
| DWR ID | DWR_RD2089_02_s_2019_36 | | | | |
| Comment Code | | | | | |
| V9 : Keep the crown roadway free of vegetation. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_36_20190830_00038.jpg



View of vegetation on levee crown. (Spring 2019)

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------|--------------|-----|------------------------|--------------|
| LM Start | 0.91 | Rating ** | A/W | Issue No. | 59 |
| LM End | 0.93 | Issue Type + | Ob | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.814890° | 37.814890° |
| | | | | -121.415880° | -121.416330° |
| DWR ID | 335-3 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments Description: Site ID No:110 Site Designation:335-3 Repair Type: Seepage Rating: Field Date: Notes: | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 0.91 | Rating ** | M | Issue No. | 22 |
| LM End | 0.91 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.814903° | 37.814903° |
| | | | | -121.415887° | -121.415887° |
| DWR ID | DWR_RD2089_02_s_2015_22 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|--|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 0.94 | Rating ** | M | Issue No. | 41 |
| LM End | 0.94 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Encroachments | | 37.814940° | 37.814940° | |
| | | | -121.416499° | -121.416499° | |
| DWR ID | DWR_RD2089_02_s_2012_41 | | | | |
| Comment Code | | | | | |
| PI : Pipe | | | | | |
| Inspector Comment | | | | | |
| Debris/CMP are on levee slope and needs to be removed. | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_41_20190830_00043.jpg



View of old CMP left on waterside levee slope, needs to be removed.
05/24/2011

| | | | | | |
|---|------------------------|--------------|------------------------|--------------|----------|
| LM Start | 0.95 | Rating ** | U | Issue No. | 5 |
| LM End | 0.95 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Animal Control | | 37.814915° | 37.814915° | |
| | | | -121.416606° | -121.416606° | |
| DWR ID | DWR_RD2089_02_s_2014_5 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_5_20190830_00005.jpg



View of the rodent holes on the landside levee slope.

| | | | | | |
|---|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 1.00 | Rating ** | U | Issue No. | 12 |
| LM End | 1.00 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Animal Control | | 37.815182° | 37.815182° | |
| | | | -121.417439° | -121.417439° | |
| DWR ID | DWR_RD2089_02_f_2014_12 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |

Photo 1 of 2 : FA_2019_RD2089_317_12_20190830_00013.jpg



View of several large rodent holes on the levee crown.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|------------------|
| LM Start | 1.00 | Rating ** | U | Issue No. | 12 (cont) |
| LM End | 1.00 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.815182° | 37.815182° |
| | | | | -121.417439° | -121.417439° |
| DWR ID | DWR_RD2089_02_f_2014_12 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 2 of 2 : FA_2019_RD2089_317_12_20190830_00014.jpg



View of several rodent burrows on landside levee hinge and crown.

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.05 | Rating ** | N | Issue No. | 29 |
| LM End | 1.05 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.815629° | 37.815629° |
| | | | | -121.418133° | -121.418133° |
| DWR ID | DWR_RD2089_02_s_2012_29 | | | | |
| Comment Code | | | | | |
| T5 : Tree stumps. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_29_20190830_00032.jpg



View of tree stump left after vegetation and tree removal.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.08 | Rating ** | M | Issue No. | 45 |
| LM End | 1.08 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.815985° | 37.815985° |
| | | | | -121.418486° | -121.418486° |
| DWR ID | DWR_RD2089_02_f_2019_45 | | | | |
| Comment Code | | | | | |
| T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 1.08 | Rating ** | M | Issue No. | 17 |
| LM End | 1.08 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Encroachments | | 37.816025° | 37.816025° | |
| | | | -121.418544° | -121.418544° | |
| DWR ID | DWR_RD2089_02_s_2012_17 | | | | |
| Comment Code | | | | | |
| DE : Debris | | | | | |
| Inspector Comment | | | | | |
| Water tanks disposed of on levee are obstructive. | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_17_20190830_00019.jpg



View of water tanks disposed on waterside slope.

| | | | | | |
|---|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 1.12 | Rating ** | M | Issue No. | 30 |
| LM End | 1.12 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Vegetation | | 37.816514° | 37.816514° | |
| | | | -121.418948° | -121.418948° | |
| DWR ID | DWR_RD2089_02_s_2012_30 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |

No Photos

| | | | | | |
|---|------------------------|--------------|------------------------|--------------|----------|
| LM Start | 1.18 | Rating ** | M | Issue No. | 6 |
| LM End | 1.18 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Animal Control | | 37.817271° | 37.817271° | |
| | | | -121.419380° | -121.419380° | |
| DWR ID | DWR_RD2089_02_s_2014_6 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_6_20190830_00006.jpg



View of the large rodent hole on the landside levee slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.24 | Rating ** | U | Issue No. | 31 |
| LM End | 1.24 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.818051° | 37.818051° |
| | | | | -121.419743° | -121.419743° |
| DWR ID | DWR_RD2089_02_s_2012_31 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.24 | Rating ** | M | Issue No. | 37 |
| LM End | 1.24 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.818097° | 37.818097° |
| | | | | -121.419709° | -121.419709° |
| DWR ID | DWR_RD2089_02_s_2016_37 | | | | |
| Comment Code | | | | | |
| PR : Prunings | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_37_20190830_00039.jpg



View of the prunings on the landside levee slope.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.24 | Rating ** | U | Issue No. | 28 |
| LM End | 1.24 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.818112° | 37.818112° |
| | | | | -121.419720° | -121.419720° |
| DWR ID | DWR_RD2089_02_f_2016_28 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_28_20190830_00031.jpg



View of the rodent burrow in the landside levee slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|--|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 1.25 | Rating ** | U | Issue No. | 23 |
| LM End | 1.31 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Encroachments | | 37.818277° | 37.819040° | |
| | | | -121.419725° | -121.419760° | |
| DWR ID | DWR_RD2089_02_s_2012_23 | | | | |
| Comment Code | | | | | |
| BU : Building | | | | | |
| Inspector Comment | | | | | |
| Buildings and equipment encroach within 10-ft of landside toe. | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_23_20190830_00025.jpg



View of buildings and patio decks within 10-ft of the levee slope. Fall 2009

| | | | | | |
|--|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 1.26 | Rating ** | U | Issue No. | 33 |
| LM End | 1.26 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Trim / Thin Trees | | 37.818408° | 37.818408° | |
| | | | -121.419738° | -121.419738° | |
| DWR ID | DWR_RD2089_02_f_2018_33 | | | | |
| Comment Code | | | | | |
| T4 : Trim trees over roadway to at least 12 feet above ground level. | | | | | |
| Inspector Comment | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_33_20190830_00033.jpg



Looking west at trees overhanging crown of levee. (Fall 2018)

| | | | | | |
|---------------------------------|-------------------------|--------------|------------------------|--------------|-----------|
| LM Start | 1.27 | Rating ** | M | Issue No. | 57 |
| LM End | 1.27 | Issue Type + | En | Location * | CR |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Vegetation | | 37.818499° | 37.818499° | |
| | | | -121.419754° | -121.419754° | |
| DWR ID | DWR_RD2089_02_f_2013_57 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| Remove cactus from levee crown. | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_57_20190830_00066.jpg



View of the cactus on the crown at the landside levee shoulder.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.27 | Rating ** | M | Issue No. | 44 |
| LM End | 1.27 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.818574 ° | 37.818574 ° |
| | | | | -121.419735 ° | -121.419735 ° |
| DWR ID | DWR_RD2089_02_f_2019_44 | | | | |
| Comment Code | | | | | |
| T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.29 | Rating ** | U | Issue No. | 19 |
| LM End | 1.29 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.818740 ° | 37.818740 ° |
| | | | | -121.419759 ° | -121.419759 ° |
| DWR ID | DWR_RD2089_02_f_2016_19 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_19_20190830_00021.jpg



View of the rodent burrow in the landside levee slope.

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 1.29 | Rating ** | A/W | Issue No. | 32 |
| LM End | 1.29 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.818829 ° | 37.818829 ° |
| | | | | -121.419776 ° | -121.419776 ° |
| DWR ID | DWR_RD2089_02_s_2012_32 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.29 | Rating ** | N | Issue No. | 18 |
| LM End | 1.29 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.818843° | 37.818843° |
| | | | | -121.419762° | -121.419762° |
| DWR ID | DWR_RD2089_02_f_2016_18 | | | | |
| Comment Code | | | | | |
| T5 : Tree stumps. | | | | | |
| Inspector Comment | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_18_20190830_00020.jpg



View of the tree stump from the levee crown.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.30 | Rating ** | U | Issue No. | 16 |
| LM End | 1.30 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.818987° | 37.818987° |
| | | | | -121.419767° | -121.419767° |
| DWR ID | DWR_RD2089_02_s_2015_16 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_16_20190830_00018.jpg



View of the rodent burrow in the landside levee slope.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.31 | Rating ** | M | Issue No. | 43 |
| LM End | 1.31 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.819036° | 37.819036° |
| | | | | -121.419763° | -121.419763° |
| DWR ID | DWR_RD2089_02_f_2019_43 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2089 Stark

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Salmon Slough | Right | 1.35 | 11/20/2019 11/20/2019 | Alberto De Leon |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 1.33 | Rating ** | U | Issue No. | 11 |
| LM End | 1.33 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.819371° | 37.819371° |
| | | | | -121.419774° | -121.419774° |
| DWR ID | DWR_RD2089_02_f_2014_11 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2019_RD2089_317_11_20190830_00012.jpg



View of the multiple rodent burrows on the landside levee 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 |
|--|---|---|