**Flood Control Project Maintenance**
**Levee Inspections**

# Fall 2019 Levee Maintenance Deficiency Summary Report

## Overall LMA & Unit Ratings, including USACE Erosion Survey

### *Sacramento River Basin*

| **ST0003**<br>**Sutter Maintenance Yard East Levee**<br>**Sacramento River** | Overall LMA Rating | Total LMA Miles | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **A** | **26.82** | | | | | | |
| Rated Item | Maintenance Deficiency | | | | Enforcement | | Design & System Obsolescence | |
| | M Miles | U Miles | M + 4U Miles | Threshold % | M Miles | U Miles | M Miles | U Miles |
| *Earthen Levee* | | | | | | | | |
| Vegetation | 1.01 | | 1.01 | 3.77% | 0.04 | 0.08 | | |
| Trim / Thin Trees | 0.04 | | 0.04 | 0.15% | | | | |
| Encroachments | 0.01 | | 0.01 | 0.04% | 2.37 | 0.06 | | |
| Animal Control | 0.02 | | 0.02 | 0.08% | | | | |
| Slope Stability | 0.01 | | 0.01 | 0.04% | | | | |
| *Supplemental* | | | | | | | | |
| DRAFT DWR UCIP Field Study | | | | | 0.82 | 0.08 | | |
| DRAFT DWR UCIP LMA Responsibility | | | | | | | | |
| *LMA Totals:* | 1.09 | 0.00 | 1.09 | 4.06% | 3.23 | 0.22 | 0.00 | 0.00 |

| **Unit No. 01 Sacramento River LB**<br>ST0003 | Overall Unit Rating | Total Unit Miles | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **A** | **19.85** | | | | | | |
| Rated Item | Maintenance Deficiency | | | | Enforcement | | Design & System Obsolescence | |
| | M Miles | U Miles | M + 4U Miles | Threshold % | M Miles | U Miles | M Miles | U Miles |
| *Earthen Levee* | | | | | | | | |
| Vegetation | 0.43 | | 0.43 | 2.17% | 0.04 | 0.08 | | |
| Trim / Thin Trees | 0.04 | | 0.04 | 0.20% | | | | |
| Encroachments | 0.01 | | 0.01 | 0.05% | 1.05 | 0.06 | | |
| Slope Stability | 0.01 | | 0.01 | 0.05% | | | | |
| *Supplemental* | | | | | | | | |
| DRAFT DWR UCIP Field Study | | | | | 0.73 | 0.08 | | |
| DRAFT DWR UCIP LMA Responsibility | | | | | | | | |
| *Unit Totals:* | 0.49 | 0.00 | 0.49 | 2.47% | 1.82 | 0.22 | 0.00 | 0.00 |

| **Unit No. 02 Colusa Bypass RB**<br>ST0003 | Overall Unit Rating | Total Unit Miles | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **A** | **2.20** | | | | | | |
| Rated Item | Maintenance Deficiency | | | | Enforcement | | Design & System Obsolescence | |
| | M Miles | U Miles | M + 4U Miles | Threshold % | M Miles | U Miles | M Miles | U Miles |
| *Earthen Levee* | | | | | | | | |
| Vegetation | 0.20 | | 0.20 | 9.10% | | | | |
| *Supplemental* | | | | | | | | |
| DRAFT DWR UCIP Field Study | | | | | 0.04 | | | |
| *Unit Totals:* | 0.20 | 0.00 | 0.20 | 9.10% | 0.04 | 0.00 | 0.00 | 0.00 |

| **Unit No. 03 Colusa Bypass LB**<br>ST0003 | Overall Unit Rating | Total Unit Miles | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **M** | **2.29** | | | | | | |
| Rated Item | Maintenance Deficiency | | | | Enforcement | | Design & System Obsolescence | |
| | M Miles | U Miles | M + 4U Miles | Threshold % | M Miles | U Miles | M Miles | U Miles |
| *Earthen Levee* | | | | | | | | |
| Vegetation | 0.38 | | 0.38 | 16.61% | | | | |
| *Supplemental* | | | | | | | | |
| DRAFT DWR UCIP Field Study | | | | | 0.03 | | | |
| *Unit Totals:* | 0.38 | 0.00 | 0.38 | 16.61% | 0.03 | 0.00 | 0.00 | 0.00 |

**Flood Control Project Maintenance**
**Levee Inspections**

# Fall 2019 Levee Maintenance Deficiency Summary Report

## Overall LMA & Unit Ratings, including USACE Erosion Survey

### *Sacramento River Basin (cont.)*

| **Unit No. 04 Moulton Bypass RB** ST0003 | Overall Unit Rating: **A** | Total Unit Miles: **0.30** | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated Item | Maintenance Deficiency | | | | Enforcement | | Design & System Obsolescence | |
| | M Miles | U Miles | M + 4U Miles | Threshold % | M Miles | U Miles | M Miles | U Miles |
| *Supplemental* | | | | | | | | |
| DRAFT DWR UCIP Field Study | | | | | 0.01 | | | |
| *Unit Totals:* | 0.00 | 0.00 | 0.00 | 0.00% | 0.01 | 0.00 | 0.00 | 0.00 |

| **Unit No. 05 Moulton Bypass LB** ST0003 | Overall Unit Rating: **A** | Total Unit Miles: **2.19** | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated Item | Maintenance Deficiency | | | | Enforcement | | Design & System Obsolescence | |
| | M Miles | U Miles | M + 4U Miles | Threshold % | M Miles | U Miles | M Miles | U Miles |
| *Earthen Levee* | | | | | | | | |
| Encroachments | | | | | 1.32 | | | |
| Animal Control | 0.02 | | 0.02 | 0.92% | | | | |
| *Supplemental* | | | | | | | | |
| DRAFT DWR UCIP Field Study | | | | | 0.01 | | | |
| *Unit Totals:* | 0.02 | 0.00 | 0.02 | 0.92% | 1.33 | 0.00 | 0.00 | 0.00 |

**Flood Control Project Maintenance**
**Levee Inspections**

# LMA District Cover Sheet

**Fall 2019 Levee Inspection Results**

# Sutter Maintenance Yard East Levee Sacramento River

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

** 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 indiction of risk.

Comments

**Flood Control Project Maintenance**
**Levee Inspections**

# Unit Cover Sheet

**Fall 2019 Levee Inspection Results**

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles |
|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 |

| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
|---|---|---|---|---|
| Unit Maintenance Rating (Fall Only) | | | **A** | |
| Date of Inspection | 4/16/2019 - 4/16/2019 | | 10/16/2019 - 10/16/2019 | |
| DWR Inspector | Makar Sokol | | Makar Sokol | |
| Accompanied By | Bryan Reniff<br>Sutter Maintenance Yard | | Lincoln Carey<br>Sutter Maintenance Yard | |

**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

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.00** | Rating ** | A | Issue No. | **10** |
| LM End | **0.00** | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Operations & Maintenance Manuals | | | 39.194083 ° | 39.194083 ° |
| | | | | -121.935512 ° | -121.935512 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_10 | | | | |

Comment Code

Inspector Comment

LMA has O+M manual.

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.00** | Rating ** | A | Issue No. | **15** |
| LM End | **0.00** | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Emergency Supplies & Equipment | | | 39.194083 ° | 39.194083 ° |
| | | | | -121.935512 ° | -121.935512 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_15 | | | | |

Comment Code

Inspector Comment

LMA has a stockpile of supplies.

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.00** | Rating ** | A | Issue No. | **16** |
| LM End | **0.00** | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Flood Preparedness & Training | | | 39.194083 ° | 39.194083 ° |
| | | | | -121.935512 ° | -121.935512 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_16 | | | | |

Comment Code

Inspector Comment

The LMA attends annual training and maintains emergency response plans.

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.06** | Rating ** | M | Issue No. | **160** |
| LM End | **0.06** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194832 ° | 39.194832 ° |
| | | | | -121.936170 ° | -121.936170 ° |
| DWR ID | 17328 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17328
FS_ID:56002
EP_NO: 9497
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing outfall structure. Structure drains water from Cherokee and Butte Slough into Sacramento River. Both inlet and outlet structures were underwater during inspection. Point of contact for Butte Slough Outfall Structure is Casey Wilder, DWR FMO-Sutter Yard Engineer. Obtained the 2008 underwater inspection of Butte Slough Flood Control Structure from Casey Wilder. Need to review report and obtain current maintenance records of structure. (O. Magana - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)04/24/2017 Both sides of crossing were underwater during site visit. Will revisit when water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Outfall Structure] 1 of 7: 66-inch drainage pipe of an unknown material through the levee, 30 feet below the crown. Slide gate on the Butte Slough side. Flap gate located on the Sacramento River side. (Automatic Board Order (ABO) issued as Permit No. 9497, 1974 - DWR). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 10:58:00 AM

Photo 1 of 3 : UCIP_FA_2019_56002_46901.jpg

WS view: overview towards gage station.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.06** | Rating ** | M | Issue No. | **160 (cont)** |
| LM End | **0.06** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194832 ° | 39.194832 ° |
| | | | | -121.936170 ° | -121.936170 ° |
| DWR ID | 17328 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17328
FS_ID:56002
EP_NO: 9497
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing outfall structure. Structure drains water from Cherokee and Butte Slough into Sacramento River. Both inlet and outlet structures were underwater during inspection. Point of contact for Butte Slough Outfall Structure is Casey Wilder, DWR FMO-Sutter Yard Engineer. Obtained the 2008 underwater inspection of Butte Slough Flood Control Structure from Casey Wilder. Need to review report and obtain current maintenance records of structure. (O. Magana - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)04/24/2017 Both sides of crossing were underwater during site visit. Will revisit when water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
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FS Date: 7/29/2019 10:58:00 AM

Photo 2 of 3 : UCIP_FA_2019_56002_46905.jpg

WS view: overview towards levee slope.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.06** | Rating ** | M | Issue No. | **160 (cont)** |
| LM End | **0.06** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194832 ° | 39.194832 ° |
| | | | | -121.936170 ° | -121.936170 ° |
| DWR ID | 17328 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17328
FS_ID:56002
EP_NO: 9497
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing outfall structure. Structure drains water from Cherokee and Butte Slough into Sacramento River. Both inlet and outlet structures were underwater during inspection. Point of contact for Butte Slough Outfall Structure is Casey Wilder, DWR FMO-Sutter Yard Engineer. Obtained the 2008 underwater inspection of Butte Slough Flood Control Structure from Casey Wilder. Need to review report and obtain current maintenance records of structure. (O. Magana - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)04/24/2017 Both sides of crossing were underwater during site visit. Will revisit when water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
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FS Date: 7/29/2019 10:58:00 AM

Photo 3 of 3 : UCIP_FA_2019_56002_46902.jpg

WS view: overview towards gage station and walkway.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.07** | Rating ** | M | Issue No. | **161** |
| LM End | **0.07** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194863 ° | 39.194863 ° |
| | | | | -121.936212 ° | -121.936212 ° |
| DWR ID | 17524 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17524
FS_ID:56003
EP_NO: 9497
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing outfall structure. Structure drains water from Cherokee and Butte Slough into Sacramento River. Both inlet and outlet structures were underwater during inspection. Point of contact for Butte Slough Outfall Structure is Casey Wilder, DWR FMO-Sutter Yard Engineer. Obtained the 2008 underwater inspection of Butte Slough Flood Control Structure from Casey Wilder. Need to review report and obtain current maintenance records of structure. (O. Magana - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)04/24/2017 Both sides of crossing were underwater during site visit. Will revisit when water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Outfall Structure] 2 of 7: 66-inch drainage pipe of an unknown material through the levee, 30 feet below the crown. Slide gate on the Butte Slough side. Flap gate located on the Sacramento River side. (Automatic Board Order (ABO) issued as Permit No. 9497, 1974 - DWR). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 10:59:00 AM

Photo 1 of 3 : UCIP_FA_2019_56003_46920.jpg

LS view: overview towards walkway.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.07** | Rating ** | M | Issue No. | **161 (cont)** |
| LM End | **0.07** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194863 ° | 39.194863 ° |
| | | | | -121.936212 ° | -121.936212 ° |
| DWR ID | 17524 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17524
FS_ID:56003
EP_NO: 9497
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing outfall structure. Structure drains water from Cherokee and Butte Slough into Sacramento River. Both inlet and outlet structures were underwater during inspection. Point of contact for Butte Slough Outfall Structure is Casey Wilder, DWR FMO-Sutter Yard Engineer. Obtained the 2008 underwater inspection of Butte Slough Flood Control Structure from Casey Wilder. Need to review report and obtain current maintenance records of structure. (O. Magana - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)04/24/2017 Both sides of crossing were underwater during site visit. Will revisit when water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Outfall Structure] 2 of 7: 66-inch drainage pipe of an unknown material through the levee, 30 feet below the crown. Slide gate on the Butte Slough side. Flap gate located on the Sacramento River side. (Automatic Board Order (ABO) issued as Permit No. 9497, 1974 - DWR). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 10:59:00 AM

Photo 2 of 3 : UCIP_FA_2019_56003_46924.jpg

LS view: steel walkway.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

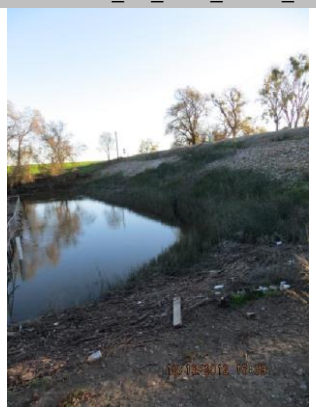
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.07** | Rating ** | M | Issue No. | **161 (cont)** |
| LM End | **0.07** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194863 ° | 39.194863 ° |
| | | | | -121.936212 ° | -121.936212 ° |
| DWR ID | 17524 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17524
FS_ID:56003
EP_NO: 9497
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing outfall structure. Structure drains water from Cherokee and Butte Slough into Sacramento River. Both inlet and outlet structures were underwater during inspection. Point of contact for Butte Slough Outfall Structure is Casey Wilder, DWR FMO-Sutter Yard Engineer. Obtained the 2008 underwater inspection of Butte Slough Flood Control Structure from Casey Wilder. Need to review report and obtain current maintenance records of structure. (O. Magana - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)04/24/2017 Both sides of crossing were underwater during site visit. Will revisit when water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Outfall Structure] 2 of 7: 66-inch drainage pipe of an unknown material through the levee, 30 feet below the crown. Slide gate on the Butte Slough side. Flap gate located on the Sacramento River side. (Automatic Board Order (ABO) issued as Permit No. 9497, 1974 - DWR). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 10:59:00 AM

Photo 3 of 3 : UCIP_FA_2019_56003_46923.jpg



LS view: overview towards levee slope.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.07** | Rating ** | M | Issue No. | **162** |
| LM End | **0.07** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194879 ° | 39.194879 ° |
| | | | | -121.936233 ° | -121.936233 ° |
| DWR ID | 17525 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17525
FS_ID:56004
EP_NO: 9497
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing outfall structure. Structure drains water from Cherokee and Butte Slough into Sacramento River. Both inlet and outlet structures were underwater during inspection. Point of contact for Butte Slough Outfall Structure is Casey Wilder, DWR FMO-Sutter Yard Engineer. Obtained the 2008 underwater inspection of Butte Slough Flood Control Structure from Casey Wilder. Need to review report and obtain current maintenance records of structure. (O. Magana - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)04/24/2017 Both sides of crossing were underwater during site visit. Will revisit when water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Outfall Structure] 3 of 7: 66-inch drainage pipe of an unknown material through the levee, 30 feet below the crown. Slide gate on the Butte Slough side. Flap gate located on the Sacramento River side. (Automatic Board Order (ABO) issued as Permit No. 9497, 1974 - DWR). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 11:00:00 AM

Photo 1 of 3 : UCIP_FA_2019_56004_46927.jpg

LS view: overview towards walkway.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.07** | Rating ** | M | Issue No. | **162 (cont)** |
| LM End | **0.07** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194879 ° | 39.194879 ° |
| | | | | -121.936233 ° | -121.936233 ° |
| DWR ID | 17525 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17525
FS_ID:56004
EP_NO: 9497
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing outfall structure. Structure drains water from Cherokee and Butte Slough into Sacramento River. Both inlet and outlet structures were underwater during inspection. Point of contact for Butte Slough Outfall Structure is Casey Wilder, DWR FMO-Sutter Yard Engineer. Obtained the 2008 underwater inspection of Butte Slough Flood Control Structure from Casey Wilder. Need to review report and obtain current maintenance records of structure. (O. Magana - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)04/24/2017 Both sides of crossing were underwater during site visit. Will revisit when water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Outfall Structure] 3 of 7: 66-inch drainage pipe of an unknown material through the levee, 30 feet below the crown. Slide gate on the Butte Slough side. Flap gate located on the Sacramento River side. (Automatic Board Order (ABO) issued as Permit No. 9497, 1974 - DWR). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 11:00:00 AM

Photo 2 of 3 : UCIP_FA_2019_56004_46926.jpg

LS view: steel walkway.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

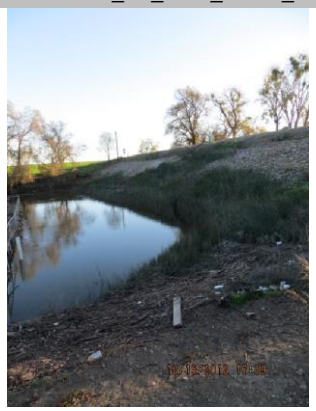
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.07** | Rating ** | M | Issue No. | **162 (cont)** |
| LM End | **0.07** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194879 ° | 39.194879 ° |
| | | | | -121.936233 ° | -121.936233 ° |
| DWR ID | 17525 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17525
FS_ID:56004
EP_NO: 9497
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing outfall structure. Structure drains water from Cherokee and Butte Slough into Sacramento River. Both inlet and outlet structures were underwater during inspection. Point of contact for Butte Slough Outfall Structure is Casey Wilder, DWR FMO-Sutter Yard Engineer. Obtained the 2008 underwater inspection of Butte Slough Flood Control Structure from Casey Wilder. Need to review report and obtain current maintenance records of structure. (O. Magana - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)04/24/2017 Both sides of crossing were underwater during site visit. Will revisit when water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Outfall Structure] 3 of 7: 66-inch drainage pipe of an unknown material through the levee, 30 feet below the crown. Slide gate on the Butte Slough side. Flap gate located on the Sacramento River side. (Automatic Board Order (ABO) issued as Permit No. 9497, 1974 - DWR). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 11:00:00 AM

Photo 3 of 3 : UCIP_FA_2019_56004_46925.jpg



LS view: overview towards levee slope.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.07** | Rating ** | M | Issue No. | **163** |
| LM End | **0.07** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194904 ° | 39.194904 ° |
| | | | | -121.936268 ° | -121.936268 ° |
| DWR ID | 17526 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17526
FS_ID:56005
EP_NO: 9497
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing outfall structure. Structure drains water from Cherokee and Butte Slough into Sacramento River. Both inlet and outlet structures were underwater during inspection. Point of contact for Butte Slough Outfall Structure is Casey Wilder, DWR FMO-Sutter Yard Engineer. Obtained the 2008 underwater inspection of Butte Slough Flood Control Structure from Casey Wilder. Need to review report and obtain current maintenance records of structure. (O. Magana - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)04/24/2017 Both sides of crossing were underwater during site visit. Will revisit when water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Outfall Structure] 4 of 7: 66-inch drainage pipe of an unknown material through the levee, 30 feet below the crown. Slide gate on the Butte Slough side. Flap gate located on the Sacramento River side. (Automatic Board Order (ABO) issued as Permit No. 9497, 1974 - DWR). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 11:01:00 AM

Photo 1 of 3 : UCIP_FA_2019_56005_46932.jpg

LS view: overview towards walkway.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.07** | Rating ** | M | Issue No. | **163 (cont)** |
| LM End | **0.07** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194904 ° | 39.194904 ° |
| | | | | -121.936268 ° | -121.936268 ° |
| DWR ID | 17526 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17526
FS_ID:56005
EP_NO: 9497
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing outfall structure. Structure drains water from Cherokee and Butte Slough into Sacramento River. Both inlet and outlet structures were underwater during inspection. Point of contact for Butte Slough Outfall Structure is Casey Wilder, DWR FMO-Sutter Yard Engineer. Obtained the 2008 underwater inspection of Butte Slough Flood Control Structure from Casey Wilder. Need to review report and obtain current maintenance records of structure. (O. Magana - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)04/24/2017 Both sides of crossing were underwater during site visit. Will revisit when water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Outfall Structure] 4 of 7: 66-inch drainage pipe of an unknown material through the levee, 30 feet below the crown. Slide gate on the Butte Slough side. Flap gate located on the Sacramento River side. (Automatic Board Order (ABO) issued as Permit No. 9497, 1974 - DWR). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 11:01:00 AM

Photo 2 of 3 : UCIP_FA_2019_56005_46931.jpg

LS view: steel walkway.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

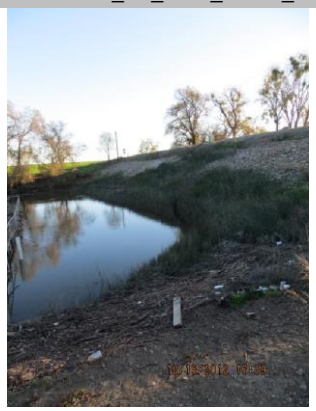
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.07** | Rating ** | M | Issue No. | **163 (cont)** |
| LM End | **0.07** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194904 ° | 39.194904 ° |
| | | | | -121.936268 ° | -121.936268 ° |
| DWR ID | 17526 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17526
FS_ID:56005
EP_NO: 9497
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing outfall structure. Structure drains water from Cherokee and Butte Slough into Sacramento River. Both inlet and outlet structures were underwater during inspection. Point of contact for Butte Slough Outfall Structure is Casey Wilder, DWR FMO-Sutter Yard Engineer. Obtained the 2008 underwater inspection of Butte Slough Flood Control Structure from Casey Wilder. Need to review report and obtain current maintenance records of structure. (O. Magana - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)04/24/2017 Both sides of crossing were underwater during site visit. Will revisit when water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Outfall Structure] 4 of 7: 66-inch drainage pipe of an unknown material through the levee, 30 feet below the crown. Slide gate on the Butte Slough side. Flap gate located on the Sacramento River side. (Automatic Board Order (ABO) issued as Permit No. 9497, 1974 - DWR). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 11:01:00 AM

Photo 3 of 3 : UCIP_FA_2019_56005_46930.jpg



LS view: overview towards levee slope.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.07** | Rating ** | M | Issue No. | **164** |
| LM End | **0.07** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194925 ° | 39.194925 ° |
| | | | | -121.936297 ° | -121.936297 ° |
| DWR ID | 17527 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17527
FS_ID:56006
EP_NO: 9497
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing outfall structure. Structure drains water from Cherokee and Butte Slough into Sacramento River. Both inlet and outlet structures were underwater during inspection. Point of contact for Butte Slough Outfall Structure is Casey Wilder, DWR FMO-Sutter Yard Engineer. Obtained the 2008 underwater inspection of Butte Slough Flood Control Structure from Casey Wilder. Need to review report and obtain current maintenance records of structure. (O. Magana - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)04/24/2017 Both sides of crossing were underwater during site visit. Will revisit when water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Outfall Structure] 5 of 7: 66-inch drainage pipe of an unknown material through the levee, 30 feet below the crown. Slide gate on the Butte Slough side. Flap gate located on the Sacramento River side. (Automatic Board Order (ABO) issued as Permit No. 9497, 1974 - DWR). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 11:01:00 AM

Photo 1 of 3 : UCIP_FA_2019_56006_46938.jpg

LS view: overview towards walkway.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.07** | Rating ** | M | Issue No. | **164 (cont)** |
| LM End | **0.07** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194925 ° | 39.194925 ° |
| | | | | -121.936297 ° | -121.936297 ° |
| DWR ID | 17527 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17527
FS_ID:56006
EP_NO: 9497
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing outfall structure. Structure drains water from Cherokee and Butte Slough into Sacramento River. Both inlet and outlet structures were underwater during inspection. Point of contact for Butte Slough Outfall Structure is Casey Wilder, DWR FMO-Sutter Yard Engineer. Obtained the 2008 underwater inspection of Butte Slough Flood Control Structure from Casey Wilder. Need to review report and obtain current maintenance records of structure. (O. Magana - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)04/24/2017 Both sides of crossing were underwater during site visit. Will revisit when water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Outfall Structure] 5 of 7: 66-inch drainage pipe of an unknown material through the levee, 30 feet below the crown. Slide gate on the Butte Slough side. Flap gate located on the Sacramento River side. (Automatic Board Order (ABO) issued as Permit No. 9497, 1974 - DWR). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 11:01:00 AM

Photo 2 of 3 : UCIP_FA_2019_56006_46937.jpg

LS view: steel walkway.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

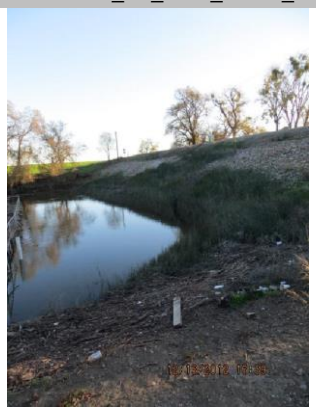
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.07** | Rating ** | M | Issue No. | **164 (cont)** |
| LM End | **0.07** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194925 ° | 39.194925 ° |
| | | | | -121.936297 ° | -121.936297 ° |
| DWR ID | 17527 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17527
FS_ID:56006
EP_NO: 9497
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing outfall structure. Structure drains water from Cherokee and Butte Slough into Sacramento River. Both inlet and outlet structures were underwater during inspection. Point of contact for Butte Slough Outfall Structure is Casey Wilder, DWR FMO-Sutter Yard Engineer. Obtained the 2008 underwater inspection of Butte Slough Flood Control Structure from Casey Wilder. Need to review report and obtain current maintenance records of structure. (O. Magana - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)04/24/2017 Both sides of crossing were underwater during site visit. Will revisit when water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Outfall Structure] 5 of 7: 66-inch drainage pipe of an unknown material through the levee, 30 feet below the crown. Slide gate on the Butte Slough side. Flap gate located on the Sacramento River side. (Automatic Board Order (ABO) issued as Permit No. 9497, 1974 - DWR). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 11:01:00 AM

Photo 3 of 3 : UCIP_FA_2019_56006_46936.jpg



LS view: overview towards levee slope.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.08** | Rating ** | M | Issue No. | **165** |
| LM End | **0.08** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194942 ° | 39.194942 ° |
| | | | | -121.936320 ° | -121.936320 ° |
| DWR ID | 17528 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17528
FS_ID:56007
EP_NO: 9497
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing outfall structure. Structure drains water from Cherokee and Butte Slough into Sacramento River. Both inlet and outlet structures were underwater during inspection. Point of contact for Butte Slough Outfall Structure is Casey Wilder, DWR FMO-Sutter Yard Engineer. Obtained the 2008 underwater inspection of Butte Slough Flood Control Structure from Casey Wilder. Need to review report and obtain current maintenance records of structure. (O. Magana - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)04/24/2017 Both sides of crossing were underwater during site visit. Will revisit when water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Outfall Structure] 6 of 7: 66-inch drainage pipe of an unknown material through the levee, 30 feet below the crown. Slide gate on the Butte Slough side. Flap gate located on the Sacramento River side. (Automatic Board Order (ABO) issued as Permit No. 9497, 1974 - DWR). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 11:02:00 AM

Photo 1 of 3 : UCIP_FA_2019_56007_46941.jpg

LS view: overview towards walkway.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.08** | Rating ** | M | Issue No. | **165 (cont)** |
| LM End | **0.08** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194942 ° | 39.194942 ° |
| | | | | -121.936320 ° | -121.936320 ° |
| DWR ID | 17528 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17528
FS_ID:56007
EP_NO: 9497
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing outfall structure. Structure drains water from Cherokee and Butte Slough into Sacramento River. Both inlet and outlet structures were underwater during inspection. Point of contact for Butte Slough Outfall Structure is Casey Wilder, DWR FMO-Sutter Yard Engineer. Obtained the 2008 underwater inspection of Butte Slough Flood Control Structure from Casey Wilder. Need to review report and obtain current maintenance records of structure. (O. Magana - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)04/24/2017 Both sides of crossing were underwater during site visit. Will revisit when water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Outfall Structure] 6 of 7: 66-inch drainage pipe of an unknown material through the levee, 30 feet below the crown. Slide gate on the Butte Slough side. Flap gate located on the Sacramento River side. (Automatic Board Order (ABO) issued as Permit No. 9497, 1974 - DWR). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 11:02:00 AM

Photo 2 of 3 : UCIP_FA_2019_56007_46940.jpg

LS view: steel walkway.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

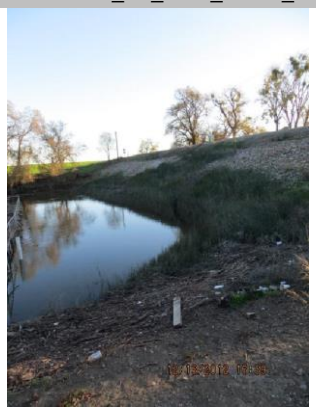
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.08** | Rating ** | M | Issue No. | **165 (cont)** |
| LM End | **0.08** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194942 ° | 39.194942 ° |
| | | | | -121.936320 ° | -121.936320 ° |
| DWR ID | 17528 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17528
FS_ID:56007
EP_NO: 9497
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing outfall structure. Structure drains water from Cherokee and Butte Slough into Sacramento River. Both inlet and outlet structures were underwater during inspection. Point of contact for Butte Slough Outfall Structure is Casey Wilder, DWR FMO-Sutter Yard Engineer. Obtained the 2008 underwater inspection of Butte Slough Flood Control Structure from Casey Wilder. Need to review report and obtain current maintenance records of structure. (O. Magana - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)04/24/2017 Both sides of crossing were underwater during site visit. Will revisit when water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Outfall Structure] 6 of 7: 66-inch drainage pipe of an unknown material through the levee, 30 feet below the crown. Slide gate on the Butte Slough side. Flap gate located on the Sacramento River side. (Automatic Board Order (ABO) issued as Permit No. 9497, 1974 - DWR). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 11:02:00 AM

Photo 3 of 3 : UCIP_FA_2019_56007_46944.jpg



LS view: overview towards levee slope.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.08** | Rating ** | M | Issue No. | **166** |
| LM End | **0.08** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194965 ° | 39.194965 ° |
| | | | | -121.936351 ° | -121.936351 ° |
| DWR ID | 17529 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17529
FS_ID:56008
EP_NO: 9497
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing outfall structure. Structure drains water from Cherokee and Butte Slough into Sacramento River. Both inlet and outlet structures were underwater during inspection. Point of contact for Butte Slough Outfall Structure is Casey Wilder, DWR FMO-Sutter Yard Engineer. Obtained the 2008 underwater inspection of Butte Slough Flood Control Structure from Casey Wilder. Need to review report and obtain current maintenance records of structure. (O. Magana - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)04/24/2017 Both sides of crossing were underwater during site visit. Will revisit when water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Outfall Structure] 7 of 7: 66-inch drainage pipe of an unknown material through the levee, 30 feet below the crown. Slide gate on the Butte Slough side. Flap gate located on the Sacramento River side. (Automatic Board Order (ABO) issued as Permit No. 9497, 1974 - DWR). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 11:03:00 AM

Photo 1 of 3 : UCIP_FA_2019_56008_46947.jpg

LS view: overview towards walkway.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.08** | Rating ** | M | Issue No. | **166 (cont)** |
| LM End | **0.08** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194965 ° | 39.194965 ° |
| | | | | -121.936351 ° | -121.936351 ° |
| DWR ID | 17529 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17529
FS_ID:56008
EP_NO: 9497
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing outfall structure. Structure drains water from Cherokee and Butte Slough into Sacramento River. Both inlet and outlet structures were underwater during inspection. Point of contact for Butte Slough Outfall Structure is Casey Wilder, DWR FMO-Sutter Yard Engineer. Obtained the 2008 underwater inspection of Butte Slough Flood Control Structure from Casey Wilder. Need to review report and obtain current maintenance records of structure. (O. Magana - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)04/24/2017 Both sides of crossing were underwater during site visit. Will revisit when water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Outfall Structure] 7 of 7: 66-inch drainage pipe of an unknown material through the levee, 30 feet below the crown. Slide gate on the Butte Slough side. Flap gate located on the Sacramento River side. (Automatic Board Order (ABO) issued as Permit No. 9497, 1974 - DWR). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 11:03:00 AM

Photo 2 of 3 : UCIP_FA_2019_56008_46946.jpg

LS view: steel walkway.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

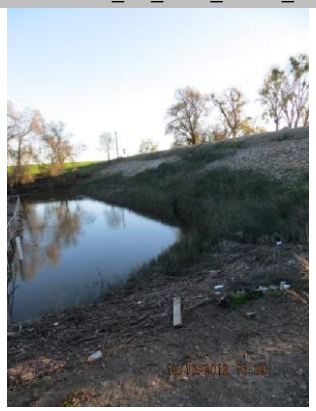
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.08** | Rating ** | M | Issue No. | **166 (cont)** |
| LM End | **0.08** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194965 ° | 39.194965 ° |
| | | | | -121.936351 ° | -121.936351 ° |
| DWR ID | 17529 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17529
FS_ID:56008
EP_NO: 9497
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified authorizing outfall structure. Structure drains water from Cherokee and Butte Slough into Sacramento River. Both inlet and outlet structures were underwater during inspection. Point of contact for Butte Slough Outfall Structure is Casey Wilder, DWR FMO-Sutter Yard Engineer. Obtained the 2008 underwater inspection of Butte Slough Flood Control Structure from Casey Wilder. Need to review report and obtain current maintenance records of structure. (O. Magana - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)04/24/2017 Both sides of crossing were underwater during site visit. Will revisit when water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Outfall Structure] 7 of 7: 66-inch drainage pipe of an unknown material through the levee, 30 feet below the crown. Slide gate on the Butte Slough side. Flap gate located on the Sacramento River side. (Automatic Board Order (ABO) issued as Permit No. 9497, 1974 - DWR). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 11:03:00 AM

Photo 3 of 3 : UCIP_FA_2019_56008_46945.jpg



LS view: overview towards levee slope.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.11** | Rating ** | C | Issue No. | **130** |
| LM End | **0.14** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 39.195163 ° | 39.195038 ° |
| | | | | -121.936815 ° | -121.937435 ° |
| DWR ID | DWR_ST0003_01_s _ 2017_130 | | | | |

**Comment Code**

S1 : Repair slope instability.

**Inspector Comment**

Repair the erosion along the waterside slope.

No Photos

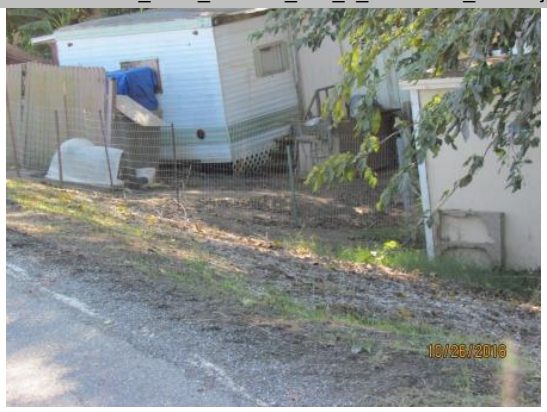
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.15** | Rating ** | U | Issue No. | **3** |
| LM End | **0.20** | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.194978 ° | 39.195022 ° |
| | | | | -121.937502 ° | -121.938563 ° |
| DWR ID | DWR_ST0003_01_s _ 2012_3 | | | | |

**Comment Code**

BU : Building

**Inspector Comment**

Photo 1 of 1 : FA_2019_ST0003_264_3_20190822_00002.jpg




View of the trailers and building on the waterside.

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.24** | Rating ** | C | Issue No. | **82** |
| LM End | **0.24** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 39.195234 ° | 39.195234 ° |
| | | | | -121.939124 ° | -121.939124 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_82 | | | | |

**Comment Code**

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

**Inspector Comment**

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

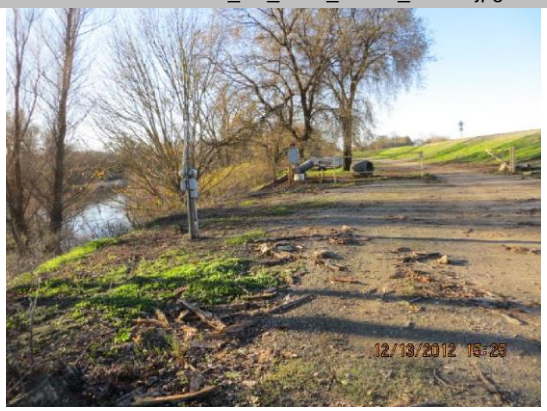
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.25** | Rating ** | U | Issue No. | **167** |
| LM End | **0.25** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.195320 ° | 39.195320 ° |
| | | | | -121.939242 ° | -121.939242 ° |
| DWR ID | 17317 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17317
FS_ID:56009
EP_NO: 12714
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Urgent, soil has been disturbance on the LS toe with signs of ponding water. Unable to determine extent of disturbance near levee toe due to vegetation. Need to contact owner of potential pipe leak or determine source of ponding water near LS toe. (O. Magana - DWR UCIP)04/24/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues. Ground valve on LS.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 16-inch asphalt coated steel irrigation pipe and 2-inch electrical conduit through the levee, 3 feet below the crown. Pump on the waterside (WS) berm. Standpipe and service pole at the landside (LS) toe. (Permit No. 12714, 1979 - Wilber). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 11:04:00 AM

Photo 1 of 3 : UCIP_FA_2019_56009_46951.jpg




WS view: overview

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.25** | Rating ** | U | Issue No. | **167 (cont)** |
| LM End | **0.25** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_56009_46950.jpg

WS view: overview of inclined pipe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.25** | Rating ** | U | Issue No. | **167 (cont)** |
| LM End | **0.25** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.195320 ° | 39.195320 ° |
| | | | | -121.939242 ° | -121.939242 ° |
| DWR ID | 17317 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17317
FS_ID:56009
EP_NO: 12714
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Urgent, soil has been disturbance on the LS toe with signs of ponding water. Unable to determine extent of disturbance near levee toe due to vegetation. Need to contact owner of potential pipe leak or determine source of ponding water near LS toe. (O. Magana - DWR UCIP)04/24/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues. Ground valve on LS.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 16-inch asphalt coated steel irrigation pipe and 2-inch electrical conduit through the levee, 3 feet below the crown. Pump on the waterside (WS) berm. Standpipe and service pole at the landside (LS) toe. (Permit No. 12714, 1979 - Wilber). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 11:04:00 AM

Photo 3 of 3 : UCIP_FA_2019_56009_46954.jpg

WS view: overview of pump and switch board

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.42** | Rating ** | C | Issue No. | **81** |
| LM End | **0.42** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 39.196483 ° | 39.196483 ° |
| | | | | -121.942228 ° | -121.942228 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_81 | | | | |

**Comment Code**

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

**Inspector Comment**

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

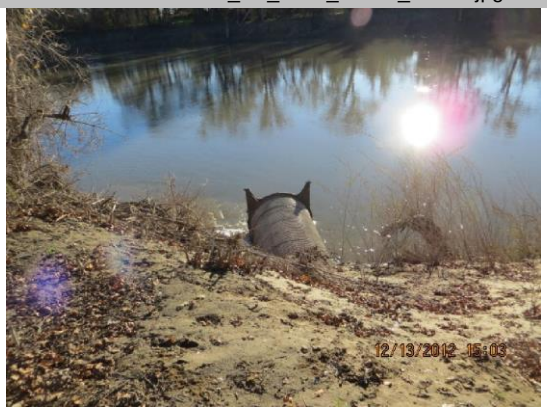
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.51** | Rating ** | U | Issue No. | **168** |
| LM End | **0.51** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.197028 ° | 39.197028 ° |
| | | | | -121.943597 ° | -121.943597 ° |
| DWR ID | 17307 | | | | |

Comment Code

Inspector Comment

DS_ID:17307
FS_ID:56010
EP_NO: 9534
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Urgent, pipe wall at inlet has failed. No permit has been identified authorizing pipe. Records show that this is an LMA responsible structure and not a private owner drainage structure. DWR DMP has completed internal inspection of structure (see report). Need to review record and update current owner of structure. (O. Magana - DWR UCIP)10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)
04/24/2017 Both sides of crossing were underwater during site visit. Will need to revisit after water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues. Semi circle CMP half riser in inlet structure on LS. Inlet opening has no trash rack, this may cause safety issue.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Drainage Structure] 78-inch drainage pipe of an unknown material through the levee, 3 feet below the crown. Flap gate on the waterside (WS). Corrugated metal pipe (CMP) half riser (in a semi-circle configuration) in the inlet structure on the landside (LS). (78-inch pipe [HLM 0.44] authorized under Automatic Board Order (ABO) issued as Permit No. 9534, 1974 - Caleta). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 0.44)].
FS Date: 7/29/2019 11:05:00 AM

Photo 1 of 3 : UCIP_FA_2019_56010_46962.jpg




WS view: overview towards CMP sewer pipe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.51** | Rating ** | U | Issue No. | **168 (cont)** |
| LM End | **0.51** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.197028 ° | 39.197028 ° |
| | | | | -121.943597 ° | -121.943597 ° |
| DWR ID | 17307 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17307
FS_ID:56010
EP_NO: 9534
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Urgent, pipe wall at inlet has failed. No permit has been identified authorizing pipe. Records show that this is an LMA responsible structure and not a private owner drainage structure. DWR DMP has completed internal inspection of structure (see report). Need to review record and update current owner of structure. (O. Magana - DWR UCIP)10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)
04/24/2017 Both sides of crossing were underwater during site visit. Will need to revisit after water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues. Semi circle CMP half riser in inlet structure on LS. Inlet opening has no trash rack, this may cause safety issue.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Drainage Structure] 78-inch drainage pipe of an unknown material through the levee, 3 feet below the crown. Flap gate on the waterside (WS). Corrugated metal pipe (CMP) half riser (in a semi-circle configuration) in the inlet structure on the landside (LS). (78-inch pipe [HLM 0.44] authorized under Automatic Board Order (ABO) issued as Permit No. 9534, 1974 - Caleta). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 0.44)].
FS Date: 7/29/2019 11:05:00 AM

Photo 2 of 3 : UCIP_FA_2019_56010_46960.jpg

WS view: water flowing from CMP sewer pipe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.51** | Rating ** | U | Issue No. | **168 (cont)** |
| LM End | **0.51** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.197028 ° | 39.197028 ° |
| | | | | -121.943597 ° | -121.943597 ° |
| DWR ID | 17307 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17307
FS_ID:56010
EP_NO: 9534
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Urgent, pipe wall at inlet has failed. No permit has been identified authorizing pipe. Records show that this is an LMA responsible structure and not a private owner drainage structure. DWR DMP has completed internal inspection of structure (see report). Need to review record and update current owner of structure. (O. Magana - DWR UCIP)10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)
04/24/2017 Both sides of crossing were underwater during site visit. Will need to revisit after water levels drop. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Good Condition. No issues. Semi circle CMP half riser in inlet structure on LS. Inlet opening has no trash rack, this may cause safety issue.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Butte Slough Drainage Structure] 78-inch drainage pipe of an unknown material through the levee, 3 feet below the crown. Flap gate on the waterside (WS). Corrugated metal pipe (CMP) half riser (in a semi-circle configuration) in the inlet structure on the landside (LS). (78-inch pipe [HLM 0.44] authorized under Automatic Board Order (ABO) issued as Permit No. 9534, 1974 - Caleta). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 0.44)].
FS Date: 7/29/2019 11:05:00 AM

Photo 3 of 3 : UCIP_FA_2019_56010_46961.jpg

LS view: overview

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.54** | Rating ** | C | Issue No. | **9** |
| LM End | **0.68** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.197267 ° | 39.198178 ° |
| | | | | -121.944232 ° | -121.946412 ° |
| DWR ID | DWR_ST0003_01_s _ 2017_9 | | | | |

**Comment Code**

DE : Debris

**Inspector Comment**

Remove the debris from the waterside slope.

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.59** | Rating ** | M | Issue No. | **169** |
| LM End | **0.59** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.197657 ° | 39.197657 ° |
| | | | | -121.945003 ° | -121.945003 ° |
| DWR ID | 17480 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17480
FS_ID:56011
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 07/29/2019 Record has been updated to Non-Urgent, unable to determine status of pipe through the levee. Unable to find any records to show the status of this crossing. Recommend geophysics to determine if crossing still remains through levee. No permit has been identified authorizing pipe. (O. Magana - DWR UCIP)04/24/2017 Unable to locate. (DWR Sutter Yard-AFreitag)11/07/2016 Unable to locate. (DWR Sutter Yard-AFreitag)06/06/2016 Unable to locate.04/06/2015 Unable to locate. Unable to locate.06/30/2014 Unable to locate.12/30/2013 Unable to locate.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 5-inch pipe of an unknown material and purpose through the levee, invert 17.8 feet below the crown. [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 0.53)].
FS Date: 7/29/2019 11:06:00 AM

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.60** | Rating ** | M | Issue No. | **170** |
| LM End | **0.60** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.197657 ° | 39.197657 ° |
| | | | | -121.945003 ° | -121.945003 ° |
| DWR ID | 17485 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17485
FS_ID:55032
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 07/29/2019 Unable to determine the status of this pipe through the levee. Recommend geophysics study to determine if crossing remains through the levee. (O. Magana - DWR UCIP)04/24/2017 Unable to locate. (DWR Sutter Yard-AFreitag)11/07/2016 Unable to locate. (DWR Sutter Yard-AFreitag)06/06/2016 Unable to locate.04/06/2015 Unable to locate.06/30/2014 Unable to locate.12/30/2013 Unable to locate.07/29/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: *ABANDONED* 3-inch pipe of an unknown material and purpose through the levee, invert 17.8 feet below the crown. [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 0.53)].
FS Date: 7/29/2019 11:06:00 AM

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.74** | Rating ** | M | Issue No. | **93** |
| LM End | **0.74** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.198310 ° | 39.198310 ° |
| | | | | -121.947463 ° | -121.947463 ° |
| DWR ID | DWR_ST0003_01_f _ 2018_93 | | | | |

**Comment Code**

PR : Prunings

**Inspector Comment**

The prunings should be removed from the landside slope and toe.

Photo 1 of 1 : FA_2019_ST0003_264_93_20190822_00020.jpg

View of the prunings along the landside slope and toe.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.89** | Rating ** | C | Issue No. | **85** |
| LM End | **0.89** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.196864 ° | 39.196864 ° |
| | | | | -121.949619 ° | -121.949619 ° |
| DWR ID | DWR_ST0003_01_s _ 2019_85 | | | | |

Comment Code

DE : Debris

Inspector Comment

The debris and fallen trees along the waterside toe should be removed.

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.17** | Rating ** | C | Issue No. | **80** |
| LM End | **1.17** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 39.194126 ° | 39.194126 ° |
| | | | | -121.953345 ° | -121.953345 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_80 | | | | |

Comment Code

S1 : Repair slope instability.

Inspector Comment

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.17** | Rating ** | U | Issue No. | **171** |
| LM End | **1.17** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194106 ° | 39.194106 ° |
| | | | | -121.953512 ° | -121.953512 ° |
| DWR ID | 17319 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17319
FS_ID:56012
EP_NO: 9527
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record remains Urgent; same as 2018 inspection. Steep LS slope is causing slope to slip. LS outlet is buried. Need to audit record to determine current owner, pipe is associated to ABO. (O. Magana - DWR UCIP)08/30/2018 WS vegetation completely overgrown towards walkway and pump so could not inspect. WS pipe end is nearly completely covered in debris, pipe cap appears either open or broken, LS erosion still present, and pipe end completely covered in debris so crossing remains Urgent (D. Sanoski - DWR UCIP).04/24/2017 LS slope damage is still present. No repairs have been made to this crossing yet. (DWR Sutter Yard- AFreitag)11/07/2016 No LS repairs have been made yet. (DWR Sutter Yard- AFreitag)06/06/2016 New flow meter installed on WS. Walkway to access the pump is overgrown with vegetation and not accessible. (DWR Sutter Yard - afreitag) 04/05/2016 Caved-in slope on landside (LS) not yet repaired. Leaky pipe marker gone. Per Bob Duffey (DWR FPIIB inspector), pipe will be replaced by owner next year. If not, will go to CVFPB enforcement. (DWR UCIP - kfazel)04/06/2015 Pipe leaks during times of High water. Slope damage still present. Needs a more detailed inspection to find the leak. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 Pipe does not appear to be abandoned. On the WS it appears that a smaller pipe was sleeved into the 18in. Pipe and then the difference capped and welded. Pump was not running at time of inspection but LS ditch near outlet was wet. LS slope damage and leaky pipe marker are still present. (DWR Sutter Yard - afreitag)12/13/2012 Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee, 12.5 feet below the crown. Gate valve on the waterside (WS). Vertical pump on the WS bank. Flow meter on the WS. (Automatic Board Order (ABO) issued as Permit No. 9527, 1974 - Butte Creek Farms) [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 1.1)].
FS Date: 7/29/2019 11:07:00 AM

Photo 1 of 3 : UCIP_FA_2019_56012_46983.jpg

WS view: overview

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.17** | Rating ** | U | Issue No. | **171 (cont)** |
| LM End | **1.17** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194106 ° | 39.194106 ° |
| | | | | -121.953512 ° | -121.953512 ° |
| DWR ID | 17319 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17319
FS_ID:56012
EP_NO: 9527
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record remains Urgent; same as 2018 inspection. Steep LS slope is causing slope to slip. LS outlet is buried. Need to audit record to determine current owner, pipe is associated to ABO. (O. Magana - DWR UCIP)08/30/2018 WS vegetation completely overgrown towards walkway and pump so could not inspect. WS pipe end is nearly completely covered in debris, pipe cap appears either open or broken, LS erosion still present, and pipe end completely covered in debris so crossing remains Urgent (D. Sanoski - DWR UCIP).04/24/2017 LS slope damage is still present. No repairs have been made to this crossing yet. (DWR Sutter Yard- AFreitag)11/07/2016 No LS repairs have been made yet. (DWR Sutter Yard- AFreitag)06/06/2016 New flow meter installed on WS. Walkway to access the pump is overgrown with vegetation and not accessible. (DWR Sutter Yard - afreitag) 04/05/2016 Caved-in slope on landside (LS) not yet repaired. Leaky pipe marker gone. Per Bob Duffey (DWR FPIIB inspector), pipe will be replaced by owner next year. If not, will go to CVFPB enforcement. (DWR UCIP - kfazel)04/06/2015 Pipe leaks during times of High water. Slope damage still present. Needs a more detailed inspection to find the leak. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 Pipe does not appear to be abandoned. On the WS it appears that a smaller pipe was sleeved into the 18in. Pipe and then the difference capped and welded. Pump was not running at time of inspection but LS ditch near outlet was wet. LS slope damage and leaky pipe marker are still present. (DWR Sutter Yard - afreitag)12/13/2012 Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee, 12.5 feet below the crown. Gate valve on the waterside (WS). Vertical pump on the WS bank. Flow meter on the WS. (Automatic Board Order (ABO) issued as Permit No. 9527, 1974 - Butte Creek Farms) [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 1.1)].
FS Date: 7/29/2019 11:07:00 AM

Photo 2 of 3 : UCIP_FA_2019_56012_46981.jpg

WS view: CMP riser with slide gate

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.17** | Rating ** | U | Issue No. | **171 (cont)** |
| LM End | **1.17** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.194106 ° | 39.194106 ° |
| | | | | -121.953512 ° | -121.953512 ° |
| DWR ID | 17319 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17319
FS_ID:56012
EP_NO: 9527
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record remains Urgent; same as 2018 inspection. Steep LS slope is causing slope to slip. LS outlet is buried. Need to audit record to determine current owner, pipe is associated to ABO. (O. Magana - DWR UCIP)08/30/2018 WS vegetation completely overgrown towards walkway and pump so could not inspect. WS pipe end is nearly completely covered in debris, pipe cap appears either open or broken, LS erosion still present, and pipe end completely covered in debris so crossing remains Urgent (D. Sanoski - DWR UCIP).04/24/2017 LS slope damage is still present. No repairs have been made to this crossing yet. (DWR Sutter Yard- AFreitag)11/07/2016 No LS repairs have been made yet. (DWR Sutter Yard- AFreitag)06/06/2016 New flow meter installed on WS. Walkway to access the pump is overgrown with vegetation and not accessible. (DWR Sutter Yard - afreitag) 04/05/2016 Caved-in slope on landside (LS) not yet repaired. Leaky pipe marker gone. Per Bob Duffey (DWR FPIIB inspector), pipe will be replaced by owner next year. If not, will go to CVFPB enforcement. (DWR UCIP - kfazel)04/06/2015 Pipe leaks during times of High water. Slope damage still present. Needs a more detailed inspection to find the leak. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 Pipe does not appear to be abandoned. On the WS it appears that a smaller pipe was sleeved into the 18in. Pipe and then the difference capped and welded. Pump was not running at time of inspection but LS ditch near outlet was wet. LS slope damage and leaky pipe marker are still present. (DWR Sutter Yard - afreitag)12/13/2012 Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee, 12.5 feet below the crown. Gate valve on the waterside (WS). Vertical pump on the WS bank. Flow meter on the WS. (Automatic Board Order (ABO) issued as Permit No. 9527, 1974 - Butte Creek Farms) [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 1.1)].
FS Date: 7/29/2019 11:07:00 AM

Photo 3 of 3 : UCIP_FA_2019_56012_46980.jpg

WS view: inside CMP riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.44** | Rating ** | U | Issue No. | **172** |
| LM End | **1.44** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.192502 ° | 39.192502 ° |
| | | | | -121.958062 ° | -121.958062 ° |
| DWR ID | 17320 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17320
FS_ID:56013
EP_NO: 9543
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 same as 2018 inspection, Urgent. No access is available to WS due to dense vegetation, assume WS pipe is still completely deteriorated. Recommend internal inspection to determine the damage, if any, through the levee. (O. Magana - DWR UCIP)08/30/2018 WS vegetation too thick to clearly inspect WS pipe so assume same condition as last inspections so crossing remains Urgent due to pipe integrity. WS levee slope looks good. No signs of levee threat to the road crown. LS headwall looks in good condition (D. Sanoski - DWR UCIP).04/24/2017 WS was underwater during the site visit but I do not believe that any repairs have been made to this crossing yet. (DWR Sutter Yard- AFreitag)11/07/2016 No repairs have been made here yet. (DWR Sutter Yard- AFreitag)06/17/2016 River levels were down and the WS pipe end was exposed. WS end is completely rotten and damaged and flap gate has fallen off the end of the pipe (see pics). Pipe needs to be replaced or repaired. (DWR Sutter Yard - afreitag)04/05/2016 Erosion on WS slope still present. Pipe still fully submerged on WS and discharging into river during site visit. (DWR UCIP - kfazel)04/06/2015 Pipe leaks during high water. DWR employee said he suspects that the flap gate has rotted and fallen off WS end of pipe. Could not locate WS end of pipe to confirm. Water was flowing through this drain during field survey. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag) 12/13/2012 Water was flowing through this drain during field survey. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe (at 45 degrees) through the levee, 25.2 feet below the crown. Flap gate on the waterside (WS), not found in 2016. (30-inch pipe [HLM 1.38] authorized under Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, revision March 1960 (HLM 1.38)]
FS Date: 7/29/2019 11:08:00 AM

Photo 1 of 3 : UCIP_FA_2019_56013_46992.jpg

WS view: overview of river bank

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.44** | Rating ** | U | Issue No. | **172 (cont)** |
| LM End | **1.44** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.192502 ° | 39.192502 ° |
| | | | | -121.958062 ° | -121.958062 ° |
| DWR ID | 17320 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17320
FS_ID:56013
EP_NO: 9543
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 same as 2018 inspection, Urgent. No access is available to WS due to dense vegetation, assume WS pipe is still completely deteriorated. Recommend internal inspection to determine the damage, if any, through the levee. (O. Magana - DWR UCIP)08/30/2018 WS vegetation too thick to clearly inspect WS pipe so assume same condition as last inspections so crossing remains Urgent due to pipe integrity. WS levee slope looks good. No signs of levee threat to the road crown. LS headwall looks in good condition (D. Sanoski - DWR UCIP).04/24/2017 WS was underwater during the site visit but I do not believe that any repairs have been made to this crossing yet. (DWR Sutter Yard- AFreitag)11/07/2016 No repairs have been made here yet. (DWR Sutter Yard- AFreitag)06/17/2016 River levels were down and the WS pipe end was exposed. WS end is completely rotten and damaged and flap gate has fallen off the end of the pipe (see pics). Pipe needs to be replaced or repaired. (DWR Sutter Yard - afreitag)04/05/2016 Erosion on WS slope still present. Pipe still fully submerged on WS and discharging into river during site visit. (DWR UCIP - kfazel)04/06/2015 Pipe leaks during high water. DWR employee said he suspects that the flap gate has rotted and fallen off WS end of pipe. Could not locate WS end of pipe to confirm. Water was flowing through this drain during field survey. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag) 12/13/2012 Water was flowing through this drain during field survey. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe (at 45 degrees) through the levee, 25.2 feet below the crown. Flap gate on the waterside (WS), not found in 2016. (30-inch pipe [HLM 1.38] authorized under Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, revision March 1960 (HLM 1.38)]
FS Date: 7/29/2019 11:08:00 AM

Photo 2 of 3 : UCIP_FA_2019_56013_46991.jpg

WS view: water flowing from outlet pipe (pipe fully submerge)

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.44** | Rating ** | U | Issue No. | **172 (cont)** |
| LM End | **1.44** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.192502 ° | 39.192502 ° |
| | | | | -121.958062 ° | -121.958062 ° |
| DWR ID | 17320 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17320
FS_ID:56013
EP_NO: 9543
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 same as 2018 inspection, Urgent. No access is available to WS due to dense vegetation, assume WS pipe is still completely deteriorated. Recommend internal inspection to determine the damage, if any, through the levee. (O. Magana - DWR UCIP)08/30/2018 WS vegetation too thick to clearly inspect WS pipe so assume same condition as last inspections so crossing remains Urgent due to pipe integrity. WS levee slope looks good. No signs of levee threat to the road crown. LS headwall looks in good condition (D. Sanoski - DWR UCIP).04/24/2017 WS was underwater during the site visit but I do not believe that any repairs have been made to this crossing yet. (DWR Sutter Yard- AFreitag)11/07/2016 No repairs have been made here yet. (DWR Sutter Yard- AFreitag)06/17/2016 River levels were down and the WS pipe end was exposed. WS end is completely rotten and damaged and flap gate has fallen off the end of the pipe (see pics). Pipe needs to be replaced or repaired. (DWR Sutter Yard - afreitag)04/05/2016 Erosion on WS slope still present. Pipe still fully submerged on WS and discharging into river during site visit. (DWR UCIP - kfazel)04/06/2015 Pipe leaks during high water. DWR employee said he suspects that the flap gate has rotted and fallen off WS end of pipe. Could not locate WS end of pipe to confirm. Water was flowing through this drain during field survey. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag) 12/13/2012 Water was flowing through this drain during field survey. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe (at 45 degrees) through the levee, 25.2 feet below the crown. Flap gate on the waterside (WS), not found in 2016. (30-inch pipe [HLM 1.38] authorized under Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, revision March 1960 (HLM 1.38)]
FS Date: 7/29/2019 11:08:00 AM

Photo 3 of 3 : UCIP_FA_2019_56013_46990.jpg

LS view: overview of levee slope

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.91** | Rating ** | M | Issue No. | **173** |
| LM End | **1.91** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.188180 ° | 39.188180 ° |
| | | | | -121.964688 ° | -121.964688 ° |
| DWR ID | 17322 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17322
FS_ID:56014
EP_NO: 9258
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record remains Non-Urgent, limited inspection due safety concern. Limited inspection due to steep WS slope. Encroachment has been abandoned. Abandoned section of pipe through WS bank slope was found. Two structures were found on WS bank unable to tell whether old walkway structure or 10-inch pipe are still being use. (O. Magana - DWR UCIP)04/24/2017 WS riser was still full of soil. Open 10" pipe on the WS bank was underwater during time of site visit. (DWR Sutter Yard- AFreitag)11/07/2016 WS riser still full of soil. No pump present and 10" pipe left opened on the WS. (DWR Sutter Yard- AFreitag)06/17/2016 Same as last inspection.

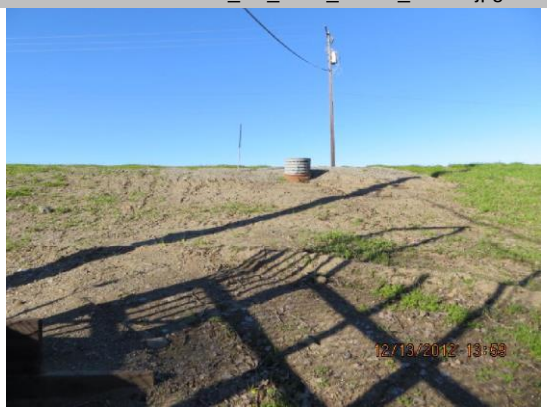
04/06/2015 CMP riser filled with silt/soil on WS. No other issues present.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 10-inch asphalt coated steel irrigation pipe through the levee, 3.7 feet below the crown. Pump installed on the waterside (WS). (10-inch pipe authorized under Permit No. 9258, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 11:09:00 AM

Photo 1 of 3 : UCIP_FA_2019_56014_46998.jpg

WS view: overview

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.91** | Rating ** | M | Issue No. | **173 (cont)** |
| LM End | **1.91** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_56014_46997.jpg




WS view: overview of CMP riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.91** | Rating ** | M | Issue No. | **173 (cont)** |
| LM End | **1.91** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.188180 ° | 39.188180 ° |
| | | | | -121.964688 ° | -121.964688 ° |
| DWR ID | 17322 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17322
FS_ID:56014
EP_NO: 9258
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record remains Non-Urgent, limited inspection due safety concern. Limited inspection due to steep WS slope. Encroachment has been abandoned. Abandoned section of pipe through WS bank slope was found. Two structures were found on WS bank unable to tell whether old walkway structure or 10-inch pipe are still being use. (O. Magana - DWR UCIP)04/24/2017 WS riser was still full of soil. Open 10" pipe on the WS bank was underwater during time of site visit. (DWR Sutter Yard- AFreitag)11/07/2016 WS riser still full of soil. No pump present and 10" pipe left opened on the WS. (DWR Sutter Yard- AFreitag)06/17/2016 Same as last inspection.

04/06/2015 CMP riser filled with silt/soil on WS. No other issues present.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 10-inch asphalt coated steel irrigation pipe through the levee, 3.7 feet below the crown. Pump installed on the waterside (WS). (10-inch pipe authorized under Permit No. 9258, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 11:09:00 AM

Photo 3 of 3 : UCIP_FA_2019_56014_46996.jpg

WS view: CMP riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.91** | Rating ** | M | Issue No. | **174** |
| LM End | **1.91** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.188164 ° | 39.188164 ° |
| | | | | -121.964721 ° | -121.964721 ° |
| DWR ID | 17321 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17321
FS_ID:56015
EP_NO: 9543
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record remains Non-Urgent, modifications were made as of 2012 to the existing structure (new walkway structure located on WS berm edge). Unable to determine whether an official permit was issued for the structure improvements on the WS. No ABO updates were found through permit_edit. Need to determine owner for this structure and obtain details of all improvements made for this structure. (O. Magana - DWR UCIP)08/30/2018 BRAND-NEW pipe and pump structure installed at this location. Pump in operation at time of inspection and no leaks were visible. Downgraded to Non-Urgent; will be further downgraded to No Action Needed when paperwork compliance with CVFPB is confirmed (D. Sanoski - DWR UCIP).04/24/2017 Abandoned and needs to be done so properly. Vegetation was to thick on the LS slope to see and sloughing or slope damage. (DWR Sutter Yard- AFreitag)11/07/2016 Abandoned. (DWR Sutter Yard- AFreitag)06/17/2016 Abandoned crossing. (DWR Sutter Yard - afreitag)04/05/2016 Appears abandoned and should be done so properly. LS levee slope has a slight but sudden drop (could be due to improper compaction). Dense vegetation on LS prevented visibility of sloughing or other damage to levee. Could not locate leaky pipe marker. Per Bryan Reniff of Sutter Yard, marker was previously installed due to a high water event, not leaky pipe. Appears repair work to levee performed but unclear of extent. Gate valve on WS is bent and damaged, appears abandoned. Crossing a good candidate for video inspection. (DWR UCIP - kfazel)04/06/2015 Sloughing LS slope and river bank. DWR marking for leaky pipe. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/13/2012 Sloughing LS slope and river bank. DWR marking for leaky pipe. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: BRAND-NEW: 14-inch concrete encased steel irrigation pipe through the levee, 12.5 feet below the crown. Slant pump mounted on a pile structure on the waterside (WS) berm. Slide gate in a 48-inch riser on the WS berm with a walkway to the pump. Pipe discharges into a concrete distribution box at the landside (LS) toe. Flap gate on the LS end. Electrical conduit mounted to power poles on the LS and WS for service to the pump on the WS. Electrical conduits may partially penetrate both embankments. (Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 1.84)].

Photo 1 of 3 : UCIP_FA_2019_56015_47004.jpg

WS view: pipe @river bank

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

FS Date: 7/29/2019 11:10:00 AM

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.91** | Rating ** | M | Issue No. | **174 (cont)** |
| LM End | **1.91** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_56015_47003.jpg

WS view: abandoned pump station.

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.91** | Rating ** | M | Issue No. | **174 (cont)** |
| LM End | **1.91** | Issue Type + | En | Location * | |

Photo 3 of 3 : UCIP_FA_2019_56015_47002.jpg

WS view: abandoned pump station close-up.

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.93** | Rating ** | C | Issue No. | **88** |
| LM End | **1.93** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.188102 ° | 39.188102 ° |
| | | | | -121.964988 ° | -121.964988 ° |
| DWR ID | DWR_ST0003_01_s _ 2019_88 | | | | |

**Comment Code**

AV : Abandoned vehicles

**Inspector Comment**

The abandoned vehicle should be removed from the waterside slope.

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **2.08** | Rating ** | M | Issue No. | **175** |
| LM End | **2.08** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.187717 ° | 39.187717 ° |
| | | | | -121.967712 ° | -121.967712 ° |
| DWR ID | 17305 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17305
FS_ID:56016
EP_NO: 9541
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record remains Non-Urgent, pipe has been modified and no permit has been identified authorizing pipe. Pipe was previously noted as abandoned however, PG&E smart meter was active during site inspection. Pipe appears to be in use and operable. Need to find current owner to update record. (O. Magana - DWR UCIP)04/24/2017 Abandoned and needs to be done so properly. (DWR Sutter Yard- AFreitag)11/07/2016 Abandoned. (DWR Sutter Yard- AFreitag)06/06/2016 Abandoned crossing. Should be properly abandoned.04/06/2015 Same as last inspection. CMP standpipe with gate valve. Abandoned pump house. Pipe discharges into open ditch at landward toe- not found.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch steel irrigation pipe through the levee, 13.5 feet below the crown. Pump in a metal house on the WS (waterside) berm. Slide gate in a corrugated metal pipe riser on the WS slope. Service pole and guy wire anchor on the WS slope. (Automatic Board Order (ABO) issued as Permit No. 9541, 1974 - Wilbur, McGowan, Zinke). [Additional Reference(s): DWR Levee Logs, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 2.01)].
FS Date: 7/29/2019 11:11:00 AM

Photo 1 of 3 : UCIP_FA_2019_56016_47013.jpg

WS view: overview

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **2.08** | Rating ** | M | Issue No. | **175 (cont)** |
| LM End | **2.08** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_56016_47011.jpg

WS view: overview of pipe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **2.08** | Rating ** | M | Issue No. | **175 (cont)** |
| LM End | **2.08** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.187717 ° | 39.187717 ° |
| | | | | -121.967712 ° | -121.967712 ° |
| DWR ID | 17305 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17305
FS_ID:56016
EP_NO: 9541
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record remains Non-Urgent, pipe has been modified and no permit has been identified authorizing pipe. Pipe was previously noted as abandoned however, PG&E smart meter was active during site inspection. Pipe appears to be in use and operable. Need to find current owner to update record. (O. Magana - DWR UCIP)04/24/2017 Abandoned and needs to be done so properly. (DWR Sutter Yard- AFreitag)11/07/2016 Abandoned. (DWR Sutter Yard- AFreitag)06/06/2016 Abandoned crossing. Should be properly abandoned.04/06/2015 Same as last inspection. CMP standpipe with gate valve. Abandoned pump house. Pipe discharges into open ditch at landward toe- not found.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch steel irrigation pipe through the levee, 13.5 feet below the crown. Pump in a metal house on the WS (waterside) berm. Slide gate in a corrugated metal pipe riser on the WS slope. Service pole and guy wire anchor on the WS slope. (Automatic Board Order (ABO) issued as Permit No. 9541, 1974 - Wilbur, McGowan, Zinke). [Additional Reference(s): DWR Levee Logs, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 2.01)].
FS Date: 7/29/2019 11:11:00 AM

Photo 3 of 3 : UCIP_FA_2019_56016_47012.jpg

WS view: abandoned pump house

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **2.15** | Rating ** | C | Issue No. | **89** |
| LM End | **2.15** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.187698 ° | 39.187698 ° |
| | | | | -121.969020 ° | -121.969020 ° |
| DWR ID | DWR_ST0003_01_s _ 2019_89 | | | | |

**Comment Code**

TR : Tree or limb

**Inspector Comment**

The fallen trees should be removed from the waterside toe.

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **2.30** | Rating ** | M | Issue No. | **176** |
| LM End | **2.30** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.187447 ° | 39.187447 ° |
| | | | | -121.971747 ° | -121.971747 ° |
| DWR ID | 17308 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17308
FS_ID:56017
EP_NO: 7343
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no maintenance records were available to determine status of line. Need to contact owner to determine the condition of the line. No maintenance or inspection records were available to determine condition of the line through the levee. Sign previously attached to posts is now laying on the WS slope. (O. Magana - DWR UCIP)04/24/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Same as last inspection.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 8-inch asphalt coated steel gas pipeline through the levee, 3.5 feet below the crown. Gas line markers found on both sides of the levee. (Permit No. 7343, 1971 - Pacific Gas and Electric Company). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 11:12:00 AM

Photo 1 of 3 : UCIP_FA_2019_56017_47020.jpg

WS view: overview

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **2.30** | Rating ** | M | Issue No. | **176 (cont)** |
| LM End | **2.30** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_56017_47019.jpg

WS view: gasline marker close-up.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **2.30** | Rating ** | M | Issue No. | **176 (cont)** |
| LM End | **2.30** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.187447 ° | 39.187447 ° |
| | | | | -121.971747 ° | -121.971747 ° |
| DWR ID | 17308 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17308
FS_ID:56017
EP_NO: 7343
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, no maintenance records were available to determine status of line. Need to contact owner to determine the condition of the line. No maintenance or inspection records were available to determine condition of the line through the levee. Sign previously attached to posts is now laying on the WS slope. (O. Magana - DWR UCIP)04/24/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 Same as last inspection.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 8-inch asphalt coated steel gas pipeline through the levee, 3.5 feet below the crown. Gas line markers found on both sides of the levee. (Permit No. 7343, 1971 - Pacific Gas and Electric Company). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/29/2019 11:12:00 AM

Photo 3 of 3 : UCIP_FA_2019_56017_47023.jpg

LS view: gas line marker on LS

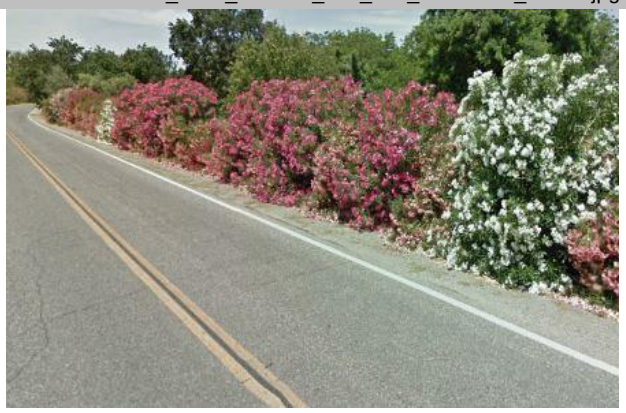
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **2.32** | Rating ** | U | Issue No. | **159** |
| LM End | **2.40** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.187464 ° | 39.187643 ° |
| | | | | -121.972213 ° | -121.973650 ° |
| DWR ID | DWR_ST0003_01_f _ 2019_159 | | | | |

**Comment Code**

V6 : Landscaping

**Inspector Comment**

Photo 1 of 1 : FA_2019_ST0003_264_159_20191017_00241.jpg



View of the landscaping completely blocking visibility and access to the landside slope.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **2.42** | Rating ** | M | Issue No. | **86** |
| LM End | **2.44** | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 39.187718 ° | 39.187824 ° |
| | | | | -121.974005 ° | -121.974343 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_86 | | | | |

**Comment Code**

T1 : Trim trees to at least five feet above ground level.

**Inspector Comment**

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **2.56** | Rating ** | M | Issue No. | **177** |
| LM End | **2.56** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.188768 ° | 39.188768 ° |
| | | | | -121.976305 ° | -121.976305 ° |
| DWR ID | 17309 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17309
FS_ID:56018
EP_NO: 9541
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record remains Non-Urgent, need to audit record to correct current owner of structure. Need to clarify owner for this crossing. Crossing was issued an ABO in 1974 however, this structure seems to be primarily used for drainage. Crossing is listed as LMA responsible and private owner. Crossing appears to be in good condition. (O. Magana - DWR UCIP)04/24/2017 Still no sign of WS pipe end or flap gate. LS appears to be in good condition. (DWR Sutter Yard- AFreitag) 11/07/2016 LS culvert measured to be 30"wide X 30"tall. WS end is not visible so could not be measured. (DWR Sutter Yard- AFreitag)06/06/2016 Cannot locate the WS headwall/flap gate. Appears to have been silted over.04/06/2015 Same as last inspection. Concrete surg box on WS. Flap gate in concrete "U" headwall at the waterward end- not found.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 30-inch reinforced concrete box drainage culvert through the levee, 14.3 feet below the crown. 30-inch corrugated metal pipe connects concrete culvert from slide gate out to flap gate on the waterside (WS) end. Slide gate in a concrete riser on the waterside (WS) slope. (30-inch pipe [HLM 2.49] authorized under Automatic Board Order (ABO) issued as Permit No. 9541, 1974 - Wilbur, McGowan, Zinke). [Additional Reference(s): DWR Levee Logs, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 2.49)].
FS Date: 7/29/2019 11:12:00 AM

Photo 1 of 3 : UCIP_FA_2019_56018_47027.jpg

WS view: overview- concrete surg tank

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **2.56** | Rating ** | M | Issue No. | **177 (cont)** |
| LM End | **2.56** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.188768 ° | 39.188768 ° |
| | | | | -121.976305 ° | -121.976305 ° |
| DWR ID | 17309 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17309
FS_ID:56018
EP_NO: 9541
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record remains Non-Urgent, need to audit record to correct current owner of structure. Need to clarify owner for this crossing. Crossing was issued an ABO in 1974 however, this structure seems to be primarily used for drainage. Crossing is listed as LMA responsible and private owner. Crossing appears to be in good condition. (O. Magana - DWR UCIP)04/24/2017 Still no sign of WS pipe end or flap gate. LS appears to be in good condition. (DWR Sutter Yard- AFreitag) 11/07/2016 LS culvert measured to be 30"wide X 30"tall. WS end is not visible so could not be measured. (DWR Sutter Yard- AFreitag)06/06/2016 Cannot locate the WS headwall/flap gate. Appears to have been silted over.04/06/2015 Same as last inspection. Concrete surg box on WS. Flap gate in concrete "U" headwall at the waterward end- not found.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 30-inch reinforced concrete box drainage culvert through the levee, 14.3 feet below the crown. 30-inch corrugated metal pipe connects concrete culvert from slide gate out to flap gate on the waterside (WS) end. Slide gate in a concrete riser on the waterside (WS) slope. (30-inch pipe [HLM 2.49] authorized under Automatic Board Order (ABO) issued as Permit No. 9541, 1974 - Wilbur, McGowan, Zinke). [Additional Reference(s): DWR Levee Logs, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 2.49)].
FS Date: 7/29/2019 11:12:00 AM

Photo 2 of 3 : UCIP_FA_2019_56018_47026.jpg

WS view: overview- concrete surg tank

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

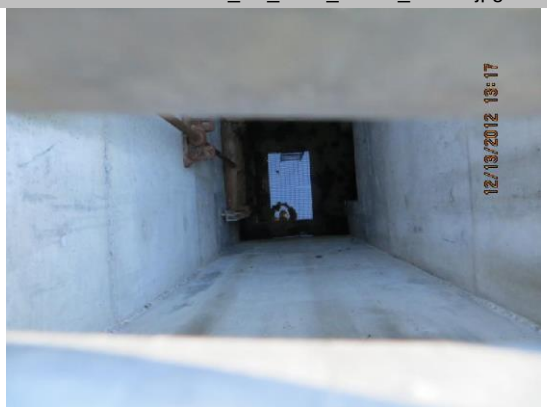
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **2.56** | Rating ** | M | Issue No. | **177 (cont)** |
| LM End | **2.56** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.188768 ° | 39.188768 ° |
| | | | | -121.976305 ° | -121.976305 ° |
| DWR ID | 17309 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17309
FS_ID:56018
EP_NO: 9541
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record remains Non-Urgent, need to audit record to correct current owner of structure. Need to clarify owner for this crossing. Crossing was issued an ABO in 1974 however, this structure seems to be primarily used for drainage. Crossing is listed as LMA responsible and private owner. Crossing appears to be in good condition. (O. Magana - DWR UCIP)04/24/2017 Still no sign of WS pipe end or flap gate. LS appears to be in good condition. (DWR Sutter Yard- AFreitag) 11/07/2016 LS culvert measured to be 30"wide X 30"tall. WS end is not visible so could not be measured. (DWR Sutter Yard- AFreitag)06/06/2016 Cannot locate the WS headwall/flap gate. Appears to have been silted over.04/06/2015 Same as last inspection. Concrete surg box on WS. Flap gate in concrete "U" headwall at the waterward end- not found.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 30-inch reinforced concrete box drainage culvert through the levee, 14.3 feet below the crown. 30-inch corrugated metal pipe connects concrete culvert from slide gate out to flap gate on the waterside (WS) end. Slide gate in a concrete riser on the waterside (WS) slope. (30-inch pipe [HLM 2.49] authorized under Automatic Board Order (ABO) issued as Permit No. 9541, 1974 - Wilbur, McGowan, Zinke). [Additional Reference(s): DWR Levee Logs, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 2.49)].
FS Date: 7/29/2019 11:12:00 AM

Photo 3 of 3 : UCIP_FA_2019_56018_47025.jpg




WS view: slide gate inside concrete surg tank

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **2.73** | Rating ** | M | Issue No. | **178** |
| LM End | **2.73** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.190150 ° | 39.190150 ° |
| | | | | -121.978900 ° | -121.978900 ° |
| DWR ID | 17482 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17482
FS_ID:56019
EP_NO: 11590-A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been modified. Pipe measured as a 12-inch pipe and not a 16-inch pipe as previously referenced in field description. Need to audit record to determine current owner and permit used to modify structure. (O. Magana - DWR UCIP)04/24/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/17/2016 Photos taken by Khalida on 4/5/2016 show the pump house when it was lifted off the platform for work to be done on the pump and pipe. My inspection on 6/6/2016 revealed a new blue pipe coupler installed on the open pipe beneath the pump house and the pump house was reinstalled on top of the pump platform. Crossing appears to be in good condition. (K. Fazel - DWR UCIP)04/04/2016 Same as last inspection.04/06/2015 No issues present.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 16-inch steel irrigation pipe though the levee, 2 feet below the crown. Incline pump and corrugated metal sheet pump house on a steel structure on the waterside (WS). 12-inch intake pipe runs along the WS slope. Unable to confirm if 12-inch pipe also is sleeved through 16-inch pipe. An electrical pole on the WS shoulder. Siphon breaker off the landside (LS) shoulder. Sand filters found on the LS. (Permit No. 11590-A, 1976 - Ehrke). [Additional References: DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 2.66)]. This pipe is a replacement for an existing 16-inch pipe (DSID 17310) abandoned and grouted in place under Permit No. 11590-A, 1976 - Ehrke.
FS Date: 7/29/2019 11:14:00 AM

Photo 1 of 3 : UCIP_FA_2019_56019_47041.jpg

LS view: overview- siphon breaker and outlet pipe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **2.73** | Rating ** | M | Issue No. | **178 (cont)** |
| LM End | **2.73** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.190150 ° | 39.190150 ° |
| | | | | -121.978900 ° | -121.978900 ° |
| DWR ID | 17482 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17482
FS_ID:56019
EP_NO: 11590-A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been modified. Pipe measured as a 12-inch pipe and not a 16-inch pipe as previously referenced in field description. Need to audit record to determine current owner and permit used to modify structure. (O. Magana - DWR UCIP)04/24/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/17/2016 Photos taken by Khalida on 4/5/2016 show the pump house when it was lifted off the platform for work to be done on the pump and pipe. My inspection on 6/6/2016 revealed a new blue pipe coupler installed on the open pipe beneath the pump house and the pump house was reinstalled on top of the pump platform. Crossing appears to be in good condition. (K. Fazel - DWR UCIP)04/04/2016 Same as last inspection.04/06/2015 No issues present.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 16-inch steel irrigation pipe though the levee, 2 feet below the crown. Incline pump and corrugated metal sheet pump house on a steel structure on the waterside (WS). 12-inch intake pipe runs along the WS slope. Unable to confirm if 12-inch pipe also is sleeved through 16-inch pipe. An electrical pole on the WS shoulder. Siphon breaker off the landside (LS) shoulder. Sand filters found on the LS. (Permit No. 11590-A, 1976 - Ehrke). [Additional References: DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 2.66)]. This pipe is a replacement for an existing 16-inch pipe (DSID 17310) abandoned and grouted in place under Permit No. 11590-A, 1976 - Ehrke.
FS Date: 7/29/2019 11:14:00 AM

Photo 2 of 3 : UCIP_FA_2019_56019_47040.jpg

LS view: siphon breaker on levee slope

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **2.73** | Rating ** | M | Issue No. | **178 (cont)** |
| LM End | **2.73** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.190150 ° | 39.190150 ° |
| | | | | -121.978900 ° | -121.978900 ° |
| DWR ID | 17482 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17482
FS_ID:56019
EP_NO: 11590-A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/29/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been modified. Pipe measured as a 12-inch pipe and not a 16-inch pipe as previously referenced in field description. Need to audit record to determine current owner and permit used to modify structure. (O. Magana - DWR UCIP)04/24/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/17/2016 Photos taken by Khalida on 4/5/2016 show the pump house when it was lifted off the platform for work to be done on the pump and pipe. My inspection on 6/6/2016 revealed a new blue pipe coupler installed on the open pipe beneath the pump house and the pump house was reinstalled on top of the pump platform. Crossing appears to be in good condition. (K. Fazel - DWR UCIP)04/04/2016 Same as last inspection.04/06/2015 No issues present.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 16-inch steel irrigation pipe though the levee, 2 feet below the crown. Incline pump and corrugated metal sheet pump house on a steel structure on the waterside (WS). 12-inch intake pipe runs along the WS slope. Unable to confirm if 12-inch pipe also is sleeved through 16-inch pipe. An electrical pole on the WS shoulder. Siphon breaker off the landside (LS) shoulder. Sand filters found on the LS. (Permit No. 11590-A, 1976 - Ehrke). [Additional References: DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 2.66)]. This pipe is a replacement for an existing 16-inch pipe (DSID 17310) abandoned and grouted in place under Permit No. 11590-A, 1976 - Ehrke.
FS Date: 7/29/2019 11:14:00 AM

Photo 3 of 3 : UCIP_FA_2019_56019_47042.jpg

WS view: pump house

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **2.79** | Rating ** | C | Issue No. | **103** |
| LM End | **2.79** | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 39.190671 ° | 39.190671 ° |
| | | | | -121.979706 ° | -121.979706 ° |
| DWR ID | DWR_ST0003_01_s _ 2019_103 | | | | |

**Comment Code**

E2 : Schedule repair of erosion site prior to the next inspection.

**Inspector Comment**

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **2.84** | Rating ** | M | Issue No. | **104** |
| LM End | **2.84** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 39.191162 ° | 39.191162 ° |
| | | | | -121.980365 ° | -121.980365 ° |
| DWR ID | DWR_ST0003_01_s _ 2018_104 | | | | |

**Comment Code**

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

**Inspector Comment**

Photo 1 of 1 : FA_2019_ST0003_264_104_20190822_00029.jpg

View of the erosion along the waterside slope caused by vehicle traffic.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **3.32** | Rating ** | U | Issue No. | **179** |
| LM End | **3.32** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.196865 ° | 39.196865 ° |
| | | | | -121.985280 ° | -121.985280 ° |
| DWR ID | 17311 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17311
FS_ID:56020
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Urgent due to pipe integrity. DMP internal inspection was completed. Internal inspection noted surface damage corrosion and hole void visible, refer to DMP internal inspection report. New gate installed to control flood water entering pipe and flooding LS. No permit has been identified authorizing pipe. Pipe was not in use/clogged prior to the 2017 high water event. Owner will need to coordinate with CVFPB to properly remove or abandon pipe per Title 23 requirements. (O. Magana - DWR UCIP)08/30/2018 Pipe found; at a different Lat/Long than is listed, however. Revised Lat/Long is (39.196865, -121.985280; CLM 3.32). WS pipe end is visible and has a functioning slide gate; LS pipe end is exposed with no closure device or headwall. Keeping as Urgent because the LS pipe discharges into a hole and could pose a threat to the levee prism during a high water event. There are also cracks on the crown that could be related to the pipe beneath. Recommend an internal pipe inspection to be sure of the levee integrity (D.Sanoski - DWR UCIP).04/06/2017 Pipe was found in January 2017 during a high water event when water uncovered the buried WS end which led to uncontrolled water flow through during the high water event. The WS pipe opening was temporarily blocked off by plywood and sandbags until the pipe can be properly plugged or abandoned. Pics updated. (DWR Sutter Yard- Afreitag)11/07/2016 Unable to locate. (DWR Sutter Yard- AFreitag)06/06/2016 Unable to locate.04/06/2015 Unable to locate.06/30/2014 Unable to locate.12/30/2013 Unable to locate.07/29/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Slide gate on the waterside (WS) end. (Automatic Board Order (ABO) issued as Permit No. 9539, 1974 - Locvich). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.25)].
FS Date: 7/30/2019 10:49:00 AM

Photo 1 of 3 : UCIP_FA_2019_56020_76919.jpg

LS view of water exiting the pipe.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **3.32** | Rating ** | U | Issue No. | **179 (cont)** |
| LM End | **3.32** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.196865 ° | 39.196865 ° |
| | | | | -121.985280 ° | -121.985280 ° |
| DWR ID | 17311 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17311
FS_ID:56020
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Urgent due to pipe integrity. DMP internal inspection was completed. Internal inspection noted surface damage corrosion and hole void visible, refer to DMP internal inspection report. New gate installed to control flood water entering pipe and flooding LS. No permit has been identified authorizing pipe. Pipe was not in use/clogged prior to the 2017 high water event. Owner will need to coordinate with CVFPB to properly remove or abandon pipe per Title 23 requirements. (O. Magana - DWR UCIP)08/30/2018 Pipe found; at a different Lat/Long than is listed, however. Revised Lat/Long is (39.196865, -121.985280; CLM 3.32). WS pipe end is visible and has a functioning slide gate; LS pipe end is exposed with no closure device or headwall. Keeping as Urgent because the LS pipe discharges into a hole and could pose a threat to the levee prism during a high water event. There are also cracks on the crown that could be related to the pipe beneath. Recommend an internal pipe inspection to be sure of the levee integrity (D.Sanoski - DWR UCIP).04/06/2017 Pipe was found in January 2017 during a high water event when water uncovered the buried WS end which led to uncontrolled water flow through during the high water event. The WS pipe opening was temporarily blocked off by plywood and sandbags until the pipe can be properly plugged or abandoned. Pics updated. (DWR Sutter Yard- Afreitag)11/07/2016 Unable to locate. (DWR Sutter Yard- AFreitag)06/06/2016 Unable to locate.04/06/2015 Unable to locate.06/30/2014 Unable to locate.12/30/2013 Unable to locate.07/29/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Slide gate on the waterside (WS) end. (Automatic Board Order (ABO) issued as Permit No. 9539, 1974 - Locvich). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.25)].
FS Date: 7/30/2019 10:49:00 AM

Photo 2 of 3 : UCIP_FA_2019_56020_76920.jpg

LS view from levee shoulder

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **3.32** | Rating ** | U | Issue No. | **179 (cont)** |
| LM End | **3.32** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.196865 ° | 39.196865 ° |
| | | | | -121.985280 ° | -121.985280 ° |
| DWR ID | 17311 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17311
FS_ID:56020
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Urgent due to pipe integrity. DMP internal inspection was completed. Internal inspection noted surface damage corrosion and hole void visible, refer to DMP internal inspection report. New gate installed to control flood water entering pipe and flooding LS. No permit has been identified authorizing pipe. Pipe was not in use/clogged prior to the 2017 high water event. Owner will need to coordinate with CVFPB to properly remove or abandon pipe per Title 23 requirements. (O. Magana - DWR UCIP)08/30/2018 Pipe found; at a different Lat/Long than is listed, however. Revised Lat/Long is (39.196865, -121.985280; CLM 3.32). WS pipe end is visible and has a functioning slide gate; LS pipe end is exposed with no closure device or headwall. Keeping as Urgent because the LS pipe discharges into a hole and could pose a threat to the levee prism during a high water event. There are also cracks on the crown that could be related to the pipe beneath. Recommend an internal pipe inspection to be sure of the levee integrity (D.Sanoski - DWR UCIP).04/06/2017 Pipe was found in January 2017 during a high water event when water uncovered the buried WS end which led to uncontrolled water flow through during the high water event. The WS pipe opening was temporarily blocked off by plywood and sandbags until the pipe can be properly plugged or abandoned. Pics updated. (DWR Sutter Yard- Afreitag)11/07/2016 Unable to locate. (DWR Sutter Yard- AFreitag)06/06/2016 Unable to locate.04/06/2015 Unable to locate.06/30/2014 Unable to locate.12/30/2013 Unable to locate.07/29/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Slide gate on the waterside (WS) end. (Automatic Board Order (ABO) issued as Permit No. 9539, 1974 - Locvich). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.25)].
FS Date: 7/30/2019 10:49:00 AM

Photo 3 of 3 : UCIP_FA_2019_56020_76921.jpg

WS view of the temporary plug on WS end.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **3.34** | Rating ** | C | Issue No. | **107** |
| LM End | **3.34** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.197148 ° | 39.197148 ° |
| | | | | -121.985411 ° | -121.985411 ° |
| DWR ID | DWR_ST0003_01_s _ 2019_107 | | | | |

**Comment Code**

TR : Tree or limb

**Inspector Comment**

The tree branches should be removed from the landside slope toe.

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **3.41** | Rating ** | U | Issue No. | **180** |
| LM End | **3.41** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.198180 ° | 39.198180 ° |
| | | | | -121.985557 ° | -121.985557 ° |
| DWR ID | 17312 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17312
FS_ID:56021
EP_NO: 9539
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Urgent, pipe is considered a flood risk. Crossing has been modified from its original design. The separation between the old concrete wall and the new concrete wall causes for flood water to enter the crossing and flood the LS. Flooding was observed during high water patrols in February 2019 and Jan/Feb 2017. No permit has been identified authorizing modifications. (O. Magana - DWR UCIP)08/30/2018 Same as last inspection. Recommend internal pipe inspection to verify pipe integrity and levee integrity so crossing remains Urgent (D. Sanoski - DWR UCIP).04/24/2017 Pipe leaked during the Jan/Feb 2017 high water event. Gap between the top of the WS headwall and concrete plug plus the WS air vents going underwater are the cause of the uncontrolled water flows. (DWR Sutter Yard- AFreitag)11/07/2016 Nothing has changed with this crossing since the last inspection. The gap between the top of the WS headwall and concrete plug could be a problem with water flow during high water times. (DWR Sutter Yard- AFreitag)06/06/2016 One of the pipes appear to be leaking inside of the concrete culvert. From the WS headwall water can be heard flowing inside of the levee behind the concrete plug. The concrete plug also appears to leak as water current can be seen flowing around it. There is also a 1" gap at the top of the plug and the old WS headwall that will allow high water to flow through uncontrolled. (DWR Sutter Yard - afreitag)04/06/2015 6-inch and 18-inch pipes still present in crossing and WS end still plugged with concrete. It seems that the system was originally designed for drainage but later converted into an irrigation system. 6-inch GI pipe and 18-inch PVC pipes inserted into culvert from LS (not plugged). WS opening is plugged with concrete. Probably pump is located 350 ft from levee as seen from Google Earth Map. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)
FIELD_STRUCT_DESC: 30-inch by 36-inch reinforced concrete box drainage and irrigation culvert through the levee, invert 13.6 feet below the crown. Gates with 2-inch flashboards on the waterside (WS) end. 6-inch and 18-inch polyvinyl chloride (PVC) pipes through the culvert on the landside (LS). Culvert designed for drainage but now used for irrigation. (Automatic Board Order (ABO) issued as Permit No. 9539, 1974 - Locvich). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.33)].
FS Date: 7/30/2019 10:51:00 AM

Photo 1 of 3 : UCIP_FA_2019_56021_47049.jpg

WS view: plugged concrete structure and siphon breakers

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **3.41** | Rating ** | U | Issue No. | **180 (cont)** |
| LM End | **3.41** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.198180 ° | 39.198180 ° |
| | | | | -121.985557 ° | -121.985557 ° |
| DWR ID | 17312 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17312
FS_ID:56021
EP_NO: 9539
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Urgent, pipe is considered a flood risk. Crossing has been modified from its original design. The separation between the old concrete wall and the new concrete wall causes for flood water to enter the crossing and flood the LS. Flooding was observed during high water patrols in February 2019 and Jan/Feb 2017. No permit has been identified authorizing modifications. (O. Magana - DWR UCIP)08/30/2018 Same as last inspection. Recommend internal pipe inspection to verify pipe integrity and levee integrity so crossing remains Urgent (D. Sanoski - DWR UCIP).04/24/2017 Pipe leaked during the Jan/Feb 2017 high water event. Gap between the top of the WS headwall and concrete plug plus the WS air vents going underwater are the cause of the uncontrolled water flows. (DWR Sutter Yard- AFreitag)11/07/2016 Nothing has changed with this crossing since the last inspection. The gap between the top of the WS headwall and concrete plug could be a problem with water flow during high water times. (DWR Sutter Yard- AFreitag)06/06/2016 One of the pipes appear to be leaking inside of the concrete culvert. From the WS headwall water can be heard flowing inside of the levee behind the concrete plug. The concrete plug also appears to leak as water current can be seen flowing around it. There is also a 1" gap at the top of the plug and the old WS headwall that will allow high water to flow through uncontrolled. (DWR Sutter Yard - afreitag)04/06/2015 6-inch and 18-inch pipes still present in crossing and WS end still plugged with concrete. It seems that the system was originally designed for drainage but later converted into an irrigation system. 6-inch GI pipe and 18-inch PVC pipes inserted into culvert from LS (not plugged). WS opening is plugged with concrete. Probably pump is located 350 ft from levee as seen from Google Earth Map. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)
FIELD_STRUCT_DESC: 30-inch by 36-inch reinforced concrete box drainage and irrigation culvert through the levee, invert 13.6 feet below the crown. Gates with 2-inch flashboards on the waterside (WS) end. 6-inch and 18-inch polyvinyl chloride (PVC) pipes through the culvert on the landside (LS). Culvert designed for drainage but now used for irrigation. (Automatic Board Order (ABO) issued as Permit No. 9539, 1974 - Locvich). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.33)].
FS Date: 7/30/2019 10:51:00 AM

Photo 2 of 3 : UCIP_FA_2019_56021_47046.jpg

LS view: overview- concrete culvert and pipes

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **3.41** | Rating ** | U | Issue No. | **180 (cont)** |
| LM End | **3.41** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.198180 ° | 39.198180 ° |
| | | | | -121.985557 ° | -121.985557 ° |
| DWR ID | 17312 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17312
FS_ID:56021
EP_NO: 9539
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Urgent, pipe is considered a flood risk. Crossing has been modified from its original design. The separation between the old concrete wall and the new concrete wall causes for flood water to enter the crossing and flood the LS. Flooding was observed during high water patrols in February 2019 and Jan/Feb 2017. No permit has been identified authorizing modifications. (O. Magana - DWR UCIP)08/30/2018 Same as last inspection. Recommend internal pipe inspection to verify pipe integrity and levee integrity so crossing remains Urgent (D. Sanoski - DWR UCIP).04/24/2017 Pipe leaked during the Jan/Feb 2017 high water event. Gap between the top of the WS headwall and concrete plug plus the WS air vents going underwater are the cause of the uncontrolled water flows. (DWR Sutter Yard- AFreitag)11/07/2016 Nothing has changed with this crossing since the last inspection. The gap between the top of the WS headwall and concrete plug could be a problem with water flow during high water times. (DWR Sutter Yard- AFreitag)06/06/2016 One of the pipes appear to be leaking inside of the concrete culvert. From the WS headwall water can be heard flowing inside of the levee behind the concrete plug. The concrete plug also appears to leak as water current can be seen flowing around it. There is also a 1" gap at the top of the plug and the old WS headwall that will allow high water to flow through uncontrolled. (DWR Sutter Yard - afreitag)04/06/2015 6-inch and 18-inch pipes still present in crossing and WS end still plugged with concrete. It seems that the system was originally designed for drainage but later converted into an irrigation system. 6-inch GI pipe and 18-inch PVC pipes inserted into culvert from LS (not plugged). WS opening is plugged with concrete. Probably pump is located 350 ft from levee as seen from Google Earth Map. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)
FIELD_STRUCT_DESC: 30-inch by 36-inch reinforced concrete box drainage and irrigation culvert through the levee, invert 13.6 feet below the crown. Gates with 2-inch flashboards on the waterside (WS) end. 6-inch and 18-inch polyvinyl chloride (PVC) pipes through the culvert on the landside (LS). Culvert designed for drainage but now used for irrigation. (Automatic Board Order (ABO) issued as Permit No. 9539, 1974 - Locvich). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.33)].
FS Date: 7/30/2019 10:51:00 AM

Photo 3 of 3 : UCIP_FA_2019_56021_47047.jpg

LS view: overview of concrete culvert and pipes

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **3.68** | Rating ** | M | Issue No. | **181** |
| LM End | **3.68** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.201650 ° | 39.201650 ° |
| | | | | -121.984075 ° | -121.984075 ° |
| DWR ID | 17313 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17313
FS_ID:56022
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, pipe has been abandoned. Coordinates have been updated from 39.201831, -121.984006 to 39.2016497, -121.9840750 based on the DMP Geophysics Study and UCIP field confirmation. Per the DMP Geophysics Study the pipe is still present through the levee. LMA will need to monitor levee section until funds become available to remove or properly abandon pipe through the levee. (O. Magana - DWR UCIP)04/24/2017 Slide gate structure found on WS about 10ft from levee toe. Vegetation was too thick to see if there were any more appurtances associated with this crossing visible on the WS. Nothing was visible on the LS. House located above pipe alignment at LS levee toe. Crossing appears abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)11/07/2016 Unable to locate. (DWR Sutter Yard- AFreitag)06/06/2016 Unable to locate.04/06/2015 Unable to locate.06/30/2014 Unable to locate.12/30/2013 Unable to locate07/29/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: *ABANDONED* 18-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Slide gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.6)].
FS Date: 7/30/2019 10:52:00 AM

Photo 1 of 3 : UCIP_FA_2019_56022_77004.jpg

Slide gate structure found on WS

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **3.68** | Rating ** | M | Issue No. | **181 (cont)** |
| LM End | **3.68** | Issue Type + | Ma | Location * | |

Photo 2 of 3 : UCIP_FA_2019_56022_80177.jpg

Overview of levee crown looking d/s towards crossing.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **3.68** | Rating ** | M | Issue No. | **181 (cont)** |
| LM End | **3.68** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.201650 ° | 39.201650 ° |
| | | | | -121.984075 ° | -121.984075 ° |
| DWR ID | 17313 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17313
FS_ID:56022
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, pipe has been abandoned. Coordinates have been updated from 39.201831, -121.984006 to 39.2016497, -121.9840750 based on the DMP Geophysics Study and UCIP field confirmation. Per the DMP Geophysics Study the pipe is still present through the levee. LMA will need to monitor levee section until funds become available to remove or properly abandon pipe through the levee. (O. Magana - DWR UCIP)04/24/2017 Slide gate structure found on WS about 10ft from levee toe. Vegetation was too thick to see if there were any more appurtances associated with this crossing visible on the WS. Nothing was visible on the LS. House located above pipe alignment at LS levee toe. Crossing appears abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)11/07/2016 Unable to locate. (DWR Sutter Yard- AFreitag)06/06/2016 Unable to locate.04/06/2015 Unable to locate.06/30/2014 Unable to locate.12/30/2013 Unable to locate07/29/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: *ABANDONED* 18-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Slide gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.6)].
FS Date: 7/30/2019 10:52:00 AM

Photo 3 of 3 : UCIP_FA_2019_56022_77005.jpg

View of WS from levee shoulder

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **3.71** | Rating ** | C | Issue No. | **108** |
| LM End | **3.71** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.202300 ° | 39.202300 ° |
| | | | | -121.983736 ° | -121.983736 ° |
| DWR ID | DWR_ST0003_01_s _ 2019_108 | | | | |

**Comment Code**

TR : Tree or limb

**Inspector Comment**

The large trees should be removed from the waterside slope.

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **3.78** | Rating ** | C | Issue No. | **109** |
| LM End | **3.78** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.203255 ° | 39.203255 ° |
| | | | | -121.983195 ° | -121.983195 ° |
| DWR ID | DWR_ST0003_01_s _ 2019_109 | | | | |

No Photos

**Comment Code**

TR : Tree or limb

**Inspector Comment**

The large tree should be removed from the waterside toe.

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **3.84** | Rating ** | M | Issue No. | **182** |
| LM End | **3.84** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.203936 ° | 39.203936 ° |
| | | | | -121.982769 ° | -121.982769 ° |
| DWR ID | 17483 | | | | |

No Photos

**Comment Code**

**Inspector Comment**

DS_ID:17483
FS_ID:56023
EP_NO: 9501
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 07/30/2019 Record has been updated to Non-Urgent, unable to determine status of pipe through the levee. DWR's DMP Geophysical Study did not confirm pipe through the levee. Record will remain in the database until future Levee Improvement Project can confirm pipe is not present. (O. Magana - DWR UCIP)04/24/2017 Unable to locate. (DWR Sutter Yard- AFreitag)11/07/2016 Unable to locate. (DWR Sutter Yard- AFreitag)06/06/2016 Unable to locate.04/06/2015 Unable to locate.06/30/2014 Unable to locate.12/30/2013 Unable to locate.07/29/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 10-inch irrigation pipe of an unknown material, invert 19.8 feet below crown. Pump located on the waterside (WS) of the levee. (Automatic Board Order (ABO) issued as Permit No. 9501, 1974 - Mayfair Farms, Inc.) [Additional Reference(s): USACE Sacramento O&M Manual 136 (HLM 3.78)].
FS Date: 7/30/2019 10:54:00 AM

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **3.84** | Rating ** | M | Issue No. | **183** |
| LM End | **3.84** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.203939 ° | 39.203939 ° |
| | | | | -121.982768 ° | -121.982768 ° |
| DWR ID | 17323 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17323
FS_ID:56024
EP_NO: 8647
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 07/30/2019 Record has been updated to Non-Urgent, unable to determine status of pipe through the levee. DWR's DMP Geophysical Study did not confirm pipe through the levee. Record will remain in the database until future Levee Improvement Project can confirm pipe is not present. (O. Magana - DWR UCIP)04/24/2017 Unable to locate. (DWR Sutter Yard- AFreitag)11/07/2016 Unable to locate. (DWR Sutter Yard- AFreitag)06/06/2016 Unable to locate.04/06/2015 Unable to locate.06/30/2014 Unable to locate.12/30/2013 Unable to locate.07/29/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 19.8 feet below the crown. Slide gate on the waterside (WS) end. Pipe silted over on both ends. (Automatic Board Order (ABO) issued as Permit No. 8647, 1973 - Mayfair Farms, Inc.). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.78)].
FS Date: 7/30/2019 10:54:00 AM

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **3.85** | Rating ** | U | Issue No. | **184** |
| LM End | **3.85** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.204141 ° | 39.204141 ° |
| | | | | -121.982698 ° | -121.982698 ° |
| DWR ID | 17314 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17314
FS_ID:56025
EP_NO: 9501-1
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record has been updated from Non-Urgent to Urgent due to levee integrity. Erosion present on LS slope caused by leaky siphon breaker. LMA supervisor, B. Reniff, has been notified. Supervisor will notify owner to address issue. Need updated photo of repair. (O. Magana - DWR UCIP)04/24/2017 Crossing appears to be in good condition. (DWR Sutter Yard-AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/17/2016 DO NOT BELIEVE THIS IS AN ABANDONED CROSSING- there is a newer looking pump present inside the WS pump house with an active PG&E power meter. Also the dirt below the siphon breaker inside of the riser on the LS shoulder was wet indicating that the breaker has had running water through it recently. Also the ground under the LS toe air vent was wet indicating that it too has recently had water flowing through it. 04/04/2016 Concrete box on LS still silted in. Cracking and slope failure previously cited appears to have been repaired as we could not locate. Shutoff valves appear in good condition. If crossing is abandoned, should be done so properly.04/06/2015 Same as last inspection.Concrete pit on WS berm.Concrete distribution box on LS silted and erosion around the box.Slope failure/ transverse cracks on LS levee slope.Two depressions on WS berm.06/30/2014 Crossing appears to be being made active again. WS bank has been cleared of all vegetation and debris to allow pump to slide down to water level. New shutoff valve installed on WS shoulder inside of cmp stand pipe. New air-vac installed inside cmp standpipe on LS shoulder and air vent installed on LS toe. Could not Locate pipe end on LS. Need to check for permit number for work done.12/30/2013 Repairs to LS and WS slopes have been completed. Not sure if this is an active or abandoned crossing. LS distribution box is still silted in.07/29/2013 Repairs to LS slope and pipe are in progress. Nothing has been done yet to the WS depressions.
FIELD_STRUCT_DESC: 16-inch asphalt coated steel irrigation pipe through the levee, 2 feet below the crown. Pump house over concrete pit on the waterside (WS) berm. A 16-inch gear-operated butterfly valve inside riser with cover off the WS shoulder. Siphon breaker inside riser with cover off the landside (LS) shoulder. Discharges into a concrete box at the LS toe. (Permit No. 9501-1, 2014 - Howard). This pipe was a replacement for an existing (failed) 16-inch pipe under DSID 25455, referenced in the Levee Log and replaced under Permit No. 9501-1. [Additional Reference(s): DWR Levee Log, 2002]. The Levee Log references this pipe's appurtenances along with the original 16-inch under DSID 25455.

Photo 1 of 3 : UCIP_FA_2019_56025_71480.jpg

WS river bank

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

FS Date: 7/30/2019 10:55:00 AM

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **3.85** | Rating ** | U | Issue No. | **184 (cont)** |
| LM End | **3.85** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_56025_71479.jpg

WS standpipe with shut off valve inside

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **3.85** | Rating ** | U | Issue No. | **184 (cont)** |
| LM End | **3.85** | Issue Type + | En | Location * | |

Photo 3 of 3 : UCIP_FA_2019_56025_71478.jpg

WS shut off valve

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

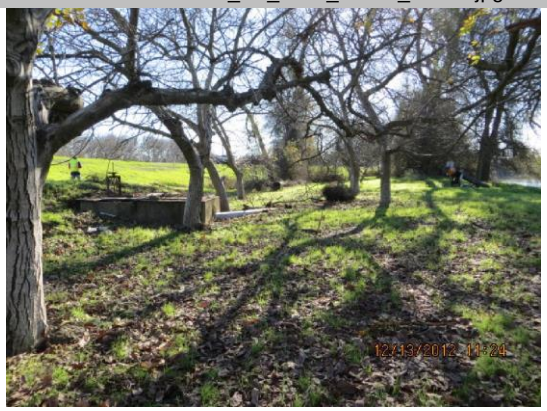
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.08** | Rating ** | M | Issue No. | **185** |
| LM End | **4.08** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.207404 ° | 39.207404 ° |
| | | | | -121.982762 ° | -121.982762 ° |
| DWR ID | 17325 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17325
FS_ID:56026
EP_NO: 1368
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record has been updated from No Action Needed to Non-Urgent, as a safety measure need to contact owner to determine current condition of pipe through the levee. Pipe was originally installed in 1949 and last modified in 1969. Levee section is also considered Butte Slough Road. For safety reasons, recommend internal inspection be conducted of pipe through the levee to determine integrity of pipe through levee/Butte Slough Road. Also need to audit record to determine current owner. (O. Magana - DWR UCIP)04/24/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Pump was running and flowing water through crossing. Appears to be in good condition.04/06/2015 Same as last inspection. A concrete standpipe/distribution box on LS.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 30-inch corrugated metal irrigation pipe through the levee, 17.5 feet below the crown. Slide gate in a concrete distribution box on the waterside (WS) berm. Slant pump on the WS bank. 12-inch steel pipe from pump to concrete pit. Concrete distribution box and standpipe on the landside (LS). (30-inch pipe authorized under Permit No. 1368, 1949 - Wilber). (Additional Related Permit(s) for installation of the pump and 12-inch pipe that discharges into concrete distribution box authorized under Permit No. 6678, 1969 - R. R. Crane; electrical conduit used to service irrigation pump in conjunction with 12-inch pipe authorized under Permit No. 6834, 1969 - R. R. Crane). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.01)].
FS Date: 7/30/2019 10:55:00 AM

Photo 1 of 3 : UCIP_FA_2019_56026_47063.jpg




WS view: overview

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.08** | Rating ** | M | Issue No. | **185 (cont)** |
| LM End | **4.08** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.207404 ° | 39.207404 ° |
| | | | | -121.982762 ° | -121.982762 ° |
| DWR ID | 17325 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17325
FS_ID:56026
EP_NO: 1368
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record has been updated from No Action Needed to Non-Urgent, as a safety measure need to contact owner to determine current condition of pipe through the levee. Pipe was originally installed in 1949 and last modified in 1969. Levee section is also considered Butte Slough Road. For safety reasons, recommend internal inspection be conducted of pipe through the levee to determine integrity of pipe through levee/Butte Slough Road. Also need to audit record to determine current owner. (O. Magana - DWR UCIP)04/24/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Pump was running and flowing water through crossing. Appears to be in good condition.04/06/2015 Same as last inspection. A concrete standpipe/distribution box on LS.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 30-inch corrugated metal irrigation pipe through the levee, 17.5 feet below the crown. Slide gate in a concrete distribution box on the waterside (WS) berm. Slant pump on the WS bank. 12-inch steel pipe from pump to concrete pit. Concrete distribution box and standpipe on the landside (LS). (30-inch pipe authorized under Permit No. 1368, 1949 - Wilber). (Additional Related Permit(s) for installation of the pump and 12-inch pipe that discharges into concrete distribution box authorized under Permit No. 6678, 1969 - R. R. Crane; electrical conduit used to service irrigation pump in conjunction with 12-inch pipe authorized under Permit No. 6834, 1969 - R. R. Crane). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.01)].
FS Date: 7/30/2019 10:55:00 AM

Photo 2 of 3 : UCIP_FA_2019_56026_47061.jpg

WS view: concrete surg box

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

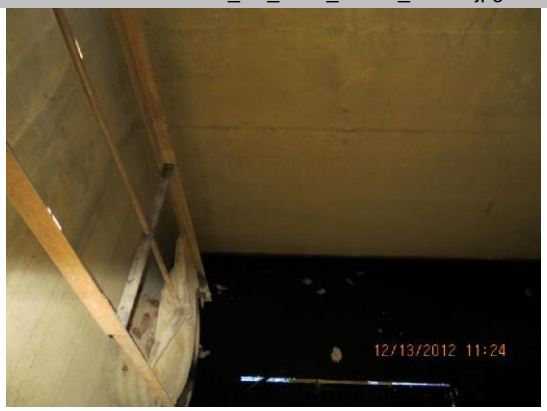
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.08** | Rating ** | M | Issue No. | **185 (cont)** |
| LM End | **4.08** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.207404 ° | 39.207404 ° |
| | | | | -121.982762 ° | -121.982762 ° |
| DWR ID | 17325 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17325
FS_ID:56026
EP_NO: 1368
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record has been updated from No Action Needed to Non-Urgent, as a safety measure need to contact owner to determine current condition of pipe through the levee. Pipe was originally installed in 1949 and last modified in 1969. Levee section is also considered Butte Slough Road. For safety reasons, recommend internal inspection be conducted of pipe through the levee to determine integrity of pipe through levee/Butte Slough Road. Also need to audit record to determine current owner. (O. Magana - DWR UCIP)04/24/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Pump was running and flowing water through crossing. Appears to be in good condition.04/06/2015 Same as last inspection. A concrete standpipe/distribution box on LS.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 30-inch corrugated metal irrigation pipe through the levee, 17.5 feet below the crown. Slide gate in a concrete distribution box on the waterside (WS) berm. Slant pump on the WS bank. 12-inch steel pipe from pump to concrete pit. Concrete distribution box and standpipe on the landside (LS). (30-inch pipe authorized under Permit No. 1368, 1949 - Wilber). (Additional Related Permit(s) for installation of the pump and 12-inch pipe that discharges into concrete distribution box authorized under Permit No. 6678, 1969 - R. R. Crane; electrical conduit used to service irrigation pump in conjunction with 12-inch pipe authorized under Permit No. 6834, 1969 - R. R. Crane). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.01)].
FS Date: 7/30/2019 10:55:00 AM

Photo 3 of 3 : UCIP_FA_2019_56026_47060.jpg




WS view: inside concrete surg box

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.24** | Rating ** | C | Issue No. | **110** |
| LM End | **4.24** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.208838 ° | 39.208838 ° |
| | | | | -121.985084 ° | -121.985084 ° |
| DWR ID | DWR_ST0003_01_s _ 2019_110 | | | | |

**Comment Code**

TR : Tree or limb

**Inspector Comment**

The large fallen tree should be removed from the waterside slope.

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.26** | Rating ** | M | Issue No. | **11** |
| LM End | **4.26** | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.208971 ° | 39.208971 ° |
| | | | | -121.985374 ° | -121.985374 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_11 | | | | |

**Comment Code**

BU : Building

**Inspector Comment**

Photo 1 of 1 : FA_2019_ST0003_264_11_20190822_00007.jpg

View of a trailer next to the waterside toe.

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.36** | Rating ** | C | Issue No. | **111** |
| LM End | **4.36** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.209652 ° | 39.209652 ° |
| | | | | -121.987011 ° | -121.987011 ° |
| DWR ID | DWR_ST0003_01_s _ 2019_111 | | | | |

**Comment Code**

MA : Material

**Inspector Comment**

The pipes and other materials should be removed from the landside toe.

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.44** | Rating ** | M | Issue No. | **186** |
| LM End | **4.44** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.210230 ° | 39.210230 ° |
| | | | | -121.988223 ° | -121.988223 ° |
| DWR ID | 17297 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17297
FS_ID:56042
EP_NO: 9501-A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, minor surface erosion present on the WS slope. Pipe system found on the WS appears to be abandoned. Need to audit record to determine current owner of pipe system. If pipe system is no longer in use owner will need to coordinate with the CVFPB to properly remove or abandon per Title 23 requirements. (O. Magana - DWR UCIP)08/30/2018 Same as last inspection, with no signs of any improvements made to pipe or pump. Vegetation obstructed full inspection at water level, but the levee looks in very good condition with no signs of threat. Downgrading to Non-Urgent from Urgent due to the good condition of the levee (D. Sanoski - DWR UCIP).04/24/2017 WS was mostly underwater during site visit. Not sure if the 10" pipe was still opened or capped on the WS end but no water appeared to be free flowing through the levee. No sign of orange pump. (DWR Sutter Yard-AFreitag)11/07/2016 Orange pump was not present at this inspection. 10" pipe penetration left opened on WS end. (DWR Sutter Yard- AFreitag)06/17/2016 Orange pump motor was lowered down the WS berm to water level and was pumping water through the pipe to the LS outlet. What is pictured in (photo#17 UCIP_Photos_No.75150) as "pipe debris" is the pipe section that is used to connect the orange pump to the open 10" pipe that penetrates the levee. In the same photo the "possible penetration" is the flexible suction line for the pump. (DWR Sutter Yard - afreitag)04/04/2016 Flow meter installed on LS indicates this pipe is used seasonally and not abandoned. Pipe open on WS (see photo). No cover on old siphon breaker. Slight sloughing of LS slope. (DWR UCIP - kfazel)04/06/2015 Pump disconnected and pulled up to WS toe. Not Sure if leaky valve has ever been fixed. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 Not an abandoned crossing. Pump is connected to WS pipe end at water level and is pumping water to LS and then goes underground to an irrigation ditch about 100yds. upstream. Pump and pipes are disconnected and pulled up to WS toe for high water season. Leaky valve on LS shoulder does not appear to have been fixed. (DWR Sutter Yard - afreitag)12/12/2012 Motor and pump on berm. Appears an abandoned crossing. Leaky valve on LS slope. Pipe removed and laying on berm. No electric connection to the pump. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 10-inch asphalt coated steel irrigation pipe through the levee, 5 feet below the crown. Siphon breaker off the landside (LS) shoulder. Motor and pump on the waterside (WS) at water level. The pipe is open through the WS slope with an air vent on the

Photo 1 of 3 : UCIP_FA_2019_56042_47068.jpg

Crown view: transverse cracks on levee road.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

apex of the pipe. Another piece of pipe, found laying on the WS slope in 2016, is used to connect the 10-inch open pipe to the pump at the water level. A flexible suction line for the pump found in the water above the pump and motor. Abandoned 16-inch crossing (DSID 17326) associated with this permit also at this location. Pipe through the LS slope is steel with polyvinyl chloride (PVC) pipe installed at its flange; PVC pipe partially penetrates the LS slope. Flow meter installed to PVC pipe section on LS. (Permit No. 9501-A, 1978 - Mayfair Packing, Inc.). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/30/2019 10:51:00 AM

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.44** | Rating ** | M | Issue No. | **186 (cont)** |
| LM End | **4.44** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_56042_47067.jpg

WS view: overview of pump and abandoned pipe

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.44** | Rating ** | M | Issue No. | **186 (cont)** |
| LM End | **4.44** | Issue Type + | En | Location * | |

Photo 3 of 3 : UCIP_FA_2019_56042_47066.jpg

WS view: pump motor on the berm (found at water level in 2016)

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.44** | Rating ** | M | Issue No. | **187** |
| LM End | **4.44** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.210230 ° | 39.210230 ° |
| | | | | -121.988223 ° | -121.988223 ° |
| DWR ID | 17326 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17326
FS_ID:56043
EP_NO: 9501
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 07/30/2019 Record remains Non-Urgent, pipe has been abandoned. Pipe system found on the WS appears to be abandoned. Need to audit record to determine current owner of pipe system. If pipe system is no longer in use owner will need to coordinate with the CVFPB to properly remove or abandon per Title 23 requirements. (O. Magana - DWR UCIP)08/30/2018 Same as last inspection. Needs to be abandoned properly; downgrading to Non-Urgent from Urgent (D. Sanoski - DWR UCIP).04/24/2017 Abandoned and needs to be done properly. (DWR Sutter Yard- AFreitag)11/07/2016 Abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)06/17/2016 Abandoned pipe. photo comments updated. (DWR Sutter Yard - afreitag)04/04/2016 Open on WS. Needs proper abandonment. Contact owner to determine status of crossing. (DWR UCIP - kfazel)04/06/2015 Same as last inspection. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/12/2012 Need to be properly abandoned. Transverse cracks on levee road.Also found a concrete outlet on LS. It is not clear whether this passes through the levee. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: *ABANDONED* 16-inch steel irrigation pipe, 13.9 feet below the crown. Gate valve and pump in pump house on the waterside (WS) berm. 2-3 inch electrical conduit penetrates levee alongside pipe. Flap gate and concrete distribution box on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9501, 1974 - Mayfair Farms, abandoned under Permit No. 9501-A, 1978 - MayFair Packing, Inc.). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.37)]
FS Date: 7/30/2019 10:52:00 AM

Photo 1 of 3 : UCIP_FA_2019_56043_47080.jpg

Crown view: cracks along pipe alignment (transverse crack)

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.44** | Rating ** | M | Issue No. | **187 (cont)** |
| LM End | **4.44** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.210230 ° | 39.210230 ° |
| | | | | -121.988223 ° | -121.988223 ° |
| DWR ID | 17326 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17326
FS_ID:56043
EP_NO: 9501
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 07/30/2019 Record remains Non-Urgent, pipe has been abandoned. Pipe system found on the WS appears to be abandoned. Need to audit record to determine current owner of pipe system. If pipe system is no longer in use owner will need to coordinate with the CVFPB to properly remove or abandon per Title 23 requirements. (O. Magana - DWR UCIP)08/30/2018 Same as last inspection. Needs to be abandoned properly; downgrading to Non-Urgent from Urgent (D. Sanoski - DWR UCIP).04/24/2017 Abandoned and needs to be done properly. (DWR Sutter Yard- AFreitag)11/07/2016 Abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)06/17/2016 Abandoned pipe. photo comments updated. (DWR Sutter Yard - afreitag)04/04/2016 Open on WS. Needs proper abandonment. Contact owner to determine status of crossing. (DWR UCIP - kfazel)04/06/2015 Same as last inspection. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/12/2012 Need to be properly abandoned. Transverse cracks on levee road.Also found a concrete outlet on LS. It is not clear whether this passes through the levee. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: *ABANDONED* 16-inch steel irrigation pipe, 13.9 feet below the crown. Gate valve and pump in pump house on the waterside (WS) berm. 2-3 inch electrical conduit penetrates levee alongside pipe. Flap gate and concrete distribution box on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9501, 1974 - Mayfair Farms, abandoned under Permit No. 9501-A, 1978 - MayFair Packing, Inc.). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.37)]
FS Date: 7/30/2019 10:52:00 AM

Photo 2 of 3 : UCIP_FA_2019_56043_47079.jpg

WS view: overview

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.44** | Rating ** | M | Issue No. | **187 (cont)** |
| LM End | **4.44** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.210230 ° | 39.210230 ° |
| | | | | -121.988223 ° | -121.988223 ° |
| DWR ID | 17326 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17326
FS_ID:56043
EP_NO: 9501
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 07/30/2019 Record remains Non-Urgent, pipe has been abandoned. Pipe system found on the WS appears to be abandoned. Need to audit record to determine current owner of pipe system. If pipe system is no longer in use owner will need to coordinate with the CVFPB to properly remove or abandon per Title 23 requirements. (O. Magana - DWR UCIP)08/30/2018 Same as last inspection. Needs to be abandoned properly; downgrading to Non-Urgent from Urgent (D. Sanoski - DWR UCIP).04/24/2017 Abandoned and needs to be done properly. (DWR Sutter Yard- AFreitag)11/07/2016 Abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)06/17/2016 Abandoned pipe. photo comments updated. (DWR Sutter Yard - afreitag)04/04/2016 Open on WS. Needs proper abandonment. Contact owner to determine status of crossing. (DWR UCIP - kfazel)04/06/2015 Same as last inspection. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/12/2012 Need to be properly abandoned. Transverse cracks on levee road.Also found a concrete outlet on LS. It is not clear whether this passes through the levee. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: *ABANDONED* 16-inch steel irrigation pipe, 13.9 feet below the crown. Gate valve and pump in pump house on the waterside (WS) berm. 2-3 inch electrical conduit penetrates levee alongside pipe. Flap gate and concrete distribution box on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9501, 1974 - Mayfair Farms, abandoned under Permit No. 9501-A, 1978 - MayFair Packing, Inc.). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.37)]
FS Date: 7/30/2019 10:52:00 AM

Photo 3 of 3 : UCIP_FA_2019_56043_47078.jpg

WS view: overview of pipe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.44** | Rating ** | M | Issue No. | **188** |
| LM End | **4.44** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.210280 ° | 39.210280 ° |
| | | | | -121.988284 ° | -121.988284 ° |
| DWR ID | 17484 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17484
FS_ID:56070
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, pipe has been abandoned. Pipe system found on the WS appears to be abandoned. Need to audit record to determine current owner of pipe system. If pipe system is no longer in use owner will need to coordinate with the CVFPB to properly remove or abandon per Title 23 requirements. (O. Magana - DWR UCIP)04/24/2017 Abandoned-needs to be done so properly. WS underwater during site visit. (DWR Sutter Yard- AFreitag)11/07/2016 Abandoned but needs to be done so properly. (DWR Sutter Yard- AFreitag)09/29/2016 Crossing has been downgraded from Urgent to Non-Urgent crossing is abandoned and WS surge box is full of debris. Need to contact owner and have owner coordinate with CVFPB to comply with Title 23. (DWR UCIP - omagana)06/17/2016 Abandoned crossing. Photo comments updated. (DWR Sutter Yard - afreitag)04/04/2016 Same as last inspection. (DWR UCIP - kfazel)04/06/2015 Crossing appears to be an old irrigation structure and not a drain pipe. It appears abandoned as WS surge box is full of debris. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/12/2012 Debris and deteriorated concrete. Gate valve in surge tank. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel irrigation pipe through the levee, invert 26 feet below the crown. Slide gate on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 4.37)].
FS Date: 7/30/2019 10:57:00 AM

Photo 1 of 3 : UCIP_FA_2019_56070_47087.jpg

Crown view: transverse crack on levee road

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.44** | Rating ** | M | Issue No. | **188 (cont)** |
| LM End | **4.44** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.210280 ° | 39.210280 ° |
| | | | | -121.988284 ° | -121.988284 ° |
| DWR ID | 17484 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17484
FS_ID:56070
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, pipe has been abandoned. Pipe system found on the WS appears to be abandoned. Need to audit record to determine current owner of pipe system. If pipe system is no longer in use owner will need to coordinate with the CVFPB to properly remove or abandon per Title 23 requirements. (O. Magana - DWR UCIP)04/24/2017 Abandoned-needs to be done so properly. WS underwater during site visit. (DWR Sutter Yard- AFreitag)11/07/2016 Abandoned but needs to be done so properly. (DWR Sutter Yard- AFreitag)09/29/2016 Crossing has been downgraded from Urgent to Non-Urgent crossing is abandoned and WS surge box is full of debris. Need to contact owner and have owner coordinate with CVFPB to comply with Title 23. (DWR UCIP - omagana)06/17/2016 Abandoned crossing. Photo comments updated. (DWR Sutter Yard - afreitag)04/04/2016 Same as last inspection. (DWR UCIP - kfazel)04/06/2015 Crossing appears to be an old irrigation structure and not a drain pipe. It appears abandoned as WS surge box is full of debris. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/12/2012 Debris and deteriorated concrete. Gate valve in surge tank. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel irrigation pipe through the levee, invert 26 feet below the crown. Slide gate on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 4.37)].
FS Date: 7/30/2019 10:57:00 AM

Photo 2 of 3 : UCIP_FA_2019_56070_47086.jpg

WS view: overview of concrete surge box

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

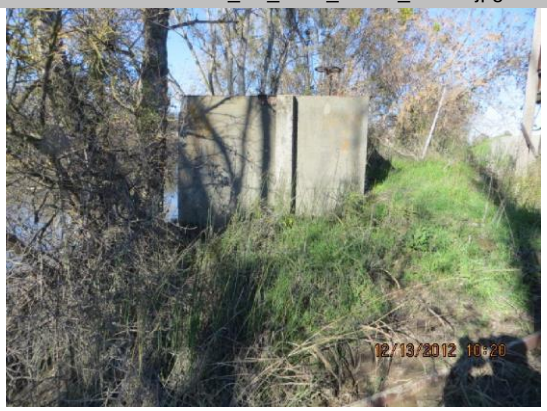
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.44** | Rating ** | M | Issue No. | **188 (cont)** |
| LM End | **4.44** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.210280 ° | 39.210280 ° |
| | | | | -121.988284 ° | -121.988284 ° |
| DWR ID | 17484 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17484
FS_ID:56070
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, pipe has been abandoned. Pipe system found on the WS appears to be abandoned. Need to audit record to determine current owner of pipe system. If pipe system is no longer in use owner will need to coordinate with the CVFPB to properly remove or abandon per Title 23 requirements. (O. Magana - DWR UCIP)04/24/2017 Abandoned-needs to be done so properly. WS underwater during site visit. (DWR Sutter Yard- AFreitag)11/07/2016 Abandoned but needs to be done so properly. (DWR Sutter Yard- AFreitag)09/29/2016 Crossing has been downgraded from Urgent to Non-Urgent crossing is abandoned and WS surge box is full of debris. Need to contact owner and have owner coordinate with CVFPB to comply with Title 23. (DWR UCIP - omagana)06/17/2016 Abandoned crossing. Photo comments updated. (DWR Sutter Yard - afreitag)04/04/2016 Same as last inspection. (DWR UCIP - kfazel)04/06/2015 Crossing appears to be an old irrigation structure and not a drain pipe. It appears abandoned as WS surge box is full of debris. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/12/2012 Debris and deteriorated concrete. Gate valve in surge tank. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel irrigation pipe through the levee, invert 26 feet below the crown. Slide gate on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 4.37)].
FS Date: 7/30/2019 10:57:00 AM

Photo 3 of 3 : UCIP_FA_2019_56070_47085.jpg




WS view: concrete surge box

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.64** | Rating ** | M | Issue No. | **189** |
| LM End | **4.64** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.212627 ° | 39.212627 ° |
| | | | | -121.990413 ° | -121.990413 ° |
| DWR ID | 17318 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17318
FS_ID:56027
EP_NO: 9501
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, cover to pipe is missing and poses a safety issue to levee inspectors and the public. Need to contact owner to obtain permit authorizing the modifications to this structure. Recommend auditing record to determine current owner and permit authorizing modifications to structure. (O. Magana - DWR UCIP)04/24/2017 LS shoulder erosion repaired. Not sure if any changes or repairs were done to the pipe itself. (DWR Sutter Yard- AFreitag)11/07/2016 LS erosion still a problem at the LS shoulder. (DWR Sutter Yard- AFreitag)06/06/2016 LS erosion still present and appears to be getting worse. It is only a few inches away from affecting the paved road way. (DWR Sutter Yard - afreitag)04/04/2016 Same as last inspection. Erosion problem is urgently in need of repair. (DWR UCIP - kfazel)04/06/2015 Erosion problem still present near the LS shoulder. If it gets any worse then it may start to affect the road way. Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 Erosion near LS shoulder may start affecting the roadway if it gets any worse.12/12/2012 Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 24-inch asphalt coated steel irrigation pipe, 4 feet below the crown. Slant pump on a steel platform on the waterside (WS) berm. Siphon breaker on the apex of the pipe and off the levee crown on the landside (LS). 2 shut-off (butterfly) valves off the LS toe. Power pole with electrical conduit and panel on the LS toe. Pipe appears to run diagonally through the levee and discharges into a ditch off the LS toe. Gate structure on the outlet at the ditch. (Automatic Board Order (ABO) issued as Permit No. 9501, 1974 - Mayfair Farms, Inc.). Slant pump installed under Permit No. 10935, 1975 - Pires. [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/30/2019 10:58:00 AM

Photo 1 of 3 : UCIP_FA_2019_56027_47092.jpg

WS view: overview

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.64** | Rating ** | M | Issue No. | **189 (cont)** |
| LM End | **4.64** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.212627 ° | 39.212627 ° |
| | | | | -121.990413 ° | -121.990413 ° |
| DWR ID | 17318 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17318
FS_ID:56027
EP_NO: 9501
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, cover to pipe is missing and poses a safety issue to levee inspectors and the public. Need to contact owner to obtain permit authorizing the modifications to this structure. Recommend auditing record to determine current owner and permit authorizing modifications to structure. (O. Magana - DWR UCIP)04/24/2017 LS shoulder erosion repaired. Not sure if any changes or repairs were done to the pipe itself. (DWR Sutter Yard- AFreitag)11/07/2016 LS erosion still a problem at the LS shoulder. (DWR Sutter Yard- AFreitag)06/06/2016 LS erosion still present and appears to be getting worse. It is only a few inches away from affecting the paved road way. (DWR Sutter Yard - afreitag)04/04/2016 Same as last inspection. Erosion problem is urgently in need of repair. (DWR UCIP - kfazel)04/06/2015 Erosion problem still present near the LS shoulder. If it gets any worse then it may start to affect the road way. Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 Erosion near LS shoulder may start affecting the roadway if it gets any worse.12/12/2012 Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 24-inch asphalt coated steel irrigation pipe, 4 feet below the crown. Slant pump on a steel platform on the waterside (WS) berm. Siphon breaker on the apex of the pipe and off the levee crown on the landside (LS). 2 shut-off (butterfly) valves off the LS toe. Power pole with electrical conduit and panel on the LS toe. Pipe appears to run diagonally through the levee and discharges into a ditch off the LS toe. Gate structure on the outlet at the ditch. (Automatic Board Order (ABO) issued as Permit No. 9501, 1974 - Mayfair Farms, Inc.). Slant pump installed under Permit No. 10935, 1975 - Pires. [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/30/2019 10:58:00 AM

Photo 2 of 3 : UCIP_FA_2019_56027_47091.jpg

WS view: overview of pump station

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.64** | Rating ** | M | Issue No. | **189 (cont)** |
| LM End | **4.64** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.212627 ° | 39.212627 ° |
| | | | | -121.990413 ° | -121.990413 ° |
| DWR ID | 17318 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17318
FS_ID:56027
EP_NO: 9501
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, cover to pipe is missing and poses a safety issue to levee inspectors and the public. Need to contact owner to obtain permit authorizing the modifications to this structure. Recommend auditing record to determine current owner and permit authorizing modifications to structure. (O. Magana - DWR UCIP)04/24/2017 LS shoulder erosion repaired. Not sure if any changes or repairs were done to the pipe itself. (DWR Sutter Yard- AFreitag)11/07/2016 LS erosion still a problem at the LS shoulder. (DWR Sutter Yard- AFreitag)06/06/2016 LS erosion still present and appears to be getting worse. It is only a few inches away from affecting the paved road way. (DWR Sutter Yard - afreitag)04/04/2016 Same as last inspection. Erosion problem is urgently in need of repair. (DWR UCIP - kfazel)04/06/2015 Erosion problem still present near the LS shoulder. If it gets any worse then it may start to affect the road way. Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 Erosion near LS shoulder may start affecting the roadway if it gets any worse.12/12/2012 Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 24-inch asphalt coated steel irrigation pipe, 4 feet below the crown. Slant pump on a steel platform on the waterside (WS) berm. Siphon breaker on the apex of the pipe and off the levee crown on the landside (LS). 2 shut-off (butterfly) valves off the LS toe. Power pole with electrical conduit and panel on the LS toe. Pipe appears to run diagonally through the levee and discharges into a ditch off the LS toe. Gate structure on the outlet at the ditch. (Automatic Board Order (ABO) issued as Permit No. 9501, 1974 - Mayfair Farms, Inc.). Slant pump installed under Permit No. 10935, 1975 - Pires. [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/30/2019 10:58:00 AM

Photo 3 of 3 : UCIP_FA_2019_56027_47096.jpg

WS view: inclined pipes

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.64** | Rating ** | M | Issue No. | **190** |
| LM End | **4.64** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.212650 ° | 39.212650 ° |
| | | | | -121.990442 ° | -121.990442 ° |
| DWR ID | 17316 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17316
FS_ID:56029
EP_NO: 14137
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, cover to pipe is missing and poses a safety issue to levee inspectors and the public. Need to contact owner to obtain permit authorizing the modifications to this structure. Recommend auditing record to determine current owner and permit authorizing modifications to structure. (O. Magana - DWR UCIP)04/24/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 No issues present.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 30-inch asphalt coated steel irrigation pipe through the levee, invert 4.5 feet below the crown. Inclined pump on the waterside (WS). Siphon breaker on the landside (LS). (Permit No. 14137, 1985 - Butte Creek Farms, Inc.). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/30/2019 10:59:00 AM

Photo 1 of 3 : UCIP_FA_2019_56029_47101.jpg

WS view: overview

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.64** | Rating ** | M | Issue No. | **190 (cont)** |
| LM End | **4.64** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_56029_47100.jpg

WS view: overview of pumping station

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.64** | Rating ** | M | Issue No. | **190 (cont)** |
| LM End | **4.64** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.212650 ° | 39.212650 ° |
| | | | | -121.990442 ° | -121.990442 ° |
| DWR ID | 17316 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17316
FS_ID:56029
EP_NO: 14137
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, cover to pipe is missing and poses a safety issue to levee inspectors and the public. Need to contact owner to obtain permit authorizing the modifications to this structure. Recommend auditing record to determine current owner and permit authorizing modifications to structure. (O. Magana - DWR UCIP)04/24/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/07/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition.04/06/2015 No issues present.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: 30-inch asphalt coated steel irrigation pipe through the levee, invert 4.5 feet below the crown. Inclined pump on the waterside (WS). Siphon breaker on the landside (LS). (Permit No. 14137, 1985 - Butte Creek Farms, Inc.). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/30/2019 10:59:00 AM

Photo 3 of 3 : UCIP_FA_2019_56029_47099.jpg

WS view: electric box for pump

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.74** | Rating ** | M | Issue No. | **105** |
| LM End | **4.84** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.213390 ° | 39.214107 ° |
| | | | | -121.991860 ° | -121.993489 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_105 | | | | |

**Comment Code**

V2 : Remove the wild growth other than native grasses from the levee slopes.

**Inspector Comment**

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.78** | Rating ** | M | Issue No. | **114** |
| LM End | **4.82** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.213741 ° | 39.214021 ° |
| | | | | -121.992495 ° | -121.993171 ° |
| DWR ID | DWR_ST0003_01_s _ 2019_114 | | | | |

**Comment Code**

V6 : Landscaping

**Inspector Comment**

The landscaping and fence should be removed from the landside toe.

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **4.85** | Rating ** | C | Issue No. | **115** |
| LM End | **4.85** | Issue Type + | En | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.214225 ° | 39.214225 ° |
| | | | | -121.993735 ° | -121.993735 ° |
| DWR ID | DWR_ST0003_01_s _ 2019_115 | | | | |

**Comment Code**

PR : Prunings

**Inspector Comment**

The prunings should be removed from the crown.

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.03** | Rating ** | M | Issue No. | **191** |
| LM End | **5.03** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.214949 ° | 39.214949 ° |
| | | | | -121.996980 ° | -121.996980 ° |
| DWR ID | 17287 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17287
FS_ID:55526
EP_NO: 9520
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, pipe has been abandoned. DWR DMP Geophysical Evaluation results indicate possible presence of pipe exists through levee. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Pipe will need to be removed or abandoned properly as required under Title 23. (O. Magana - DWR UCIP)04/24/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/07/2016 appears abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)06/06/2016 Appears to be an abandoned crossing.04/06/2015 Same as last inspection. Still appears abandoned. A concrete standpipe and a CMP riser on WS. It seems abandoned and if so should be done so properly.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 17 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. Pump on the WS bank and concrete standpipe on the WS berm, found in 2015. 18-inch concrete pipe from standpipe at WS toe. Pipe discharges into a field on the landside (LS), not found in 2015. (24-inch pipe [HLM 4.99] authorized under Automatic Board Order (ABO) issued as Permit No. 9520, 1974 - Arnold). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.99)].
FS Date: 7/30/2019 11:00:00 AM

Photo 1 of 3 : UCIP_FA_2019_55526_47107.jpg

WS view: overview

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.03** | Rating ** | M | Issue No. | **191 (cont)** |
| LM End | **5.03** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.214949 ° | 39.214949 ° |
| | | | | -121.996980 ° | -121.996980 ° |
| DWR ID | 17287 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17287
FS_ID:55526
EP_NO: 9520
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, pipe has been abandoned. DWR DMP Geophysical Evaluation results indicate possible presence of pipe exists through levee. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Pipe will need to be removed or abandoned properly as required under Title 23. (O. Magana - DWR UCIP)04/24/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/07/2016 appears abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)06/06/2016 Appears to be an abandoned crossing.04/06/2015 Same as last inspection. Still appears abandoned. A concrete standpipe and a CMP riser on WS. It seems abandoned and if so should be done so properly.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 17 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. Pump on the WS bank and concrete standpipe on the WS berm, found in 2015. 18-inch concrete pipe from standpipe at WS toe. Pipe discharges into a field on the landside (LS), not found in 2015. (24-inch pipe [HLM 4.99] authorized under Automatic Board Order (ABO) issued as Permit No. 9520, 1974 - Arnold). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.99)].
FS Date: 7/30/2019 11:00:00 AM

Photo 2 of 3 : UCIP_FA_2019_55526_47106.jpg

WS view: CMP riser with slide gate

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

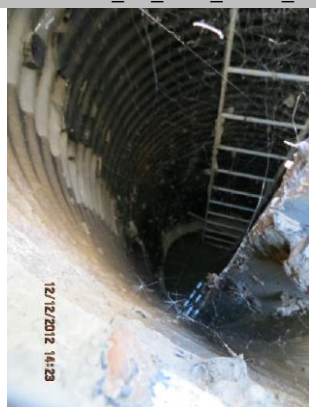
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.03** | Rating ** | M | Issue No. | **191 (cont)** |
| LM End | **5.03** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.214949 ° | 39.214949 ° |
| | | | | -121.996980 ° | -121.996980 ° |
| DWR ID | 17287 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17287
FS_ID:55526
EP_NO: 9520
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, pipe has been abandoned. DWR DMP Geophysical Evaluation results indicate possible presence of pipe exists through levee. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Pipe will need to be removed or abandoned properly as required under Title 23. (O. Magana - DWR UCIP)04/24/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/07/2016 appears abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)06/06/2016 Appears to be an abandoned crossing.04/06/2015 Same as last inspection. Still appears abandoned. A concrete standpipe and a CMP riser on WS. It seems abandoned and if so should be done so properly.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 17 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. Pump on the WS bank and concrete standpipe on the WS berm, found in 2015. 18-inch concrete pipe from standpipe at WS toe. Pipe discharges into a field on the landside (LS), not found in 2015. (24-inch pipe [HLM 4.99] authorized under Automatic Board Order (ABO) issued as Permit No. 9520, 1974 - Arnold). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.99)].
FS Date: 7/30/2019 11:00:00 AM

Photo 3 of 3 : UCIP_FA_2019_55526_47105.jpg




WS view: inside CMP riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.04** | Rating ** | M | Issue No. | **192** |
| LM End | **5.04** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.214954 ° | 39.214954 ° |
| | | | | -121.997014 ° | -121.997014 ° |
| DWR ID | 17288 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17288
FS_ID:55527
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, pipe has been abandoned. DWR DMP Geophysical Evaluation results indicate possible presence of pipe exists through levee. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Pipe will need to be removed or abandoned properly as required under Title 23. (O. Magana - DWR UCIP)04/24/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)11/07/2016 Appears abandoned, Should be done so properly. (DWR Sutter Yard- AFreitag)06/06/2016 Appears to be an abandoned crossing.04/04/2016 If abandoned, should be done so properly.04/06/2015 Same as last inspection. Only WS riser and slide gate found.Only a CMP riser with slide gate found on WS.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 13.8 feet below the crown, not found in 2015. Slide gate in a CMP riser on the waterside (WS) slope, found in 2015. Flap gate removed at the landside (LS) end. (Automatic Board Order (ABO) issued as Permit No. 9520, 1974 - Arnold). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.99)].
FS Date: 7/30/2019 11:00:00 AM

Photo 1 of 3 : UCIP_FA_2019_55527_47112.jpg

WS view: CMP riser with slide gate (right)

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.04** | Rating ** | M | Issue No. | **192 (cont)** |
| LM End | **5.04** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.214954 ° | 39.214954 ° |
| | | | | -121.997014 ° | -121.997014 ° |
| DWR ID | 17288 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17288
FS_ID:55527
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, pipe has been abandoned. DWR DMP Geophysical Evaluation results indicate possible presence of pipe exists through levee. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Pipe will need to be removed or abandoned properly as required under Title 23. (O. Magana - DWR UCIP)04/24/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)11/07/2016 Appears abandoned, Should be done so properly. (DWR Sutter Yard- AFreitag)06/06/2016 Appears to be an abandoned crossing.04/04/2016 If abandoned, should be done so properly.04/06/2015 Same as last inspection. Only WS riser and slide gate found.Only a CMP riser with slide gate found on WS.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 13.8 feet below the crown, not found in 2015. Slide gate in a CMP riser on the waterside (WS) slope, found in 2015. Flap gate removed at the landside (LS) end. (Automatic Board Order (ABO) issued as Permit No. 9520, 1974 - Arnold). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.99)].
FS Date: 7/30/2019 11:00:00 AM

Photo 2 of 3 : UCIP_FA_2019_55527_47111.jpg

WS view: CMP riser with slide gate

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.04** | Rating ** | M | Issue No. | **192 (cont)** |
| LM End | **5.04** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.214954 ° | 39.214954 ° |
| | | | | -121.997014 ° | -121.997014 ° |
| DWR ID | 17288 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17288
FS_ID:55527
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, pipe has been abandoned. DWR DMP Geophysical Evaluation results indicate possible presence of pipe exists through levee. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Pipe will need to be removed or abandoned properly as required under Title 23. (O. Magana - DWR UCIP)04/24/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)11/07/2016 Appears abandoned, Should be done so properly. (DWR Sutter Yard- AFreitag)06/06/2016 Appears to be an abandoned crossing.04/04/2016 If abandoned, should be done so properly.04/06/2015 Same as last inspection. Only WS riser and slide gate found.Only a CMP riser with slide gate found on WS.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 13.8 feet below the crown, not found in 2015. Slide gate in a CMP riser on the waterside (WS) slope, found in 2015. Flap gate removed at the landside (LS) end. (Automatic Board Order (ABO) issued as Permit No. 9520, 1974 - Arnold). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 4.99)].
FS Date: 7/30/2019 11:00:00 AM

Photo 3 of 3 : UCIP_FA_2019_55527_47110.jpg

LS view: overview- county road and road drainpipe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.04** | Rating ** | M | Issue No. | **193** |
| LM End | **5.04** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.214970 ° | 39.214970 ° |
| | | | | -121.997177 ° | -121.997177 ° |
| DWR ID | 17289 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17289
FS_ID:55529
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, pipe has been abandoned. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Pipe will need to be removed or abandoned properly as required under Title 23. (O. Magana - DWR UCIP)04/24/2017 Appears abandoned- needs to be done so properly. Sloughing still present near WS surge box. (DWR Sutter Yard- AFreitag)11/07/2016 Appears abandoned but needs to be done so properly. (DWR Sutter Yard- AFreitag)06/06/2016 Sink holes appear to have been repaired but there is still some minor sloughing around the WS surge box. Surge box was full of water at time of inspection and I could not see the pipe inside to see if it still looked corroded and rusty.04/04/2016 Could not find sink holes as in 07/2013 photo. Appears repaired, but sloughing still present around surge box. Need confirmation that pipe was abandoned properly.04/06/2015 Repairs are in progress to this crossing.Surge box on WS and distribution box across the county road on LS. Abandoned pump station and electrical panel on WS. A concrete pump pit on WS.06/30/2014 Sink hole near WS surge box is still present. Portable pumps were lowered down the WS bank and were pumping water directly into WS standpipe on to by pass the surge box.12/30/2013 Sink Hole above pipe on WS still present. Pipe end inside of WS surge box shows heavy signs of rust and corrosion. Recommend having an internal camera inspection completed on pipe.07/29/2013 Portable tow-pump lowered down WS berm to water level and is pumping water into concrete surge box on WS and the filling the irrigation ditch on LS. Sink hole with standing water that is present above the outlet pipe for the WS surge box. This may indicate a leaking pipe or cracked concrete.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal irrigation pipe through the levee, 18.4 feet below the crown, not found in 2016. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) shoulder, found in 2016. Pump and concrete pump pit on the WS bank, found in 2013. Concrete surge box on the WS berm, found in 2016. Pipe discharges into an irrigation ditch on the landside (LS). (Levee Log references Permit No. 2904, 1958 - Butte Creek Farms, Inc. This permit authorizes an existing pump house and makes no mention of this pipe and its appurtenances). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 5.00)]
FS Date: 7/30/2019 11:01:00 AM

Photo 1 of 3 : UCIP_FA_2019_55529_47115.jpg

WS view: overview

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.04** | Rating ** | M | Issue No. | **193 (cont)** |
| LM End | **5.04** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.214970 ° | 39.214970 ° |
| | | | | -121.997177 ° | -121.997177 ° |
| DWR ID | 17289 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17289
FS_ID:55529
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, pipe has been abandoned. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Pipe will need to be removed or abandoned properly as required under Title 23. (O. Magana - DWR UCIP)04/24/2017 Appears abandoned- needs to be done so properly. Sloughing still present near WS surge box. (DWR Sutter Yard- AFreitag)11/07/2016 Appears abandoned but needs to be done so properly. (DWR Sutter Yard- AFreitag)06/06/2016 Sink holes appear to have been repaired but there is still some minor sloughing around the WS surge box. Surge box was full of water at time of inspection and I could not see the pipe inside to see if it still looked corroded and rusty.04/04/2016 Could not find sink holes as in 07/2013 photo. Appears repaired, but sloughing still present around surge box. Need confirmation that pipe was abandoned properly.04/06/2015 Repairs are in progress to this crossing.Surge box on WS and distribution box across the county road on LS. Abandoned pump station and electrical panel on WS. A concrete pump pit on WS.06/30/2014 Sink hole near WS surge box is still present. Portable pumps were lowered down the WS bank and were pumping water directly into WS standpipe on to by pass the surge box.12/30/2013 Sink Hole above pipe on WS still present. Pipe end inside of WS surge box shows heavy signs of rust and corrosion. Recommend having an internal camera inspection completed on pipe.07/29/2013 Portable tow-pump lowered down WS berm to water level and is pumping water into concrete surge box on WS and the filling the irrigation ditch on LS. Sink hole with standing water that is present above the outlet pipe for the WS surge box. This may indicate a leaking pipe or cracked concrete.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal irrigation pipe through the levee, 18.4 feet below the crown, not found in 2016. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) shoulder, found in 2016. Pump and concrete pump pit on the WS bank, found in 2013. Concrete surge box on the WS berm, found in 2016. Pipe discharges into an irrigation ditch on the landside (LS). (Levee Log references Permit No. 2904, 1958 - Butte Creek Farms, Inc. This permit authorizes an existing pump house and makes no mention of this pipe and its appurtenances). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 5.00)]
FS Date: 7/30/2019 11:01:00 AM

Photo 2 of 3 : UCIP_FA_2019_55529_47113.jpg

WS view: CMP riser and surge box

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.04** | Rating ** | M | Issue No. | **193 (cont)** |
| LM End | **5.04** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.214970 ° | 39.214970 ° |
| | | | | -121.997177 ° | -121.997177 ° |
| DWR ID | 17289 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17289
FS_ID:55529
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, pipe has been abandoned. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Pipe will need to be removed or abandoned properly as required under Title 23. (O. Magana - DWR UCIP)04/24/2017 Appears abandoned- needs to be done so properly. Sloughing still present near WS surge box. (DWR Sutter Yard- AFreitag)11/07/2016 Appears abandoned but needs to be done so properly. (DWR Sutter Yard- AFreitag)06/06/2016 Sink holes appear to have been repaired but there is still some minor sloughing around the WS surge box. Surge box was full of water at time of inspection and I could not see the pipe inside to see if it still looked corroded and rusty.04/04/2016 Could not find sink holes as in 07/2013 photo. Appears repaired, but sloughing still present around surge box. Need confirmation that pipe was abandoned properly.04/06/2015 Repairs are in progress to this crossing.Surge box on WS and distribution box across the county road on LS. Abandoned pump station and electrical panel on WS. A concrete pump pit on WS.06/30/2014 Sink hole near WS surge box is still present. Portable pumps were lowered down the WS bank and were pumping water directly into WS standpipe on to by pass the surge box.12/30/2013 Sink Hole above pipe on WS still present. Pipe end inside of WS surge box shows heavy signs of rust and corrosion. Recommend having an internal camera inspection completed on pipe.07/29/2013 Portable tow-pump lowered down WS berm to water level and is pumping water into concrete surge box on WS and the filling the irrigation ditch on LS. Sink hole with standing water that is present above the outlet pipe for the WS surge box. This may indicate a leaking pipe or cracked concrete.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal irrigation pipe through the levee, 18.4 feet below the crown, not found in 2016. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) shoulder, found in 2016. Pump and concrete pump pit on the WS bank, found in 2013. Concrete surge box on the WS berm, found in 2016. Pipe discharges into an irrigation ditch on the landside (LS). (Levee Log references Permit No. 2904, 1958 - Butte Creek Farms, Inc. This permit authorizes an existing pump house and makes no mention of this pipe and its appurtenances). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 5.00)]
FS Date: 7/30/2019 11:01:00 AM

Photo 3 of 3 : UCIP_FA_2019_55529_47114.jpg

WS view: closer look at surge box

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.05** | Rating ** | M | Issue No. | **194** |
| LM End | **5.05** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.214986 ° | 39.214986 ° |
| | | | | -121.997371 ° | -121.997371 ° |
| DWR ID | 17290 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17290
FS_ID:56032
EP_NO: 9530
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/30/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been abandoned. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Pipe will need to be removed or abandoned properly as required under Title 23. Need to audit record to clarify owner for this pipe. (O. Magana - DWR UCIP)04/24/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/07/2016 Abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)06/06/2016 Appears to be an abandoned crossing. Only the riser was found on the WS.04/06/2015 Same as last inspection. Only cmp riser found of WS.Only CMP riser found on WS. Buried/blocked culvert found across county road.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 16-inch concrete encased steel irrigation pipe through the levee, 12 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. Pump on the WS bank, not found in 2015. Switch panel on the WS berm. Landside (LS) end of the pipe crosses through a 4-foot by 4-foot concrete box culvert under the county road. (16-inch pipe [HLM 5.01] authorized under Automatic Board Order (ABO) issued as Permit No. 9530, 1974 - Halsey). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 5.01)].
FS Date: 7/30/2019 11:03:00 AM

Photo 1 of 3 : UCIP_FA_2019_56032_47123.jpg

Crown view: overview of both sides of the levee

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.05** | Rating ** | M | Issue No. | **194 (cont)** |
| LM End | **5.05** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.214986 ° | 39.214986 ° |
| | | | | -121.997371 ° | -121.997371 ° |
| DWR ID | 17290 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17290
FS_ID:56032
EP_NO: 9530
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/30/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been abandoned. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Pipe will need to be removed or abandoned properly as required under Title 23. Need to audit record to clarify owner for this pipe. (O. Magana - DWR UCIP)04/24/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/07/2016 Abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)06/06/2016 Appears to be an abandoned crossing. Only the riser was found on the WS.04/06/2015 Same as last inspection. Only cmp riser found of WS.Only CMP riser found on WS. Buried/blocked culvert found across county road.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 16-inch concrete encased steel irrigation pipe through the levee, 12 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. Pump on the WS bank, not found in 2015. Switch panel on the WS berm. Landside (LS) end of the pipe crosses through a 4-foot by 4-foot concrete box culvert under the county road. (16-inch pipe [HLM 5.01] authorized under Automatic Board Order (ABO) issued as Permit No. 9530, 1974 - Halsey). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 5.01)].
FS Date: 7/30/2019 11:03:00 AM

Photo 2 of 3 : UCIP_FA_2019_56032_47122.jpg

WS view: CMP riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.05** | Rating ** | M | Issue No. | **194 (cont)** |
| LM End | **5.05** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.214986 ° | 39.214986 ° |
| | | | | -121.997371 ° | -121.997371 ° |
| DWR ID | 17290 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17290
FS_ID:56032
EP_NO: 9530
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/30/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been abandoned. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Pipe will need to be removed or abandoned properly as required under Title 23. Need to audit record to clarify owner for this pipe. (O. Magana - DWR UCIP)04/24/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/07/2016 Abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)06/06/2016 Appears to be an abandoned crossing. Only the riser was found on the WS.04/06/2015 Same as last inspection. Only cmp riser found of WS.Only CMP riser found on WS. Buried/blocked culvert found across county road.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 16-inch concrete encased steel irrigation pipe through the levee, 12 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. Pump on the WS bank, not found in 2015. Switch panel on the WS berm. Landside (LS) end of the pipe crosses through a 4-foot by 4-foot concrete box culvert under the county road. (16-inch pipe [HLM 5.01] authorized under Automatic Board Order (ABO) issued as Permit No. 9530, 1974 - Halsey). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 5.01)].
FS Date: 7/30/2019 11:03:00 AM

Photo 3 of 3 : UCIP_FA_2019_56032_47125.jpg

WS view: berm and bank

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.15** | Rating ** | M | Issue No. | **195** |
| LM End | **5.15** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.215409 ° | 39.215409 ° |
| | | | | -121.999061 ° | -121.999061 ° |
| DWR ID | 17291 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17291
FS_ID:55532
EP_NO: 4091
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, pipe has been abandoned. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Pipe will need to be removed or abandoned properly as required under Title 23. (O. Magana - DWR UCIP)04/24/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/07/2016 Abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)06/06/2016 Appears to be an abandoned crossing. WS was to over grown with vegetation to access the area where the WS pump structure was previously found.04/06/2015 Same as last inspection. Crossing appears abandoned. Appears abandoned and if so should be done so properly. No Siphon breaker found on LS.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 8-inch asphalt coated steel irrigation pipe through the levee, 4 feet below the crown. Pump on the waterside (WS) bank. Gate valve in a concrete pipe riser on the WS shoulder. (Permit No. 4091, 1962 - Halsey, Yerxa). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/30/2019 11:04:00 AM

Photo 1 of 3 : UCIP_FA_2019_55532_47127.jpg

WS view: concrete pipe riser with gate valve

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.15** | Rating ** | M | Issue No. | **195 (cont)** |
| LM End | **5.15** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.215409 ° | 39.215409 ° |
| | | | | -121.999061 ° | -121.999061 ° |
| DWR ID | 17291 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17291
FS_ID:55532
EP_NO: 4091
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, pipe has been abandoned. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Pipe will need to be removed or abandoned properly as required under Title 23. (O. Magana - DWR UCIP)04/24/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/07/2016 Abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)06/06/2016 Appears to be an abandoned crossing. WS was to over grown with vegetation to access the area where the WS pump structure was previously found.04/06/2015 Same as last inspection. Crossing appears abandoned. Appears abandoned and if so should be done so properly. No Siphon breaker found on LS.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 8-inch asphalt coated steel irrigation pipe through the levee, 4 feet below the crown. Pump on the waterside (WS) bank. Gate valve in a concrete pipe riser on the WS shoulder. (Permit No. 4091, 1962 - Halsey, Yerxa). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/30/2019 11:04:00 AM

Photo 2 of 3 : UCIP_FA_2019_55532_47126.jpg

WS view: burried gate valve in concrete pipe riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.15** | Rating ** | M | Issue No. | **195 (cont)** |
| LM End | **5.15** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.215409 ° | 39.215409 ° |
| | | | | -121.999061 ° | -121.999061 ° |
| DWR ID | 17291 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17291
FS_ID:55532
EP_NO: 4091
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/30/2019 Record remains Non-Urgent, pipe has been abandoned. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Pipe will need to be removed or abandoned properly as required under Title 23. (O. Magana - DWR UCIP)04/24/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/07/2016 Abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)06/06/2016 Appears to be an abandoned crossing. WS was to over grown with vegetation to access the area where the WS pump structure was previously found.04/06/2015 Same as last inspection. Crossing appears abandoned. Appears abandoned and if so should be done so properly. No Siphon breaker found on LS.06/30/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 8-inch asphalt coated steel irrigation pipe through the levee, 4 feet below the crown. Pump on the waterside (WS) bank. Gate valve in a concrete pipe riser on the WS shoulder. (Permit No. 4091, 1962 - Halsey, Yerxa). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/30/2019 11:04:00 AM

Photo 3 of 3 : UCIP_FA_2019_55532_47128.jpg

LS view: overview

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.26** | Rating ** | M | Issue No. | **196** |
| LM End | **5.26** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.216181 ° | 39.216181 ° |
| | | | | -122.000784 ° | -122.000784 ° |
| DWR ID | 17292 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17292
FS_ID:55533
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent, pipe has been abandoned. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Pipe will need to be removed or abandoned properly as required under Title 23. No permit has been identified authorizing this pipe. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned pipe. (DWR Sutter Yard- Afreitag)06/06/2016 Pipe was internally cleaned and camera inspected on 11/23/2015 by Norcal Pipe Line Services. 80.4 ft of the pipe (starting at the WS end) were inspected to get us through the levee prism but the LS end was never reached or found. Pipe showed some signs of rusting but no visible holes or deformations were found. After the inspection the WS end was capped and reburied until further abandonment can be achieved.04/01/2015 Same as last inspection. Pipe has been selected to be dug up and camera inspected.Only CMP riser with slide gate found on WS.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 15.8 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. Levee Log states that the pipe is plugged on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 5.21)].
FS Date: 7/31/2019 8:02:00 AM

Photo 1 of 3 : UCIP_FA_2019_55533_47132.jpg

WS view: overview

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.26** | Rating ** | M | Issue No. | **196 (cont)** |
| LM End | **5.26** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.216181 ° | 39.216181 ° |
| | | | | -122.000784 ° | -122.000784 ° |
| DWR ID | 17292 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17292
FS_ID:55533
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent, pipe has been abandoned. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Pipe will need to be removed or abandoned properly as required under Title 23. No permit has been identified authorizing this pipe. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned pipe. (DWR Sutter Yard- Afreitag)06/06/2016 Pipe was internally cleaned and camera inspected on 11/23/2015 by Norcal Pipe Line Services. 80.4 ft of the pipe (starting at the WS end) were inspected to get us through the levee prism but the LS end was never reached or found. Pipe showed some signs of rusting but no visible holes or deformations were found. After the inspection the WS end was capped and reburied until further abandonment can be achieved.04/01/2015 Same as last inspection. Pipe has been selected to be dug up and camera inspected.Only CMP riser with slide gate found on WS.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 15.8 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. Levee Log states that the pipe is plugged on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 5.21)].
FS Date: 7/31/2019 8:02:00 AM

Photo 2 of 3 : UCIP_FA_2019_55533_47131.jpg

WS view: CMP riser with slide gate

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.26** | Rating ** | M | Issue No. | **196 (cont)** |
| LM End | **5.26** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.216181 ° | 39.216181 ° |
| | | | | -122.000784 ° | -122.000784 ° |
| DWR ID | 17292 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17292
FS_ID:55533
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent, pipe has been abandoned. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Pipe will need to be removed or abandoned properly as required under Title 23. No permit has been identified authorizing this pipe. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned pipe. (DWR Sutter Yard- Afreitag)06/06/2016 Pipe was internally cleaned and camera inspected on 11/23/2015 by Norcal Pipe Line Services. 80.4 ft of the pipe (starting at the WS end) were inspected to get us through the levee prism but the LS end was never reached or found. Pipe showed some signs of rusting but no visible holes or deformations were found. After the inspection the WS end was capped and reburied until further abandonment can be achieved.04/01/2015 Same as last inspection. Pipe has been selected to be dug up and camera inspected.Only CMP riser with slide gate found on WS.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 15.8 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. Levee Log states that the pipe is plugged on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 5.21)].
FS Date: 7/31/2019 8:02:00 AM

Photo 3 of 3 : UCIP_FA_2019_55533_47130.jpg

LS view: overview (no pipe)

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.32** | Rating ** | M | Issue No. | **102** |
| LM End | **5.32** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.216516 ° | 39.216516 ° |
| | | | | -122.001852 ° | -122.001852 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_102 | | | | |

**Comment Code**

EQ : Equipment

**Inspector Comment**

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.42** | Rating ** | M | Issue No. | **87** |
| LM End | **5.42** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.217017 ° | 39.217017 ° |
| | | | | -122.003527 ° | -122.003527 ° |
| DWR ID | DWR_ST0003_01_f _ 2018_87 | | | | |

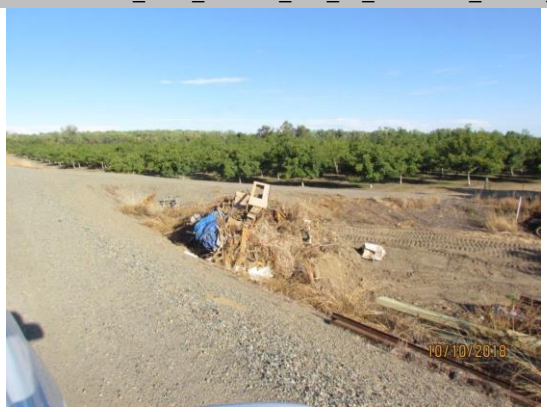
**Comment Code**

DE : Debris

**Inspector Comment**

Remove the prunings and garbage from the landside toe.

Photo 1 of 1 : FA_2019_ST0003_264_87_20190822_00018.jpg




View of the prunings and garbage along the landside toe.

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.42** | Rating ** | C | Issue No. | **100** |
| LM End | **5.42** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.217047 ° | 39.217047 ° |
| | | | | -122.003632 ° | -122.003632 ° |
| DWR ID | DWR_ST0003_01_s _ 2019_100 | | | | |

**Comment Code**

EQ : Equipment

**Inspector Comment**

Equipment and materials should be removed from the landside toe.

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.43** | Rating ** | M | Issue No. | **197** |
| LM End | **5.43** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.217099 ° | 39.217099 ° |
| | | | | -122.003778 ° | -122.003778 ° |
| DWR ID | 17293 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17293
FS_ID:55534
EP_NO: 9514
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been modified. No permit was found authorizing modifications to pipe. Need to contact owner to determine permit authorizing medications to pipe. Recommend auditing ABO to confirm owner. (O. Magana - DWR UCIP)04/19/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/31/2016 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)06/06/2016 New shut off valve was installed on the pvc pipe inside of the WS standpipe and the slide gate there was removed.04/04/2016 Annular space between sleeved pipe and CMP has been grouted. 04/01/2015 PVC pipe still runs through crossing. WS end has been covered and blocked with sandbags to prevent water flow during high water season.06/30/2014 Same as last inspection.- Water transfer ditch and CMP riser on WS12/18/2013 Same as last inspection. Levee inspections is working with land owner to solve this issue.07/23/2013 8inch pvc running through pipe preventing slide gate from closing. No positive pipe closure for high water season. Stem on WS screw gate is bent.
FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, invert 11 ft below the crown. 8-inch polyvinyl chloride (PVC) pipe sleeved through the 24-inch corrugated metal pipe (CMP) with the annular space grouted. Slide gate in a CMP riser on the waterside (WS) slope. Concrete headwall on the WS berm, pump on the WS bank. Discharges into a field at the landside (LS) toe. Irrigation ditch across WS berm to headwall. (Automatic Board Order (ABO) issued as Permit No. 9514, 1974 - Boggs). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 5.39)]
FS Date: 7/31/2019 8:07:00 AM

Photo 1 of 3 : UCIP_FA_2019_55534_47136.jpg

WS view: CMP riser with slide gate

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

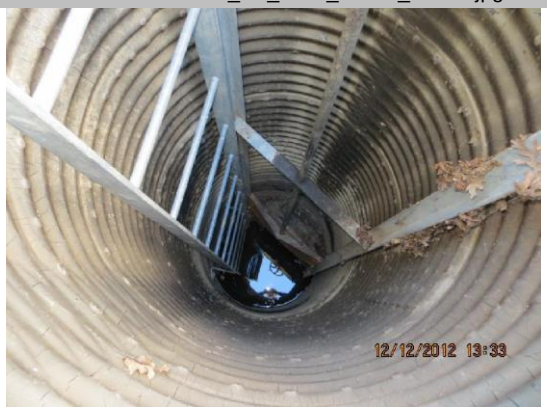
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.43** | Rating ** | M | Issue No. | **197 (cont)** |
| LM End | **5.43** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.217099 ° | 39.217099 ° |
| | | | | -122.003778 ° | -122.003778 ° |
| DWR ID | 17293 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17293
FS_ID:55534
EP_NO: 9514
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been modified. No permit was found authorizing modifications to pipe. Need to contact owner to determine permit authorizing medications to pipe. Recommend auditing ABO to confirm owner. (O. Magana - DWR UCIP)04/19/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/31/2016 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)06/06/2016 New shut off valve was installed on the pvc pipe inside of the WS standpipe and the slide gate there was removed.04/04/2016 Annular space between sleeved pipe and CMP has been grouted. 04/01/2015 PVC pipe still runs through crossing. WS end has been covered and blocked with sandbags to prevent water flow during high water season.06/30/2014 Same as last inspection.- Water transfer ditch and CMP riser on WS12/18/2013 Same as last inspection. Levee inspections is working with land owner to solve this issue.07/23/2013 8inch pvc running through pipe preventing slide gate from closing. No positive pipe closure for high water season. Stem on WS screw gate is bent.
FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, invert 11 ft below the crown. 8-inch polyvinyl chloride (PVC) pipe sleeved through the 24-inch corrugated metal pipe (CMP) with the annular space grouted. Slide gate in a CMP riser on the waterside (WS) slope. Concrete headwall on the WS berm, pump on the WS bank. Discharges into a field at the landside (LS) toe. Irrigation ditch across WS berm to headwall. (Automatic Board Order (ABO) issued as Permit No. 9514, 1974 - Boggs). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 5.39)]
FS Date: 7/31/2019 8:07:00 AM

Photo 2 of 3 : UCIP_FA_2019_55534_47135.jpg




WS view: inside CMP riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.43** | Rating ** | M | Issue No. | **197 (cont)** |
| LM End | **5.43** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.217099 ° | 39.217099 ° |
| | | | | -122.003778 ° | -122.003778 ° |
| DWR ID | 17293 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17293
FS_ID:55534
EP_NO: 9514
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been modified. No permit was found authorizing modifications to pipe. Need to contact owner to determine permit authorizing medications to pipe. Recommend auditing ABO to confirm owner. (O. Magana - DWR UCIP)04/19/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/31/2016 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)06/06/2016 New shut off valve was installed on the pvc pipe inside of the WS standpipe and the slide gate there was removed.04/04/2016 Annular space between sleeved pipe and CMP has been grouted. 04/01/2015 PVC pipe still runs through crossing. WS end has been covered and blocked with sandbags to prevent water flow during high water season.06/30/2014 Same as last inspection.- Water transfer ditch and CMP riser on WS12/18/2013 Same as last inspection. Levee inspections is working with land owner to solve this issue.07/23/2013 8inch pvc running through pipe preventing slide gate from closing. No positive pipe closure for high water season. Stem on WS screw gate is bent.
FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, invert 11 ft below the crown. 8-inch polyvinyl chloride (PVC) pipe sleeved through the 24-inch corrugated metal pipe (CMP) with the annular space grouted. Slide gate in a CMP riser on the waterside (WS) slope. Concrete headwall on the WS berm, pump on the WS bank. Discharges into a field at the landside (LS) toe. Irrigation ditch across WS berm to headwall. (Automatic Board Order (ABO) issued as Permit No. 9514, 1974 - Boggs). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 5.39)]
FS Date: 7/31/2019 8:07:00 AM

Photo 3 of 3 : UCIP_FA_2019_55534_47134.jpg

WS view: water transfer ditch

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **5.91** | Rating ** | C | Issue No. | **116** |
| LM End | **5.91** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 39.220711 ° | 39.220711 ° |
| | | | | -122.005703 ° | -122.005703 ° |
| DWR ID | DWR_ST0003_01_s _ 2019_116 | | | | |

**Comment Code**

T1 : Trim trees to at least five feet above ground level.

**Inspector Comment**

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **6.08** | Rating ** | M | Issue No. | **198** |
| LM End | **6.08** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.220701 ° | 39.220701 ° |
| | | | | -122.002538 ° | -122.002538 ° |
| DWR ID | 17294 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17294
FS_ID:55535
EP_NO: 9514
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been modified. No permit was found authorizing modifications to 30-inch pipe. Need to contact owner to determine permit authorizing medications to pipe. Recommend auditing ABO to confirm owner. (O. Magana - DWR UCIP)04/19/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/31/2016 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)06/01/2016 Slide gate was removed from the WS riser and the riser was then filled up with concrete as the rest of the 36" cmp was pressure grouted.04/04/2016 Void between new 8-inch pipe and 36-inch pipe has been filled with concrete.04/01/2015 PVC pipe still runs through crossing. WS end has been covered and blocked with sandbags to prevent water flow during high water season. 36-inch CMP found instead of 30-inch CMP. LS pipe tampered.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection. Levee inspections is working with land owner to solve the issue.07/23/2013 8inch PVC pipe ran through 36inch CMP preventing screw gate from closing for high water season.
FIELD_STRUCT_DESC: 36-inch (not 30-inch as noted in the Levee Log, O&M Manual, or Automatic Board Order) corrugated metal irrigation pipe through the levee, 12 feet below the crown. 8-inch polyvinyl chloride (PVC) pipe sleeved through the 36-inch pipe with the annular space grouted. Slide gate (removed in 2016) in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Well structure off landside (LS) toe possibly associated with this pipe. (Automatic Board Order (ABO) issued as Permit No. 9514, 1974 - Boggs). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136 (HLM 6.05)].
FS Date: 7/31/2019 8:07:00 AM

Photo 1 of 3 : UCIP_FA_2019_55535_47149.jpg

WS view: overview

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **6.08** | Rating ** | M | Issue No. | **198 (cont)** |
| LM End | **6.08** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.220701 ° | 39.220701 ° |
| | | | | -122.002538 ° | -122.002538 ° |
| DWR ID | 17294 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17294
FS_ID:55535
EP_NO: 9514
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been modified. No permit was found authorizing modifications to 30-inch pipe. Need to contact owner to determine permit authorizing medications to pipe. Recommend auditing ABO to confirm owner. (O. Magana - DWR UCIP)04/19/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/31/2016 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)06/01/2016 Slide gate was removed from the WS riser and the riser was then filled up with concrete as the rest of the 36" cmp was pressure grouted.04/04/2016 Void between new 8-inch pipe and 36-inch pipe has been filled with concrete.04/01/2015 PVC pipe still runs through crossing. WS end has been covered and blocked with sandbags to prevent water flow during high water season. 36-inch CMP found instead of 30-inch CMP. LS pipe tampered.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection. Levee inspections is working with land owner to solve the issue.07/23/2013 8inch PVC pipe ran through 36inch CMP preventing screw gate from closing for high water season.
FIELD_STRUCT_DESC: 36-inch (not 30-inch as noted in the Levee Log, O&M Manual, or Automatic Board Order) corrugated metal irrigation pipe through the levee, 12 feet below the crown. 8-inch polyvinyl chloride (PVC) pipe sleeved through the 36-inch pipe with the annular space grouted. Slide gate (removed in 2016) in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Well structure off landside (LS) toe possibly associated with this pipe. (Automatic Board Order (ABO) issued as Permit No. 9514, 1974 - Boggs). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136 (HLM 6.05)].
FS Date: 7/31/2019 8:07:00 AM

Photo 2 of 3 : UCIP_FA_2019_55535_47147.jpg

WS view: CMP riser with slide gate

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **6.08** | Rating ** | M | Issue No. | **198 (cont)** |
| LM End | **6.08** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.220701 ° | 39.220701 ° |
| | | | | -122.002538 ° | -122.002538 ° |
| DWR ID | 17294 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17294
FS_ID:55535
EP_NO: 9514
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been modified. No permit was found authorizing modifications to 30-inch pipe. Need to contact owner to determine permit authorizing medications to pipe. Recommend auditing ABO to confirm owner. (O. Magana - DWR UCIP)04/19/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/31/2016 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)06/01/2016 Slide gate was removed from the WS riser and the riser was then filled up with concrete as the rest of the 36" cmp was pressure grouted.04/04/2016 Void between new 8-inch pipe and 36-inch pipe has been filled with concrete.04/01/2015 PVC pipe still runs through crossing. WS end has been covered and blocked with sandbags to prevent water flow during high water season. 36-inch CMP found instead of 30-inch CMP. LS pipe tampered.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection. Levee inspections is working with land owner to solve the issue.07/23/2013 8inch PVC pipe ran through 36inch CMP preventing screw gate from closing for high water season.
FIELD_STRUCT_DESC: 36-inch (not 30-inch as noted in the Levee Log, O&M Manual, or Automatic Board Order) corrugated metal irrigation pipe through the levee, 12 feet below the crown. 8-inch polyvinyl chloride (PVC) pipe sleeved through the 36-inch pipe with the annular space grouted. Slide gate (removed in 2016) in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Well structure off landside (LS) toe possibly associated with this pipe. (Automatic Board Order (ABO) issued as Permit No. 9514, 1974 - Boggs). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136 (HLM 6.05)].
FS Date: 7/31/2019 8:07:00 AM

Photo 3 of 3 : UCIP_FA_2019_55535_47148.jpg

WS view: inside CMP riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **6.38** | Rating ** | M | Issue No. | **118** |
| LM End | **6.38** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.223555 ° | 39.223555 ° |
| | | | | -121.999035 ° | -121.999035 ° |
| DWR ID | DWR_ST0003_01_s _ 2017_118 | | | | |

**Comment Code**

PR : Prunings

**Inspector Comment**

Remove the prunings from the landside toe.

Photo 1 of 1 : FA_2019_ST0003_264_118_20190822_00033.jpg

View of the prunings at the landside toe.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **6.40** | Rating ** | M | Issue No. | **199** |
| LM End | **6.40** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.223796 ° | 39.223796 ° |
| | | | | -121.999014 ° | -121.999014 ° |
| DWR ID | 17306 | | | | |

**Comment Code**

**Inspector Comment**

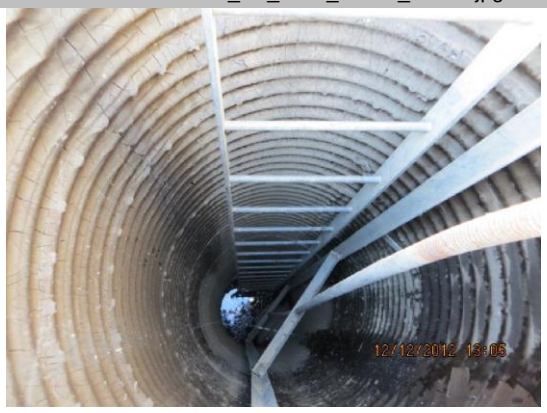
DS_ID:17306
FS_ID:55536
EP_NO: 9530
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent, pipe has been abandoned. DWR DMP Geophysical Evaluation results indicate possible presence of pipe exists through levee. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. (O. Magana - DWR UCIP)04/16/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- Afreitag)06/01/2016 Appears to be an abandoned crossing. WS end is about 90% buried with soil and the LS end is still unknown.04/01/2015 WS pipe end 3/4 blocked by soil. LS end is still unknown.Pipe outlet on WS partially buried, it needs cleaning.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection
FIELD_STRUCT_DESC: *ABANDONED* 30-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. (30-inch pipe [HLM 6.37] authorized under Automatic Board Order (ABO) issued as Permit No. 9530, 1974 - Halsey). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/31/2019 8:08:00 AM

Photo 1 of 3 : UCIP_FA_2019_55536_47158.jpg

WS view: CMP riser with slide gate

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **6.40** | Rating ** | M | Issue No. | **199 (cont)** |
| LM End | **6.40** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_55536_47156.jpg




WS view: inside CMP riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **6.40** | Rating ** | M | Issue No. | **199 (cont)** |
| LM End | **6.40** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.223796 ° | 39.223796 ° |
| | | | | -121.999014 ° | -121.999014 ° |
| DWR ID | 17306 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17306
FS_ID:55536
EP_NO: 9530
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent, pipe has been abandoned. DWR DMP Geophysical Evaluation results indicate possible presence of pipe exists through levee. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. (O. Magana - DWR UCIP)04/16/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- Afreitag)06/01/2016 Appears to be an abandoned crossing. WS end is about 90% buried with soil and the LS end is still unknown.04/01/2015 WS pipe end 3/4 blocked by soil. LS end is still unknown.Pipe outlet on WS partially buried, it needs cleaning.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection
FIELD_STRUCT_DESC: *ABANDONED* 30-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. (30-inch pipe [HLM 6.37] authorized under Automatic Board Order (ABO) issued as Permit No. 9530, 1974 - Halsey). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/31/2019 8:08:00 AM

Photo 3 of 3 : UCIP_FA_2019_55536_47157.jpg

WS view: partially burried steel pipe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **6.44** | Rating ** | M | Issue No. | **152** |
| LM End | **6.44** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.224310 ° | 39.224310 ° |
| | | | | -121.998811 ° | -121.998811 ° |
| DWR ID | DWR_ST0003_01_f _ 2019_152 | | | | |

**Comment Code**

PR : Prunings

**Inspector Comment**

Photo 1 of 1 : FA_2019_ST0003_264_152_20191017_00242.jpg

View of the prunings and debris at the landside toe. Fall 2019.

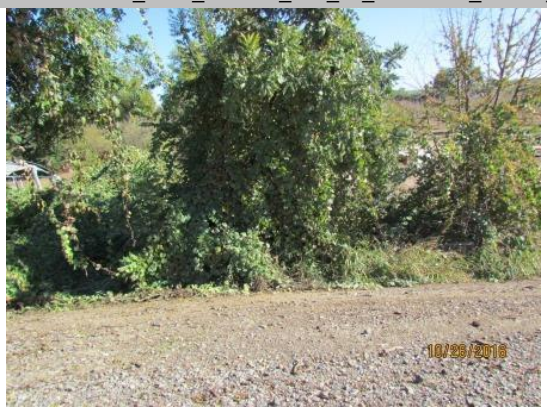
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **6.47** | Rating ** | M | Issue No. | **99** |
| LM End | **6.47** | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 39.224719 ° | 39.224719 ° |
| | | | | -121.998623 ° | -121.998623 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_99 | | | | |

**Comment Code**

T1 : Trim trees to at least five feet above ground level.

**Inspector Comment**

Photo 1 of 1 : FA_2019_ST0003_264_99_20190822_00025.jpg



View of the overgrown vegetation along the landside slope.

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **6.48** | Rating ** | M | Issue No. | **117** |
| LM End | **6.48** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.224973 ° | 39.224973 ° |
| | | | | -121.998680 ° | -121.998680 ° |
| DWR ID | DWR_ST0003_01_s _ 2019_117 | | | | |

**Comment Code**

BU : Building

**Inspector Comment**

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **6.51** | Rating ** | M | Issue No. | **98** |
| LM End | **6.51** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.225307 ° | 39.225307 ° |
| | | | | -121.998755 ° | -121.998755 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_98 | | | | |

**Comment Code**

EQ : Equipment

**Inspector Comment**

The equipment should be removed from the landside shoulder.

Photo 1 of 1 : FA_2019_ST0003_264_98_20190822_00024.jpg

View of the ag equipment along the landside toe.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **6.64** | Rating ** | M | Issue No. | **200** |
| LM End | **6.64** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.226991 ° | 39.226991 ° |
| | | | | -121.999907 ° | -121.999907 ° |
| DWR ID | 17296 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17296
FS_ID:55537
EP_NO: 9530
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent, pipe has been abandoned. DWR DMP Geophysical Evaluation results indicate possible presence of pipe exists through levee. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)06/01/2016 Abandoned- only WS riser and screw gate found.04/01/2015 Only cmp riser with screw gate found on WS. Screw gate stem is bent.Appears abandoned and should be verified as having been done so properly. Only CMP riser with slide gate found on WS06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. (24-inch pipe [HLM 6.61] authorized under Automatic Board Order (ABO) issued as Permit No. 9530, 1974 - Halsey). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 6.61)].
FS Date: 7/31/2019 8:10:00 AM

Photo 1 of 3 : UCIP_FA_2019_55537_47181.jpg

WS view: CMP riser with slide gate

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **6.64** | Rating ** | M | Issue No. | **200 (cont)** |
| LM End | **6.64** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.226991 ° | 39.226991 ° |
| | | | | -121.999907 ° | -121.999907 ° |
| DWR ID | 17296 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17296
FS_ID:55537
EP_NO: 9530
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent, pipe has been abandoned. DWR DMP Geophysical Evaluation results indicate possible presence of pipe exists through levee. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)06/01/2016 Abandoned- only WS riser and screw gate found.04/01/2015 Only cmp riser with screw gate found on WS. Screw gate stem is bent.Appears abandoned and should be verified as having been done so properly. Only CMP riser with slide gate found on WS06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. (24-inch pipe [HLM 6.61] authorized under Automatic Board Order (ABO) issued as Permit No. 9530, 1974 - Halsey). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 6.61)].
FS Date: 7/31/2019 8:10:00 AM

Photo 2 of 3 : UCIP_FA_2019_55537_47180.jpg

WS view: inside CMP riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **6.64** | Rating ** | M | Issue No. | **200 (cont)** |
| LM End | **6.64** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.226991 ° | 39.226991 ° |
| | | | | -121.999907 ° | -121.999907 ° |
| DWR ID | 17296 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17296
FS_ID:55537
EP_NO: 9530
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent, pipe has been abandoned. DWR DMP Geophysical Evaluation results indicate possible presence of pipe exists through levee. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)06/01/2016 Abandoned- only WS riser and screw gate found.04/01/2015 Only cmp riser with screw gate found on WS. Screw gate stem is bent.Appears abandoned and should be verified as having been done so properly. Only CMP riser with slide gate found on WS06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. (24-inch pipe [HLM 6.61] authorized under Automatic Board Order (ABO) issued as Permit No. 9530, 1974 - Halsey). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 6.61)].
FS Date: 7/31/2019 8:10:00 AM

Photo 3 of 3 : UCIP_FA_2019_55537_81856.jpg

Overview of levee crown looking u/s towards pipe crossing.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **6.75** | Rating ** | C | Issue No. | **97** |
| LM End | **6.75** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 39.228291 ° | 39.228291 ° |
| | | | | -121.998579 ° | -121.998579 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_97 | | | | |

**Comment Code**

S1 : Repair slope instability.

**Inspector Comment**

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **6.76** | Rating ** | A/W | Issue No. | **136** |
| LM End | **6.79** | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 39.228311 ° | 39.228730 ° |
| | | | | -121.998555 ° | -121.998109 ° |
| DWR ID | DWR_ST0003_01_s_2012_30 | | | | |

**Comment Code**

**Inspector Comment**

Levee Evaluation Comments
Description:
Site ID No:11
Site Designation:DWR_ST0003_01_s_2012_30
Repair Type: Erosion
Rating:Area of Concern
Field Date:6/7/2017
Notes: Rodent activity seems to be the source of the problem. Local runoff/rainfall eroded the rodent holes to an advanced state of erosion that could continue with future exposure to wet conditions. Simple fix for the issue would be to grout the holes. Problem levee is a set-back levee.

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **6.89** | Rating ** | M | Issue No. | **201** |
| LM End | **6.89** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.229598 ° | 39.229598 ° |
| | | | | -121.996791 ° | -121.996791 ° |
| DWR ID | 17505 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17505
FS_ID:55538
EP_NO: 3073
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 07/31/2019 Record updated to Non-Urgent due to missing information associated with the status of pipe through the levee. Unable to find any signs of sewer line through the levee. (O. Magana - DWR UCIP)04/19/2017 Unable to locate. (DWR Sutter Yard- AFreitag)10/31/2016 Unable to locate. (DWR Sutter Yard- Afreitag)06/01/2016 Unable to locate.04/01/2015 Unable to locate.06/30/2014 Unable to locate.12/18/2013 Unable to locate.07/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 5-inch cast iron sewer line through the levee, 4.5 feet below the crown. Septic tank and leach lines on the landside (LS) toe. (Permit No. 3073, 1959 - Mason).
FS Date: 7/31/2019 8:13:00 AM

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **6.92** | Rating ** | M | Issue No. | **202** |
| LM End | **6.92** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.229670 ° | 39.229670 ° |
| | | | | -121.996313 ° | -121.996313 ° |
| DWR ID | 17298 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17298
FS_ID:55539
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent due to missing information associated with the status of the pipe through the levee. Unable to find any signs of gas line through this section of the levee. (O. Magana - DWR UCIP)04/19/2017 Unable to locate. (DWR Sutter Yard- AFreitag)10/31/2016 Unable to locate. (DWR Sutter Yard- Afreitag)06/01/2016 Unable to locate.04/01/2015 Unable to locate.Need to determine status of crossing.06/30/2014 Unable to locate.12/18/2013 Unable to locate.07/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 2.5-inch gas pipeline of an unknown material through the levee, 1 foot below the crown. Gas storage tanks on the landside (LS). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/31/2019 8:14:00 AM

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **6.94** | Rating ** | M | Issue No. | **203** |
| LM End | **6.94** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.229882 ° | 39.229882 ° |
| | | | | -121.995981 ° | -121.995981 ° |
| DWR ID | 17299 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17299
FS_ID:55540
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 07/31/2019 Record updated to Non-Urgent due to missing information associated with the status of pipe through the levee. No permit was found authorizing this pipe. Unable to find any signs of line through the levee. (O. Magana - DWR UCIP)04/19/2017 Unable to locate. (DWR Sutter Yard- AFreitag)10/31/2016 Unable to locate. (DWR Sutter Yard- Afreitag)06/01/2016 Unable to locate.04/01/2015 Unable to locate.06/30/2014 Unable to locate.12/18/2013 Unable to locate.07/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 1.25-inch galvanized iron drinking water pipe through the levee, 10 feet below the crown. Water line to marina. [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/31/2019 8:21:00 AM

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

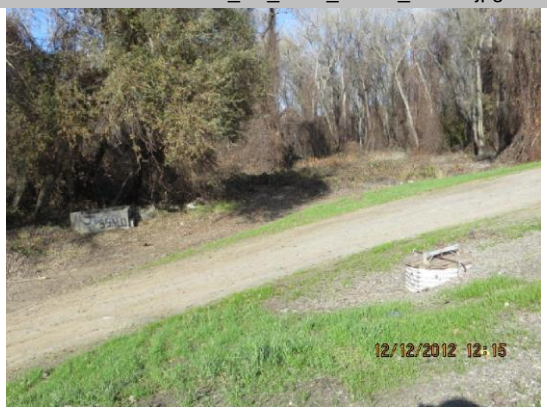
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **7.58** | Rating ** | M | Issue No. | **204** |
| LM End | **7.58** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.238153 ° | 39.238153 ° |
| | | | | -121.995024 ° | -121.995024 ° |
| DWR ID | 17300 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17300
FS_ID:55542
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent, pipe has been abandoned and remains through the levee. DWR's geophysical evaluation study indicates signs of pipe are still present through the levee. Recommend LMA monitor this section of the levee for signs of potential pipe or levee integrity issues. This record will remain as part of UCIP's inspection program until funds become available to remove or properly abandon encroachment as required per Title 23. No permit has been identified authorizing the pipe. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned (DWR Sutter Yard- Afreitag)06/01/2016 Abandoned04/01/2015 Only cmp riser and slide gate found on WS.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/12/2012 Abandoned riser with slide gate on WS. Abandoned concrete surge box on WS. Verify pipe has been abandoned properly. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 14.5 feet below the crown, not found in 2015. Slide gate in a concrete surge box on the waterside (WS) berm, found in 2015. Slide gate in a corrugated metal pipe (CMP) riser, found in 2015. Pump on the WS slope, not found in 2015. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 7.61)].
FS Date: 7/31/2019 8:22:00 AM

Photo 1 of 3 : UCIP_FA_2019_55542_47189.jpg




WS view: overview

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **7.58** | Rating ** | M | Issue No. | **204 (cont)** |
| LM End | **7.58** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.238153 ° | 39.238153 ° |
| | | | | -121.995024 ° | -121.995024 ° |
| DWR ID | 17300 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17300
FS_ID:55542
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent, pipe has been abandoned and remains through the levee. DWR's geophysical evaluation study indicates signs of pipe are still present through the levee. Recommend LMA monitor this section of the levee for signs of potential pipe or levee integrity issues. This record will remain as part of UCIP's inspection program until funds become available to remove or properly abandon encroachment as required per Title 23. No permit has been identified authorizing the pipe. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned (DWR Sutter Yard- Afreitag)06/01/2016 Abandoned04/01/2015 Only cmp riser and slide gate found on WS.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/12/2012 Abandoned riser with slide gate on WS. Abandoned concrete surge box on WS. Verify pipe has been abandoned properly. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 14.5 feet below the crown, not found in 2015. Slide gate in a concrete surge box on the waterside (WS) berm, found in 2015. Slide gate in a corrugated metal pipe (CMP) riser, found in 2015. Pump on the WS slope, not found in 2015. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 7.61)].
FS Date: 7/31/2019 8:22:00 AM

Photo 2 of 3 : UCIP_FA_2019_55542_47188.jpg

WS view: CMP riser with slide gate

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **7.58** | Rating ** | M | Issue No. | **204 (cont)** |
| LM End | **7.58** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.238153 ° | 39.238153 ° |
| | | | | -121.995024 ° | -121.995024 ° |
| DWR ID | 17300 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17300
FS_ID:55542
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent, pipe has been abandoned and remains through the levee. DWR's geophysical evaluation study indicates signs of pipe are still present through the levee. Recommend LMA monitor this section of the levee for signs of potential pipe or levee integrity issues. This record will remain as part of UCIP's inspection program until funds become available to remove or properly abandon encroachment as required per Title 23. No permit has been identified authorizing the pipe. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned (DWR Sutter Yard- Afreitag)06/01/2016 Abandoned04/01/2015 Only cmp riser and slide gate found on WS.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/12/2012 Abandoned riser with slide gate on WS. Abandoned concrete surge box on WS. Verify pipe has been abandoned properly. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 14.5 feet below the crown, not found in 2015. Slide gate in a concrete surge box on the waterside (WS) berm, found in 2015. Slide gate in a corrugated metal pipe (CMP) riser, found in 2015. Pump on the WS slope, not found in 2015. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 7.61)].
FS Date: 7/31/2019 8:22:00 AM

Photo 3 of 3 : UCIP_FA_2019_55542_47192.jpg

WS view: abandoned concrete surge box

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **7.72** | Rating ** | M | Issue No. | **205** |
| LM End | **7.72** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.239458 ° | 39.239458 ° |
| | | | | -121.993398 ° | -121.993398 ° |
| DWR ID | 17301 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17301
FS_ID:55543
EP_NO: 9532
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent, structure has been abandoned. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. No permit has been identified authorizing the pipe. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done properly(O. Magana - DWR UCIP)04/19/2017 Abandoned- erosion/depression present around the WS box (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned and erosion still present near WS box.(DWR Sutter Yard- Afreitag)06/01/2016 Appears to be an abandoned crossing.04/01/2015 Silted concrete box on WS. Depression/erosion around concrete box on WS.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/12/2012 Silted concrete box on WS. Depression/erosion around concrete box on WS. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 36-inch by 48-inch reinforced concrete box drainage culvert through the levee, 11.6 feet below the crown. Slide gate in a concrete box on the waterside (WS) slope. (3-foot by 4-foot culvert [HLM 7.73] authorized under Automatic Board Order (ABO) issued as Permit No. 9532, 1974 - Martin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 7.73)].
FS Date: 7/31/2019 8:23:00 AM

Photo 1 of 3 : UCIP_FA_2019_55543_77008.jpg

Depression around WS concrete box

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **7.72** | Rating ** | M | Issue No. | **205 (cont)** |
| LM End | **7.72** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.239458 ° | 39.239458 ° |
| | | | | -121.993398 ° | -121.993398 ° |
| DWR ID | 17301 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17301
FS_ID:55543
EP_NO: 9532
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent, structure has been abandoned. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. No permit has been identified authorizing the pipe. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done properly(O. Magana - DWR UCIP)04/19/2017 Abandoned- erosion/depression present around the WS box (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned and erosion still present near WS box.(DWR Sutter Yard- Afreitag)06/01/2016 Appears to be an abandoned crossing.04/01/2015 Silted concrete box on WS. Depression/erosion around concrete box on WS.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/12/2012 Silted concrete box on WS. Depression/erosion around concrete box on WS. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 36-inch by 48-inch reinforced concrete box drainage culvert through the levee, 11.6 feet below the crown. Slide gate in a concrete box on the waterside (WS) slope. (3-foot by 4-foot culvert [HLM 7.73] authorized under Automatic Board Order (ABO) issued as Permit No. 9532, 1974 - Martin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 7.73)].
FS Date: 7/31/2019 8:23:00 AM

Photo 2 of 3 : UCIP_FA_2019_55543_77009.jpg

Depression around WS concrete box

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **7.72** | Rating ** | M | Issue No. | **205 (cont)** |
| LM End | **7.72** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.239458 ° | 39.239458 ° |
| | | | | -121.993398 ° | -121.993398 ° |
| DWR ID | 17301 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17301
FS_ID:55543
EP_NO: 9532
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent, structure has been abandoned. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. No permit has been identified authorizing the pipe. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done properly(O. Magana - DWR UCIP)04/19/2017 Abandoned- erosion/depression present around the WS box (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned and erosion still present near WS box.(DWR Sutter Yard- Afreitag)06/01/2016 Appears to be an abandoned crossing.04/01/2015 Silted concrete box on WS. Depression/erosion around concrete box on WS.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/12/2012 Silted concrete box on WS. Depression/erosion around concrete box on WS. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 36-inch by 48-inch reinforced concrete box drainage culvert through the levee, 11.6 feet below the crown. Slide gate in a concrete box on the waterside (WS) slope. (3-foot by 4-foot culvert [HLM 7.73] authorized under Automatic Board Order (ABO) issued as Permit No. 9532, 1974 - Martin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 7.73)].
FS Date: 7/31/2019 8:23:00 AM

Photo 3 of 3 : UCIP_FA_2019_55543_77010.jpg

WS concrete box full of silt.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

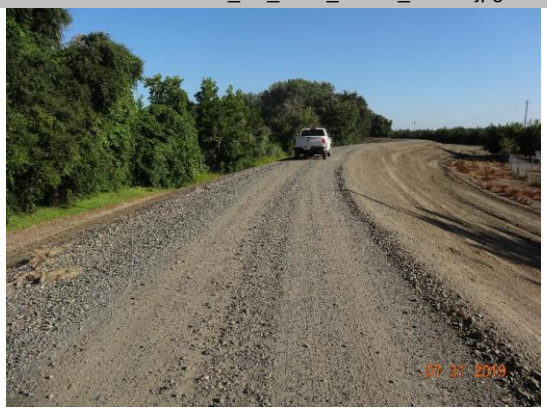
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **7.86** | Rating ** | M | Issue No. | **206** |
| LM End | **7.86** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.241222 ° | 39.241222 ° |
| | | | | -121.994241 ° | -121.994241 ° |
| DWR ID | 17490 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17490
FS_ID:55544
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 07/31/2019 Record has been updated to Non-Urgent due to evidence found of pipe still present through the levee, under DWR DMP Geophysical Investigation, about 62 feet south from original coordinates, 39.241408, -121.994277. Coordinates have been updated from 39.241408, -121.994277 to 39.241222, -121.994241. USACE O&M references pipe as being plugged. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Record will remain in UCIP's list as part of future inspections in case any issues arise at this location. (O. Magana - DWR UCIP)04/19/2017 Unable to locate. (DWR Sutter Yard-AFreitag)10/31/2016 Unable to locate.(DWR Sutter Yard-Afreitag)06/01/2016 Unable to locate.04/01/2015 Unable to locate.06/30/2014 Unable to locate.12/18/2013 Unable to locate.07/23/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 24-inch drainage pipe of an unknown material through the levee, at an unknown depth below the crown. Pipe is plugged according to USACE O&M manual. [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 7.86), pipe plugged].
FS Date: 7/31/2019 8:23:00 AM

Photo 1 of 3 : UCIP_FA_2019_55544_81876.jpg



Overview of levee looking u/s towards where pipe should be buried.

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **7.86** | Rating ** | M | Issue No. | **206 (cont)** |
| LM End | **7.86** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_55544_81877.jpg

LS view: overview of LS, looking photo 1 of 2.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

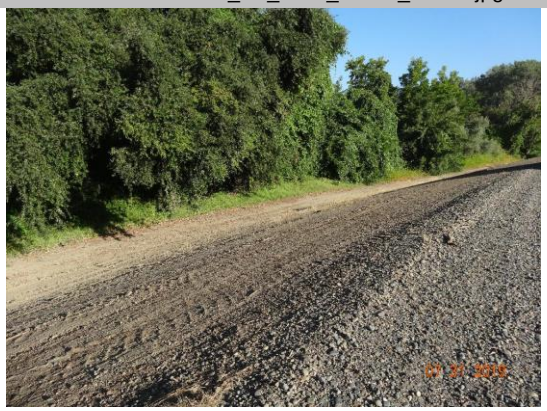
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **7.86** | Rating ** | M | Issue No. | **206 (cont)** |
| LM End | **7.86** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.241222 ° | 39.241222 ° |
| | | | | -121.994241 ° | -121.994241 ° |
| DWR ID | 17490 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17490
FS_ID:55544
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 07/31/2019 Record has been updated to Non-Urgent due to evidence found of pipe still present through the levee, under DWR DMP Geophysical Investigation, about 62 feet south from original coordinates, 39.241408, -121.994277. Coordinates have been updated from 39.241408, -121.994277 to 39.241222, -121.994241. USACE O&M references pipe as being plugged. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Record will remain in UCIP's list as part of future inspections in case any issues arise at this location. (O. Magana - DWR UCIP)04/19/2017 Unable to locate. (DWR Sutter Yard-AFreitag)10/31/2016 Unable to locate.(DWR Sutter Yard-Afreitag)06/01/2016 Unable to locate.04/01/2015 Unable to locate.06/30/2014 Unable to locate.12/18/2013 Unable to locate.07/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 24-inch drainage pipe of an unknown material through the levee, at an unknown depth below the crown. Pipe is plugged according to USACE O&M manual. [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 7.86), pipe plugged].
FS Date: 7/31/2019 8:23:00 AM

Photo 3 of 3 : UCIP_FA_2019_55544_81878.jpg



WS view: overview of WS.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.03** | Rating ** | M | Issue No. | **207** |
| LM End | **8.03** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.243747 ° | 39.243747 ° |
| | | | | -121.994854 ° | -121.994854 ° |
| DWR ID | 17302 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17302
FS_ID:55545
EP_NO: 9529
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record has been updated to Non-Urgent due to evidence found of pipe still present through the levee under the DWR DMP Geophysical Investigation. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Record will remain in UCIP's list as part of future inspections until pipe is properly removed or abandoned properly per Title 23 requirements. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard-AFreitag)10/31/2016 Abandoned (DWR Sutter Yard-Afreitag)06/01/2016 Appears abandoned- only WS riser found04/01/2015 Only cmp riser and slide gate found on WS.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/12/2012 Only a CMP riser with slide gate found on WS.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14.8 feet below the crown, not found in 2015. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder, found in 2015. (24-inch pipe [HLM 8.05] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Company). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.05)].
FS Date: 7/31/2019 8:24:00 AM

Photo 1 of 3 : UCIP_FA_2019_55545_47199.jpg

WS view: CMP riser with slide gate

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.03** | Rating ** | M | Issue No. | **207 (cont)** |
| LM End | **8.03** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.243747 ° | 39.243747 ° |
| | | | | -121.994854 ° | -121.994854 ° |
| DWR ID | 17302 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17302
FS_ID:55545
EP_NO: 9529
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record has been updated to Non-Urgent due to evidence found of pipe still present through the levee under the DWR DMP Geophysical Investigation. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Record will remain in UCIP's list as part of future inspections until pipe is properly removed or abandoned properly per Title 23 requirements. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard-AFreitag)10/31/2016 Abandoned (DWR Sutter Yard-Afreitag)06/01/2016 Appears abandoned- only WS riser found04/01/2015 Only cmp riser and slide gate found on WS.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/12/2012 Only a CMP riser with slide gate found on WS.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14.8 feet below the crown, not found in 2015. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder, found in 2015. (24-inch pipe [HLM 8.05] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Company). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.05)].
FS Date: 7/31/2019 8:24:00 AM

Photo 2 of 3 : UCIP_FA_2019_55545_47198.jpg

WS view: closer view of CMP riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.03** | Rating ** | M | Issue No. | **207 (cont)** |
| LM End | **8.03** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.243747 ° | 39.243747 ° |
| | | | | -121.994854 ° | -121.994854 ° |
| DWR ID | 17302 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17302
FS_ID:55545
EP_NO: 9529
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record has been updated to Non-Urgent due to evidence found of pipe still present through the levee under the DWR DMP Geophysical Investigation. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Record will remain in UCIP's list as part of future inspections until pipe is properly removed or abandoned properly per Title 23 requirements. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard-AFreitag)10/31/2016 Abandoned (DWR Sutter Yard-Afreitag)06/01/2016 Appears abandoned- only WS riser found04/01/2015 Only cmp riser and slide gate found on WS.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/12/2012 Only a CMP riser with slide gate found on WS.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14.8 feet below the crown, not found in 2015. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder, found in 2015. (24-inch pipe [HLM 8.05] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Company). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.05)].
FS Date: 7/31/2019 8:24:00 AM

Photo 3 of 3 : UCIP_FA_2019_55545_47197.jpg

LS view: overview (no pipe)

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.32** | Rating ** | M | Issue No. | **208** |
| LM End | **8.32** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.246317 ° | 39.246317 ° |
| | | | | -121.998825 ° | -121.998825 ° |
| DWR ID | 17304 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17304
FS_ID:55547
EP_NO: 9529
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent; internal inspection found some issues with pipe. Pipe has been abandoned (LS silted in) since 2012. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Record will remain in UCIP's list as part of future inspections until the pipe is properly removed or abandoned according to Title 23 requirements. Need to clarify ownership for this crossing. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned (DWR Sutter Yard- Afreitag)06/01/2016 Abandoned- only WS riser and slide gate found.04/01/2015 CMP riser and slide gate on WS. LS distribution box is silted in. 06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/12/2012 Looks abandoned. CMP riser with slide gate on WS. Concrete distribution box on LS- full with silt. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, invert 12.8 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete box at the landside (LS) toe. (24-inch pipe [HLM 8.35] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Company). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.35)].
FS Date: 7/31/2019 8:24:00 AM

Photo 1 of 3 : UCIP_FA_2019_55547_47202.jpg

Crown view: overview (both sides of the levee)

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.32** | Rating ** | M | Issue No. | **208 (cont)** |
| LM End | **8.32** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.246317 ° | 39.246317 ° |
| | | | | -121.998825 ° | -121.998825 ° |
| DWR ID | 17304 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17304
FS_ID:55547
EP_NO: 9529
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent; internal inspection found some issues with pipe. Pipe has been abandoned (LS silted in) since 2012. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Record will remain in UCIP's list as part of future inspections until the pipe is properly removed or abandoned according to Title 23 requirements. Need to clarify ownership for this crossing. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned (DWR Sutter Yard- Afreitag)06/01/2016 Abandoned- only WS riser and slide gate found.04/01/2015 CMP riser and slide gate on WS. LS distribution box is silted in. 06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/12/2012 Looks abandoned. CMP riser with slide gate on WS. Concrete distribution box on LS- full with silt. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, invert 12.8 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete box at the landside (LS) toe. (24-inch pipe [HLM 8.35] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Company). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.35)].
FS Date: 7/31/2019 8:24:00 AM

Photo 2 of 3 : UCIP_FA_2019_55547_47201.jpg

WS view: overview of CMP riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.32** | Rating ** | M | Issue No. | **208 (cont)** |
| LM End | **8.32** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.246317 ° | 39.246317 ° |
| | | | | -121.998825 ° | -121.998825 ° |
| DWR ID | 17304 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17304
FS_ID:55547
EP_NO: 9529
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent; internal inspection found some issues with pipe. Pipe has been abandoned (LS silted in) since 2012. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Record will remain in UCIP's list as part of future inspections until the pipe is properly removed or abandoned according to Title 23 requirements. Need to clarify ownership for this crossing. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned (DWR Sutter Yard- Afreitag)06/01/2016 Abandoned- only WS riser and slide gate found.04/01/2015 CMP riser and slide gate on WS. LS distribution box is silted in. 06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/12/2012 Looks abandoned. CMP riser with slide gate on WS. Concrete distribution box on LS- full with silt. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, invert 12.8 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete box at the landside (LS) toe. (24-inch pipe [HLM 8.35] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Company). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.35)].
FS Date: 7/31/2019 8:24:00 AM

Photo 3 of 3 : UCIP_FA_2019_55547_47200.jpg

LS view: overview of concrete box

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.34** | Rating ** | M | Issue No. | **209** |
| LM End | **8.34** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.246548 ° | 39.246548 ° |
| | | | | -121.998975 ° | -121.998975 ° |
| DWR ID | 17303 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17303
FS_ID:55548
EP_NO: 9529
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 07/31/2019 Record has been updated Non-Urgent, no evidence was found of pipe during inspection. Need to clarify ownership for this crossing. Record is associated with Automatic Board Order 9529. Recommend performing a geophysical investigation of this section of the levee to determine if pipe is still present. (O. Magana - DWR UCIP)04/19/2017 Unable to locate. (DWR Sutter Yard-Afreitag)10/31/2016 Unable to locate. (DWR Sutter Yard-Afreitag)06/01/2016 Unable to locate.04/01/2015 Unable to locate.06/30/2014 Unable to locate.12/18/2013 Unable to locate.07/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: *ABANDONED* 12-inch corrugated metal pipe (CMP) of unknown purpose through the levee, 2.5 feet below the crown. Pipe welded shut at both ends. (12-inch pipe [HLM 8.34] authorized under Automatic Board Order [ABO] issued as Permit No. 9529, 1974 - Dorwood Ranching Co., noted as welded shut at both ends) [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.34)].
FS Date: 7/31/2019 8:27:00 AM

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

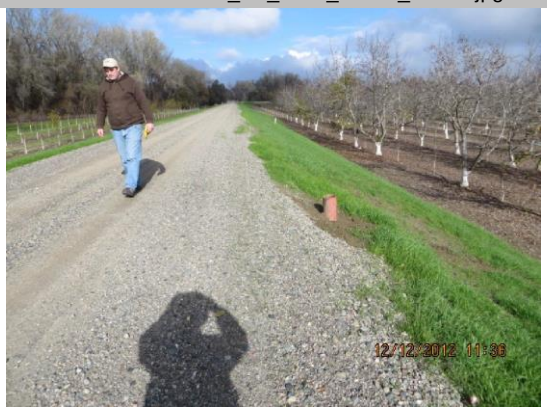
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.38** | Rating ** | M | Issue No. | **210** |
| LM End | **8.38** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.247098 ° | 39.247098 ° |
| | | | | -121.999055 ° | -121.999055 ° |
| DWR ID | 17338 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17338
FS_ID:55549
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent; no permit has been found authorizing pipe through levee. DWR DMP geophysical investigation results did not find any conclusive evidence of pipe. The pipe through the levee is a non-metal pipe. Need to find owner to determine permit authorizing crossing through levee. (O. Magana - DWR UCIP)04/19/2017 Still only LS air vent found. (DWR Sutter Yard- Afreitag)10/31/2016 Only the LS standpipe and air vent found.06/01/2016 Still only the vacuum breaker on LS shoulder visible.04/01/2015 Only vacuum breaker found on LS shoulder.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: Pipe of unknown diameter, purpose and material through the levee, at an unknown depth below the crown, not found. Vacuum breaker inside steel standpipe on the landside (LS) shoulder, found in 2015. [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/31/2019 8:38:00 AM

Photo 1 of 3 : UCIP_FA_2019_55549_47206.jpg




WS view: overview

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.38** | Rating ** | M | Issue No. | **210 (cont)** |
| LM End | **8.38** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_55549_47205.jpg

WS view: vacuum breaker inside a steel pipe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.38** | Rating ** | M | Issue No. | **210 (cont)** |
| LM End | **8.38** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.247098 ° | 39.247098 ° |
| | | | | -121.999055 ° | -121.999055 ° |
| DWR ID | 17338 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17338
FS_ID:55549
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent; no permit has been found authorizing pipe through levee. DWR DMP geophysical investigation results did not find any conclusive evidence of pipe. The pipe through the levee is a non-metal pipe. Need to find owner to determine permit authorizing crossing through levee. (O. Magana - DWR UCIP)04/19/2017 Still only LS air vent found. (DWR Sutter Yard- Afreitag)10/31/2016 Only the LS standpipe and air vent found.06/01/2016 Still only the vacuum breaker on LS shoulder visible.04/01/2015 Only vacuum breaker found on LS shoulder.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: Pipe of unknown diameter, purpose and material through the levee, at an unknown depth below the crown, not found. Vacuum breaker inside steel standpipe on the landside (LS) shoulder, found in 2015. [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 7/31/2019 8:38:00 AM

Photo 3 of 3 : UCIP_FA_2019_55549_47204.jpg

LS view: overview (no pipes)

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.52** | Rating ** | M | Issue No. | **211** |
| LM End | **8.52** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.249125 ° | 39.249125 ° |
| | | | | -121.999031 ° | -121.999031 ° |
| DWR ID | 17295 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17295
FS_ID:55550
EP_NO: 9529
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated to from No Action Needed to Non-Urgent; internal inspection found some issues with the pipe. Pipe has been noted as abandoned since 2012. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Record will remain in UCIP's list as part of future inspections until the pipe is properly removed or abandoned according to Title 23 requirements. Need to clarify ownership for this crossing. (O. Magana - DWR UCIP)09/21/2017 Permit review indicates this 24-inch pipe was authorized as an irrigation and drainage pipe under ABO issued as Permit No. 9529, structure description was updated. Structure type logged as drainage. (DWR UCIP - O. Magana)
04/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)06/13/2016 Pipe was exposed and camera inspected by Nor-Cal Pipeline Services 10/29/2015. Photos of the exposed pipe ends were uploaded on 4/1/2015. The internal inspection showed some signs of rust but no visible holes or deterioration were found. After the inspection the pipe ends were capped and reburied.06/09/2016 Khalida Fazel of UCIP requests that any photos of the pipe when it was exposed for a video inspection be kindly uploaded here.04/04/2016 Proper abandonment of pipe is needed. Pipe has been buried again after it was dug up and video inspected, so was not visible on LS. Note that landowner has regraded LS slope so drainage is now to the east (toward LS).04/01/2015 Both WS and LS pipe ends have been dug up in preparation for an internal camera inspection. Pipe shows signs of heavy rust and both ends of pipe are plugged with soil.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/12/2012 Only a CMP riser with slide gate found on WS. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch irrigation and drainage pipe through the levee, invert 11.5 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. (24-inch pipe [HLM 8.55] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Co.) [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.55)]
FS Date: 7/31/2019 8:38:00 AM

Photo 1 of 3 : UCIP_FA_2019_55550_47208.jpg

WS view: overview of CMP riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.52** | Rating ** | M | Issue No. | **211 (cont)** |
| LM End | **8.52** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.249125 ° | 39.249125 ° |
| | | | | -121.999031 ° | -121.999031 ° |
| DWR ID | 17295 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17295
FS_ID:55550
EP_NO: 9529
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated to from No Action Needed to Non-Urgent; internal inspection found some issues with the pipe. Pipe has been noted as abandoned since 2012. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Record will remain in UCIP's list as part of future inspections until the pipe is properly removed or abandoned according to Title 23 requirements. Need to clarify ownership for this crossing. (O. Magana - DWR UCIP)09/21/2017 Permit review indicates this 24-inch pipe was authorized as an irrigation and drainage pipe under ABO issued as Permit No. 9529, structure description was updated. Structure type logged as drainage. (DWR UCIP - O. Magana)
04/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)06/13/2016 Pipe was exposed and camera inspected by Nor-Cal Pipeline Services 10/29/2015. Photos of the exposed pipe ends were uploaded on 4/1/2015. The internal inspection showed some signs of rust but no visible holes or deterioration were found. After the inspection the pipe ends were capped and reburied.06/09/2016 Khalida Fazel of UCIP requests that any photos of the pipe when it was exposed for a video inspection be kindly uploaded here.04/04/2016 Proper abandonment of pipe is needed. Pipe has been buried again after it was dug up and video inspected, so was not visible on LS. Note that landowner has regraded LS slope so drainage is now to the east (toward LS).04/01/2015 Both WS and LS pipe ends have been dug up in preparation for an internal camera inspection. Pipe shows signs of heavy rust and both ends of pipe are plugged with soil.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/12/2012 Only a CMP riser with slide gate found on WS. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch irrigation and drainage pipe through the levee, invert 11.5 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. (24-inch pipe [HLM 8.55] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Co.) [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.55)]
FS Date: 7/31/2019 8:38:00 AM

Photo 2 of 3 : UCIP_FA_2019_55550_47207.jpg

LS view: overview (no pipes)

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.52** | Rating ** | M | Issue No. | **211 (cont)** |
| LM End | **8.52** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.249125 ° | 39.249125 ° |
| | | | | -121.999031 ° | -121.999031 ° |
| DWR ID | 17295 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17295
FS_ID:55550
EP_NO: 9529
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated to from No Action Needed to Non-Urgent; internal inspection found some issues with the pipe. Pipe has been noted as abandoned since 2012. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Record will remain in UCIP's list as part of future inspections until the pipe is properly removed or abandoned according to Title 23 requirements. Need to clarify ownership for this crossing. (O. Magana - DWR UCIP)09/21/2017 Permit review indicates this 24-inch pipe was authorized as an irrigation and drainage pipe under ABO issued as Permit No. 9529, structure description was updated. Structure type logged as drainage. (DWR UCIP - O. Magana)
04/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)06/13/2016 Pipe was exposed and camera inspected by Nor-Cal Pipeline Services 10/29/2015. Photos of the exposed pipe ends were uploaded on 4/1/2015. The internal inspection showed some signs of rust but no visible holes or deterioration were found. After the inspection the pipe ends were capped and reburied.06/09/2016 Khalida Fazel of UCIP requests that any photos of the pipe when it was exposed for a video inspection be kindly uploaded here.04/04/2016 Proper abandonment of pipe is needed. Pipe has been buried again after it was dug up and video inspected, so was not visible on LS. Note that landowner has regraded LS slope so drainage is now to the east (toward LS).04/01/2015 Both WS and LS pipe ends have been dug up in preparation for an internal camera inspection. Pipe shows signs of heavy rust and both ends of pipe are plugged with soil.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/12/2012 Only a CMP riser with slide gate found on WS. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch irrigation and drainage pipe through the levee, invert 11.5 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. (24-inch pipe [HLM 8.55] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Co.) [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.55)]
FS Date: 7/31/2019 8:38:00 AM

Photo 3 of 3 : UCIP_FA_2019_55550_73640.jpg

WS pipe end

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.56** | Rating ** | M | Issue No. | **212** |
| LM End | **8.56** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.249678 ° | 39.249678 ° |
| | | | | -121.999021 ° | -121.999021 ° |
| DWR ID | 17327 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17327
FS_ID:55552
EP_NO: 9528
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated to Non-Urgent; internal inspection found some issues with the pipe. Pipe has been noted as abandoned since 2012. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Record will remain in UCIP's list as part of future inspections until the pipe is properly removed or abandoned according to Title 23 requirements. Need to clarify ownership for this crossing. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)06/13/2016 Pipe was internally cleaned and camera inspected by Nor-Cal Pipeline Services on 10-29-2015. Pipe length through levee is 75.1ft long. The inspection showed some signs of rust but no holes or other deterioration were found. Pics of exposed pipe ends were uploaded on 04/01/2015 After the inspection the pipe ends were capped and reburied.04/14/2016 Same as last inspection.04/01/2015 Both ends of pipe have been dug up in preparation for internal camera inspections. Pipe shows some rust but appears to be in decent shape. 06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/12/2012 Only buried slide gate structure found. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 12.5 feet below the crown. Slide gate on the waterside (WS). (Automatic Board Order (ABO) issued as Permit No. 9528, 1974 - Lamb). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.59)].
FS Date: 7/31/2019 10:17:00 AM

Photo 1 of 3 : UCIP_FA_2019_55552_47210.jpg

WS view: overview

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.56** | Rating ** | M | Issue No. | **212 (cont)** |
| LM End | **8.56** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.249678 ° | 39.249678 ° |
| | | | | -121.999021 ° | -121.999021 ° |
| DWR ID | 17327 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17327
FS_ID:55552
EP_NO: 9528
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated to Non-Urgent; internal inspection found some issues with the pipe. Pipe has been noted as abandoned since 2012. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Record will remain in UCIP's list as part of future inspections until the pipe is properly removed or abandoned according to Title 23 requirements. Need to clarify ownership for this crossing. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)06/13/2016 Pipe was internally cleaned and camera inspected by Nor-Cal Pipeline Services on 10-29-2015. Pipe length through levee is 75.1ft long. The inspection showed some signs of rust but no holes or other deterioration were found. Pics of exposed pipe ends were uploaded on 04/01/2015 After the inspection the pipe ends were capped and reburied.04/14/2016 Same as last inspection.04/01/2015 Both ends of pipe have been dug up in preparation for internal camera inspections. Pipe shows some rust but appears to be in decent shape. 06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/12/2012 Only buried slide gate structure found. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 12.5 feet below the crown. Slide gate on the waterside (WS). (Automatic Board Order (ABO) issued as Permit No. 9528, 1974 - Lamb). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.59)].
FS Date: 7/31/2019 10:17:00 AM

Photo 2 of 3 : UCIP_FA_2019_55552_47209.jpg

WS view: burried slide gate

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.56** | Rating ** | M | Issue No. | **212 (cont)** |
| LM End | **8.56** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.249678 ° | 39.249678 ° |
| | | | | -121.999021 ° | -121.999021 ° |
| DWR ID | 17327 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17327
FS_ID:55552
EP_NO: 9528
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated to Non-Urgent; internal inspection found some issues with the pipe. Pipe has been noted as abandoned since 2012. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Record will remain in UCIP's list as part of future inspections until the pipe is properly removed or abandoned according to Title 23 requirements. Need to clarify ownership for this crossing. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)06/13/2016 Pipe was internally cleaned and camera inspected by Nor-Cal Pipeline Services on 10-29-2015. Pipe length through levee is 75.1ft long. The inspection showed some signs of rust but no holes or other deterioration were found. Pics of exposed pipe ends were uploaded on 04/01/2015 After the inspection the pipe ends were capped and reburied.04/14/2016 Same as last inspection.04/01/2015 Both ends of pipe have been dug up in preparation for internal camera inspections. Pipe shows some rust but appears to be in decent shape. 06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/12/2012 Only buried slide gate structure found. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 12.5 feet below the crown. Slide gate on the waterside (WS). (Automatic Board Order (ABO) issued as Permit No. 9528, 1974 - Lamb). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.59)].
FS Date: 7/31/2019 10:17:00 AM

Photo 3 of 3 : UCIP_FA_2019_55552_73649.jpg

WS pipe end

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.59** | Rating ** | M | Issue No. | **112** |
| LM End | **8.59** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.250190 ° | 39.250190 ° |
| | | | | -121.998858 ° | -121.998858 ° |
| DWR ID | DWR_ST0003_01_s _ 2018_112 | | | | |

**Comment Code**

PR : Prunings

**Inspector Comment**

Remove the prunings from the landside toe.

Photo 1 of 1 : FA_2019_ST0003_264_112_20190822_00031.jpg

View of the prunings along the landside toe.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.65** | Rating ** | M | Issue No. | **213** |
| LM End | **8.65** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.250657 ° | 39.250657 ° |
| | | | | -121.998381 ° | -121.998381 ° |
| DWR ID | 17351 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17351
FS_ID:56038
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 07/31/2019 Coordinates were recorded incorrectly according to LMA supervisor, coordinates have been updated from 39.250830, -121.998184 to 39.2506573, -121.9983807. Record has been updated from No Action Needed to Non-Urgent due to missing records indicating status of pipe through the levee. The DWR DMP Geophysical Investigation includes d/s levee section where point was re-located. No signal was present to show evidence of pipe under geophysical study however, pipe cannot be removed from list. Record will remain in UCIP's list until future levee improvement projects can confirm status of pipe through this section of the levee. (O. Magana - DWR UCIP)04/19/2017 Unable to locate. (DWR Sutter Yard-Afreitag)10/31/2016 Unable to locate. (DWR Sutter Yard-Afreitag)06/01/2016 Unable to locate.04/14/2016 Same as last inspection. Note photos have been updated.04/01/2015 THIS PIPE IS NOT FOUND. The pictures for this pipe belong to the pipe at LM 8.700. 06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/12/2012 Only partially buried CMP riser found. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Slide gate on the waterside (WS), removed. Pipe is plugged and abandoned in place. [Additional Reference(s): DWR Levee Log, 2002, noted as plugged and abandoned in place with slide gate removed. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.67)].
FS Date: 7/31/2019 1:46:00 PM

Photo 1 of 3 : UCIP_FA_2019_56038_75043.jpg

Probable location of crossing with view upstream.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.65** | Rating ** | M | Issue No. | **213 (cont)** |
| LM End | **8.65** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.250657 ° | 39.250657 ° |
| | | | | -121.998381 ° | -121.998381 ° |
| DWR ID | 17351 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17351
FS_ID:56038
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 07/31/2019 Coordinates were recorded incorrectly according to LMA supervisor, coordinates have been updated from 39.250830, -121.998184 to 39.2506573, -121.9983807. Record has been updated from No Action Needed to Non-Urgent due to missing records indicating status of pipe through the levee. The DWR DMP Geophysical Investigation includes d/s levee section where point was re-located. No signal was present to show evidence of pipe under geophysical study however, pipe cannot be removed from list. Record will remain in UCIP's list until future levee improvement projects can confirm status of pipe through this section of the levee. (O. Magana - DWR UCIP)04/19/2017 Unable to locate. (DWR Sutter Yard-Afreitag)10/31/2016 Unable to locate. (DWR Sutter Yard-Afreitag)06/01/2016 Unable to locate.04/14/2016 Same as last inspection. Note photos have been updated.04/01/2015 THIS PIPE IS NOT FOUND. The pictures for this pipe belong to the pipe at LM 8.700. 06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/12/2012 Only partially buried CMP riser found. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Slide gate on the waterside (WS), removed. Pipe is plugged and abandoned in place. [Additional Reference(s): DWR Levee Log, 2002, noted as plugged and abandoned in place with slide gate removed. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.67)].
FS Date: 7/31/2019 1:46:00 PM

Photo 2 of 3 : UCIP_FA_2019_56038_75044.jpg

Probable location of crossing along property line at line of trees along landside (LS).

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.65** | Rating ** | M | Issue No. | **213 (cont)** |
| LM End | **8.65** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.250657 ° | 39.250657 ° |
| | | | | -121.998381 ° | -121.998381 ° |
| DWR ID | 17351 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17351
FS_ID:56038
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 07/31/2019 Coordinates were recorded incorrectly according to LMA supervisor, coordinates have been updated from 39.250830, -121.998184 to 39.2506573, -121.9983807. Record has been updated from No Action Needed to Non-Urgent due to missing records indicating status of pipe through the levee. The DWR DMP Geophysical Investigation includes d/s levee section where point was re-located. No signal was present to show evidence of pipe under geophysical study however, pipe cannot be removed from list. Record will remain in UCIP's list until future levee improvement projects can confirm status of pipe through this section of the levee. (O. Magana - DWR UCIP)04/19/2017 Unable to locate. (DWR Sutter Yard-Afreitag)10/31/2016 Unable to locate. (DWR Sutter Yard-Afreitag)06/01/2016 Unable to locate.04/14/2016 Same as last inspection. Note photos have been updated.04/01/2015 THIS PIPE IS NOT FOUND. The pictures for this pipe belong to the pipe at LM 8.700. 06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/12/2012 Only partially buried CMP riser found. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Slide gate on the waterside (WS), removed. Pipe is plugged and abandoned in place. [Additional Reference(s): DWR Levee Log, 2002, noted as plugged and abandoned in place with slide gate removed. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.67)].
FS Date: 7/31/2019 1:46:00 PM

Photo 3 of 3 : UCIP_FA_2019_56038_81904.jpg

Overview of levee crown looking u/s towards where pipe crossing should be.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.70** | Rating ** | M | Issue No. | **214** |
| LM End | **8.70** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.250830 ° | 39.250830 ° |
| | | | | -121.998184 ° | -121.998184 ° |
| DWR ID | 17352 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17352
FS_ID:56039
EP_NO: 9523
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent, pipe has been abandoned. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. ABO issued for this pipe, recommend auditing record to determine current owner. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)06/13/2016 Abandoned crossing.04/14/2016 Appears abandoned and if so, should be done so properly. Borrowing activity on landside (LS).08/28/2015 Pipe has been dug up and located along the WS levee toe.06/30/2014 Unable to locate.12/18/2013 Unable to locate.07/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: *ABANDONED* 10-inch concrete encased steel drainage pipe through the levee, invert 15 feet below the crown, not found in 2016. Gate valve in a 42-inch corrugated metal pipe riser on the waterside (WS) slope, found in 2016. (10-inch pipe [HLM 8.7] authorized under Automatic Board Order (ABO) issued as Permit No. 9523, 1974 - Blackmore)[Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.7)].
FS Date: 7/31/2019 1:42:00 PM

Photo 1 of 3 : UCIP_FA_2019_56039_74662.jpg

View of LS

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.70** | Rating ** | M | Issue No. | **214 (cont)** |
| LM End | **8.70** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_56039_74661.jpg

42-inch riser on WS shoulder.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.70** | Rating ** | M | Issue No. | **214 (cont)** |
| LM End | **8.70** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.250830 ° | 39.250830 ° |
| | | | | -121.998184 ° | -121.998184 ° |
| DWR ID | 17352 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17352
FS_ID:56039
EP_NO: 9523
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record remains Non-Urgent, pipe has been abandoned. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. ABO issued for this pipe, recommend auditing record to determine current owner. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)06/13/2016 Abandoned crossing.04/14/2016 Appears abandoned and if so, should be done so properly. Borrowing activity on landside (LS).08/28/2015 Pipe has been dug up and located along the WS levee toe.06/30/2014 Unable to locate.12/18/2013 Unable to locate.07/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: *ABANDONED* 10-inch concrete encased steel drainage pipe through the levee, invert 15 feet below the crown, not found in 2016. Gate valve in a 42-inch corrugated metal pipe riser on the waterside (WS) slope, found in 2016. (10-inch pipe [HLM 8.7] authorized under Automatic Board Order (ABO) issued as Permit No. 9523, 1974 - Blackmore). Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.7)].
FS Date: 7/31/2019 1:42:00 PM

Photo 3 of 3 : UCIP_FA_2019_56039_74660.jpg

View from crown of levee looking downstream.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.75** | Rating ** | M | Issue No. | **215** |
| LM End | **8.75** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.251561 ° | 39.251561 ° |
| | | | | -121.997875 ° | -121.997875 ° |
| DWR ID | 17353 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17353
FS_ID:56040
EP_NO: 4491
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been downgraded from Urgent to Non-Urgent, modifications have been made to pipe. No permit has been identified authorizing the 4-inch sleeved pipe through the 24-inch pipe. Recommend auditing record to determine current owner. Recommend monitoring WS toe where pipe shows signs of deterioration. (O. Magana - DWR UCIP)08/30/2018 Same as last inspection; could not find LS pipe end so recommend internal pipe inspection. Crossing to remain Urgent (D. Sanoski - DWR UCIP).04/19/2017 4in. pipe still showing signs of deterioration near WS toe. (DWR Sutter Yard- Afreitag)10/31/2016 Pipe still exposed along the WS toe and is rusted and corroded. If it is still in use by the owner then it should be rebuilt.(DWR Sutter Yard-Afreitag)06/13/2016 Pipe was dug up on WS and photographed. It was originally selected for internal inspection but was unable to be as there was no access to the inside of the 4" pipe. (DWR Sutter Yard - afreitag)04/14/2016 Signs of corrosion on pipe and valve on LS. Pipe in use according to Bryan Reniff of Sutter Yard. (DWR UCIP - kfazel)08/28/2015 Pipe was dug up and located on the WS levee toe. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/23/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/11/2012 Only abandoned slide gate found on WS. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 4-inch steel drainage pipe sleeved through 24-inch corrugated metal pipe through the levee, 16.7 feet below the crown. Annular space has been pressure grouted. Slide gate on the waterside (WS) end. Gate valve at the landside (LS) toe. (Permit No. 4491, 1964 - Blackmore). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.74)].
FS Date: 7/31/2019 1:44:00 PM

Photo 1 of 3 : UCIP_FA_2019_56040_74665.jpg

concrete headwall found near LS toe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.75** | Rating ** | M | Issue No. | **215 (cont)** |
| LM End | **8.75** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.251561 ° | 39.251561 ° |
| | | | | -121.997875 ° | -121.997875 ° |
| DWR ID | 17353 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17353
FS_ID:56040
EP_NO: 4491
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been downgraded from Urgent to Non-Urgent, modifications have been made to pipe. No permit has been identified authorizing the 4-inch sleeved pipe through the 24-inch pipe. Recommend auditing record to determine current owner. Recommend monitoring WS toe where pipe shows signs of deterioration. (O. Magana - DWR UCIP)08/30/2018 Same as last inspection; could not find LS pipe end so recommend internal pipe inspection. Crossing to remain Urgent (D. Sanoski - DWR UCIP).04/19/2017 4in. pipe still showing signs of deterioration near WS toe. (DWR Sutter Yard- Afreitag)10/31/2016 Pipe still exposed along the WS toe and is rusted and corroded. If it is still in use by the owner then it should be rebuilt.(DWR Sutter Yard-Afreitag)06/13/2016 Pipe was dug up on WS and photographed. It was originally selected for internal inspection but was unable to be as there was no access to the inside of the 4" pipe. (DWR Sutter Yard - afreitag)04/14/2016 Signs of corrosion on pipe and valve on LS. Pipe in use according to Bryan Reniff of Sutter Yard. (DWR UCIP - kfazel)08/28/2015 Pipe was dug up and located on the WS levee toe. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/23/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/11/2012 Only abandoned slide gate found on WS. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 4-inch steel drainage pipe sleeved through 24-inch corrugated metal pipe through the levee, 16.7 feet below the crown. Annular space has been pressure grouted. Slide gate on the waterside (WS) end. Gate valve at the landside (LS) toe. (Permit No. 4491, 1964 - Blackmore). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.74)].
FS Date: 7/31/2019 1:44:00 PM

Photo 2 of 3 : UCIP_FA_2019_56040_74664.jpg

View of pipe dug up near WS toe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

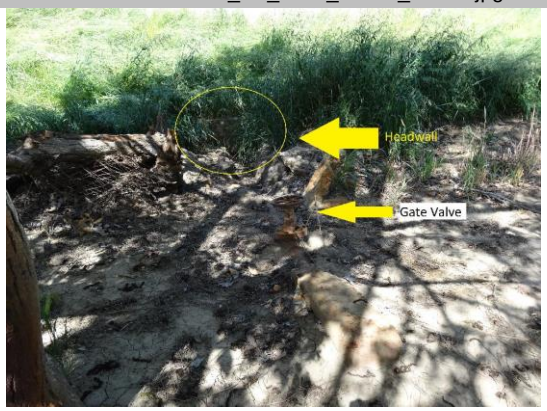
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.75** | Rating ** | M | Issue No. | **215 (cont)** |
| LM End | **8.75** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.251561 ° | 39.251561 ° |
| | | | | -121.997875 ° | -121.997875 ° |
| DWR ID | 17353 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17353
FS_ID:56040
EP_NO: 4491
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been downgraded from Urgent to Non-Urgent, modifications have been made to pipe. No permit has been identified authorizing the 4-inch sleeved pipe through the 24-inch pipe. Recommend auditing record to determine current owner. Recommend monitoring WS toe where pipe shows signs of deterioration. (O. Magana - DWR UCIP)08/30/2018 Same as last inspection; could not find LS pipe end so recommend internal pipe inspection. Crossing to remain Urgent (D. Sanoski - DWR UCIP).04/19/2017 4in. pipe still showing signs of deterioration near WS toe. (DWR Sutter Yard- Afreitag)10/31/2016 Pipe still exposed along the WS toe and is rusted and corroded. If it is still in use by the owner then it should be rebuilt.(DWR Sutter Yard-Afreitag)06/13/2016 Pipe was dug up on WS and photographed. It was originally selected for internal inspection but was unable to be as there was no access to the inside of the 4" pipe. (DWR Sutter Yard - afreitag)04/14/2016 Signs of corrosion on pipe and valve on LS. Pipe in use according to Bryan Reniff of Sutter Yard. (DWR UCIP - kfazel)08/28/2015 Pipe was dug up and located on the WS levee toe. (DWR Sutter Yard - afreitag)06/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/23/2013 Same as last inspection. (DWR Sutter Yard - afreitag)12/11/2012 Only abandoned slide gate found on WS. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 4-inch steel drainage pipe sleeved through 24-inch corrugated metal pipe through the levee, 16.7 feet below the crown. Annular space has been pressure grouted. Slide gate on the waterside (WS) end. Gate valve at the landside (LS) toe. (Permit No. 4491, 1964 - Blackmore). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.74)].
FS Date: 7/31/2019 1:44:00 PM

Photo 3 of 3 : UCIP_FA_2019_56040_75051.jpg




LS view of toe: corroded pipe and gate valve; concrete headwall

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.75** | Rating ** | U | Issue No. | **2** |
| LM End | **8.75** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.252260 ° | 39.252260 ° |
| | | | | -121.997721 ° | -121.997721 ° |
| DWR ID | DWR_ST0003_01_s _ 2012_2 | | | | |

**Comment Code**

BU : Building

**Inspector Comment**

Photo 1 of 1 : FA_2019_ST0003_264_2_20190822_00001.jpg

View of the building next to the toe of the levee.

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.77** | Rating ** | C | Issue No. | **119** |
| LM End | **8.77** | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.252515 ° | 39.252515 ° |
| | | | | -121.997678 ° | -121.997678 ° |
| DWR ID | DWR_ST0003_01_s _ 2019_119 | | | | |

**Comment Code**

TR : Tree or limb

**Inspector Comment**

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.78** | Rating ** | M | Issue No. | **216** |
| LM End | **8.78** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.252119 ° | 39.252119 ° |
| | | | | -121.997762 ° | -121.997762 ° |
| DWR ID | 17354 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17354
FS_ID:56041
EP_NO: 9523
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been abandoned. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Need to audit record to determine current owner (ABO issued). 12-inch is buried on the WS and unable to inspect condition of slide gate. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)06/13/2016 61.5ft of this pipe starting from the WS slide gate was internally cleaned and camera inspected by Nor-Cal Pipeline Services on 10/30/2015 Only the pipe segment that was in the levee prism was cleaned and inspected. LS pipe end is still not found.04/16/2016 Bryan Reniff informed us that screw gate has been repaired. Flap gate and screw gate appear new.08/28/2015 Pipe files was mixed up with the pipe at LM8.743. Pipe is abandoned with a damaged screw gate on the WS toe of levee.06/30/2014 Unable to locate.12/18/2013 Unable to locate.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 12-inch corrugated metal drainage pipe through the levee, invert 12.5 feet below the crown, not found in 2016. Slide gate on the waterside (WS), found in 2016. (12-inch pipe [HLM 8.78] authorized under Automatic Board Order (ABO) issued as Permit No. 9523, 1974 - Blackmore). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.78)].
FS Date: 7/31/2019 1:48:00 PM

Photo 1 of 3 : UCIP_FA_2019_56041_47216.jpg

WS view: overview of slide gate on steel structure (belongs to crossing at CLM-8.782)

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.78** | Rating ** | M | Issue No. | **216 (cont)** |
| LM End | **8.78** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.252119 ° | 39.252119 ° |
| | | | | -121.997762 ° | -121.997762 ° |
| DWR ID | 17354 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17354
FS_ID:56041
EP_NO: 9523
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been abandoned. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Need to audit record to determine current owner (ABO issued). 12-inch is buried on the WS and unable to inspect condition of slide gate. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)06/13/2016 61.5ft of this pipe starting from the WS slide gate was internally cleaned and camera inspected by Nor-Cal Pipeline Services on 10/30/2015 Only the pipe segment that was in the levee prism was cleaned and inspected. LS pipe end is still not found.04/16/2016 Bryan Reniff informed us that screw gate has been repaired. Flap gate and screw gate appear new.08/28/2015 Pipe files was mixed up with the pipe at LM8.743. Pipe is abandoned with a damaged screw gate on the WS toe of levee.06/30/2014 Unable to locate.12/18/2013 Unable to locate.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 12-inch corrugated metal drainage pipe through the levee, invert 12.5 feet below the crown, not found in 2016. Slide gate on the waterside (WS), found in 2016. (12-inch pipe [HLM 8.78] authorized under Automatic Board Order (ABO) issued as Permit No. 9523, 1974 - Blackmore). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.78)].
FS Date: 7/31/2019 1:48:00 PM

Photo 2 of 3 : UCIP_FA_2019_56041_74668.jpg

view of screwgate on WS toe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.78** | Rating ** | M | Issue No. | **216 (cont)** |
| LM End | **8.78** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.252119 ° | 39.252119 ° |
| | | | | -121.997762 ° | -121.997762 ° |
| DWR ID | 17354 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17354
FS_ID:56041
EP_NO: 9523
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been abandoned. No other information is available about potential abandoned pipe or method of abandonment. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. Need to audit record to determine current owner (ABO issued). 12-inch is buried on the WS and unable to inspect condition of slide gate. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)06/13/2016 61.5ft of this pipe starting from the WS slide gate was internally cleaned and camera inspected by Nor-Cal Pipeline Services on 10/30/2015 Only the pipe segment that was in the levee prism was cleaned and inspected. LS pipe end is still not found.04/16/2016 Bryan Reniff informed us that screw gate has been repaired. Flap gate and screw gate appear new.08/28/2015 Pipe files was mixed up with the pipe at LM8.743. Pipe is abandoned with a damaged screw gate on the WS toe of levee.06/30/2014 Unable to locate.12/18/2013 Unable to locate.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 12-inch corrugated metal drainage pipe through the levee, invert 12.5 feet below the crown, not found in 2016. Slide gate on the waterside (WS), found in 2016. (12-inch pipe [HLM 8.78] authorized under Automatic Board Order (ABO) issued as Permit No. 9523, 1974 - Blackmore). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.78)].
FS Date: 7/31/2019 1:48:00 PM

Photo 3 of 3 : UCIP_FA_2019_56041_74667.jpg

view of screwgate on WS toe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.81** | Rating ** | M | Issue No. | **153** |
| LM End | **8.81** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.253024 ° | 39.253024 ° |
| | | | | -121.997529 ° | -121.997529 ° |
| DWR ID | DWR_ST0003_01_f _ 2019_153 | | | | |

Comment Code

PR : Prunings

Inspector Comment

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **8.92** | Rating ** | N | Issue No. | **92** |
| LM End | **8.92** | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 39.254563 ° | 39.254563 ° |
| | | | | -121.997493 ° | -121.997493 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_92 | | | | |

Comment Code

T5 : Tree stumps.

Inspector Comment

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **9.03** | Rating ** | N | Issue No. | **91** |
| LM End | **9.03** | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 39.256141 ° | 39.256141 ° |
| | | | | -121.997785 ° | -121.997785 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_91 | | | | |

Comment Code

T5 : Tree stumps.

Inspector Comment

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **9.17** | Rating ** | N | Issue No. | **90** |
| LM End | **9.17** | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 39.257688 ° | 39.257688 ° |
| | | | | -121.999331 ° | -121.999331 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_90 | | | | |

Comment Code

T5 : Tree stumps.

Inspector Comment

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **9.22** | Rating ** | C | Issue No. | **120** |
| LM End | **9.22** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.257924 ° | 39.257924 ° |
| | | | | -122.000231 ° | -122.000231 ° |
| DWR ID | DWR_ST0003_01_s _ 2019_120 | | | | |

Comment Code

PR : Prunings

Inspector Comment

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **9.29** | Rating ** | C | Issue No. | **121** |
| LM End | **9.29** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.258854 ° | 39.258854 ° |
| | | | | -122.000705 ° | -122.000705 ° |
| DWR ID | DWR_ST0003_01_s _ 2019_121 | | | | |

Comment Code

TR : Tree or limb

Inspector Comment

The fallen tree should be removed from the waterside slope.

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **9.37** | Rating ** | M | Issue No. | **217** |
| LM End | **9.37** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.260034 ° | 39.260034 ° |
| | | | | -122.000970 ° | -122.000970 ° |
| DWR ID | 17355 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17355
FS_ID:55554
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated to Non-Urgent; internal inspection found some issues with pipe. Pipe has been abandoned since 2012 (both inlet/outlet have been covered to avoid soil buildup inside). Record will remain in UCIP's list as part of future inspections until the pipe is properly removed or abandoned according to Title 23 requirements. Need to clarify ownership for this crossing. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)06/13/2016 Pipe was internally cleaned and camera inspected on 10/30/2015 by Nor-Cal Pipeline Services. WS cap was removed and 100.6ft of pipe were inspected starting from the WS opening. Inspection revealed rusting but no visible holes or other deterioration were found. Pipe was recapped after the inspection. This pipe is always visible so no new photos were taken during the inspection.06/09/2016 Khalida Fazel of UCIP requests that any photos of the pipe when it was exposed for a video inspection be kindly uploaded here.04/01/2015 Pipe is in same condition. It has been selected for an internal camera inspection. New 06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/11/2012 CMP pipe on WS capped with steel plate. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Slide gate on the landside (LS) headwall. Steel plate welded on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 9.4)].
FS Date: 7/31/2019 1:54:00 PM

Photo 1 of 3 : UCIP_FA_2019_55554_47242.jpg

WS view: overview

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **9.37** | Rating ** | M | Issue No. | **217 (cont)** |
| LM End | **9.37** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.260034 ° | 39.260034 ° |
| | | | | -122.000970 ° | -122.000970 ° |
| DWR ID | 17355 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17355
FS_ID:55554
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated to Non-Urgent; internal inspection found some issues with pipe. Pipe has been abandoned since 2012 (both inlet/outlet have been covered to avoid soil buildup inside). Record will remain in UCIP's list as part of future inspections until the pipe is properly removed or abandoned according to Title 23 requirements. Need to clarify ownership for this crossing. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)06/13/2016 Pipe was internally cleaned and camera inspected on 10/30/2015 by Nor-Cal Pipeline Services. WS cap was removed and 100.6ft of pipe were inspected starting from the WS opening. Inspection revealed rusting but no visible holes or other deterioration were found. Pipe was recapped after the inspection. This pipe is always visible so no new photos were taken during the inspection.06/09/2016 Khalida Fazel of UCIP requests that any photos of the pipe when it was exposed for a video inspection be kindly uploaded here.04/01/2015 Pipe is in same condition. It has been selected for an internal camera inspection. New 06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/11/2012 CMP pipe on WS capped with steel plate. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Slide gate on the landside (LS) headwall. Steel plate welded on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 9.4)].
FS Date: 7/31/2019 1:54:00 PM

Photo 2 of 3 : UCIP_FA_2019_55554_47241.jpg

WS view: overview of CMP pipe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **9.37** | Rating ** | M | Issue No. | **217 (cont)** |
| LM End | **9.37** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.260034 ° | 39.260034 ° |
| | | | | -122.000970 ° | -122.000970 ° |
| DWR ID | 17355 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17355
FS_ID:55554
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated to Non-Urgent; internal inspection found some issues with pipe. Pipe has been abandoned since 2012 (both inlet/outlet have been covered to avoid soil buildup inside). Record will remain in UCIP's list as part of future inspections until the pipe is properly removed or abandoned according to Title 23 requirements. Need to clarify ownership for this crossing. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)06/13/2016 Pipe was internally cleaned and camera inspected on 10/30/2015 by Nor-Cal Pipeline Services. WS cap was removed and 100.6ft of pipe were inspected starting from the WS opening. Inspection revealed rusting but no visible holes or other deterioration were found. Pipe was recapped after the inspection. This pipe is always visible so no new photos were taken during the inspection.06/09/2016 Khalida Fazel of UCIP requests that any photos of the pipe when it was exposed for a video inspection be kindly uploaded here.04/01/2015 Pipe is in same condition. It has been selected for an internal camera inspection. New 06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/11/2012 CMP pipe on WS capped with steel plate. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Slide gate on the landside (LS) headwall. Steel plate welded on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 9.4)].
FS Date: 7/31/2019 1:54:00 PM

Photo 3 of 3 : UCIP_FA_2019_55554_47240.jpg

WS view: capped CMP pipe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **9.74** | Rating ** | C | Issue No. | **113** |
| LM End | **9.74** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.264740 ° | 39.264740 ° |
| | | | | -121.998288 ° | -121.998288 ° |
| DWR ID | DWR_ST0003_01_s _ 2018_113 | | | | |

**Comment Code**

PR : Prunings

**Inspector Comment**

Remove the prunings from the landside toe.

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **9.75** | Rating ** | M | Issue No. | **218** |
| LM End | **9.75** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.264888 ° | 39.264888 ° |
| | | | | -121.998224 ° | -121.998224 ° |
| DWR ID | 17356 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17356
FS_ID:55555
EP_NO: 1082
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent due to modifications made to the structure. No permit was found authorizing the modifications to this structure. Pipe was running during inspection and no integrity issues were observed. Permit number 1082 does not clearly define what was installed under permit. Need to coordinate with the CVFPB to obtain updated information regarding the current owner. (O. Magana - DWR UCIP)04/19/2017 Crossing appears to be in good condition. Minor sediment build up in LS outlet. (DWR Sutter Yard-Afreitag)10/31/2016 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)06/01/2016 Crossing appears to be in good condition.04/01/2015 Same as last inspection. 06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/11/2012 Depression around concrete surge box on WS. It requires detailed investigation or info from owner of this crossing about the depression. Construction of service road might have caused this depression. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: 48-inch corrugated metal irrigation pipe angles (45 degrees) through the levee, 17 feet below the crown. Slide gate in a surge box on the waterside (WS) end. Service poles and meter boxes on the WS slope. Pump on the WS toe. (Permit No. 1082, 1946 - Wilber). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 9.77)].
FS Date: 7/31/2019 10:21:00 AM

Photo 1 of 3 : UCIP_FA_2019_55555_47246.jpg

Crown view: overview (both sides of the levee)

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **9.75** | Rating ** | M | Issue No. | **218 (cont)** |
| LM End | **9.75** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.264888 ° | 39.264888 ° |
| | | | | -121.998224 ° | -121.998224 ° |
| DWR ID | 17356 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17356
FS_ID:55555
EP_NO: 1082
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent due to modifications made to the structure. No permit was found authorizing the modifications to this structure. Pipe was running during inspection and no integrity issues were observed. Permit number 1082 does not clearly define what was installed under permit. Need to coordinate with the CVFPB to obtain updated information regarding the current owner. (O. Magana - DWR UCIP)04/19/2017 Crossing appears to be in good condition. Minor sediment build up in LS outlet. (DWR Sutter Yard-Afreitag)10/31/2016 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)06/01/2016 Crossing appears to be in good condition.04/01/2015 Same as last inspection. 06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/11/2012 Depression around concrete surge box on WS. It requires detailed investigation or info from owner of this crossing about the depression. Construction of service road might have caused this depression. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: 48-inch corrugated metal irrigation pipe angles (45 degrees) through the levee, 17 feet below the crown. Slide gate in a surge box on the waterside (WS) end. Service poles and meter boxes on the WS slope. Pump on the WS toe. (Permit No. 1082, 1946 - Wilber). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 9.77)].
FS Date: 7/31/2019 10:21:00 AM

Photo 2 of 3 : UCIP_FA_2019_55555_47245.jpg

WS view: overview

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **9.75** | Rating ** | M | Issue No. | **218 (cont)** |
| LM End | **9.75** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.264888 ° | 39.264888 ° |
| | | | | -121.998224 ° | -121.998224 ° |
| DWR ID | 17356 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17356
FS_ID:55555
EP_NO: 1082
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent due to modifications made to the structure. No permit was found authorizing the modifications to this structure. Pipe was running during inspection and no integrity issues were observed. Permit number 1082 does not clearly define what was installed under permit. Need to coordinate with the CVFPB to obtain updated information regarding the current owner. (O. Magana - DWR UCIP)04/19/2017 Crossing appears to be in good condition. Minor sediment build up in LS outlet. (DWR Sutter Yard-Afreitag)10/31/2016 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)06/01/2016 Crossing appears to be in good condition.04/01/2015 Same as last inspection. 06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/11/2012 Depression around concrete surge box on WS. It requires detailed investigation or info from owner of this crossing about the depression. Construction of service road might have caused this depression. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: 48-inch corrugated metal irrigation pipe angles (45 degrees) through the levee, 17 feet below the crown. Slide gate in a surge box on the waterside (WS) end. Service poles and meter boxes on the WS slope. Pump on the WS toe. (Permit No. 1082, 1946 - Wilber). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 9.77)].
FS Date: 7/31/2019 10:21:00 AM

Photo 3 of 3 : UCIP_FA_2019_55555_47244.jpg

WS view: concrete surge box and pump.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **10.14** | Rating ** | C | Issue No. | **123** |
| LM End | **10.14** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.269581 ° | 39.269581 ° |
| | | | | -121.997579 ° | -121.997579 ° |
| DWR ID | DWR_ST0003_01_s _ 2019_123 | | | | |

**Comment Code**

TR : Tree or limb

**Inspector Comment**

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **10.27** | Rating ** | U | Issue No. | **219** |
| LM End | **10.27** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.270351 ° | 39.270351 ° |
| | | | | -121.999183 ° | -121.999183 ° |
| DWR ID | 17357 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17357
FS_ID:55557
EP_NO: 9518
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Urgent due to the slide gate removed from the CMP riser located on the WS. There is currently no way to control flow from the WS to LS. Need to audit this record to accurately determine current owner, permits issued for pipe and pump station, schematics of water distribution through this area, and to obtain maintenance records for both 48-inch pipe and pump station. Coordinates were changed from 39.270492, -122.001306 to 39.270351, -121.999183 to reflect correct structure point. (O. Magana - DWR UCIP)04/19/2017 Pipe appears to be in good condition. There is some damage to the WS headwall but it should not affect the operation of the pipe or the levee integrity. (DWR Sutter Yard- Afreitag)10/31/2016 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)06/01/2016 Crossing appears to be in good condition.04/01/2015 Pipe is in good condition but the WS concrete headwall is damaged but it is not affecting the levee or operation of the pipe. Two pumps 600 ft upstream of CMP crossing. Switch panel on separate shed.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 48-inch corrugated metal irrigation pipe through the levee, 17 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Water transfer ditch from the pump on the riverbank, located about 600 feet upstream (39.2705001, -122.0010317), to the pipe. Discharges into a concrete box on the landside (LS) toe. (48-inch pipe [HLM 10.27] and water transfer ditch from pump on river-bank to pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9518, 1974 - Lewis). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.27)].
FS Date: 7/31/2019 1:54:00 PM

Photo 1 of 3 : UCIP_FA_2019_55557_47261.jpg

WS view: overview of pump station

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **10.27** | Rating ** | U | Issue No. | **219 (cont)** |
| LM End | **10.27** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.270351 ° | 39.270351 ° |
| | | | | -121.999183 ° | -121.999183 ° |
| DWR ID | 17357 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17357
FS_ID:55557
EP_NO: 9518
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Urgent due to the slide gate removed from the CMP riser located on the WS. There is currently no way to control flow from the WS to LS. Need to audit this record to accurately determine current owner, permits issued for pipe and pump station, schematics of water distribution through this area, and to obtain maintenance records for both 48-inch pipe and pump station. Coordinates were changed from 39.270492, -122.001306 to 39.270351, -121.999183 to reflect correct structure point. (O. Magana - DWR UCIP)04/19/2017 Pipe appears to be in good condition. There is some damage to the WS headwall but it should not affect the operation of the pipe or the levee integrity. (DWR Sutter Yard- Afreitag)10/31/2016 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)06/01/2016 Crossing appears to be in good condition.04/01/2015 Pipe is in good condition but the WS concrete headwall is damaged but it is not affecting the levee or operation of the pipe. Two pumps 600 ft upstream of CMP crossing. Switch panel on separate shed.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 48-inch corrugated metal irrigation pipe through the levee, 17 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Water transfer ditch from the pump on the riverbank, located about 600 feet upstream (39.2705001, -122.0010317), to the pipe. Discharges into a concrete box on the landside (LS) toe. (48-inch pipe [HLM 10.27] and water transfer ditch from pump on river-bank to pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9518, 1974 - Lewis). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.27)].
FS Date: 7/31/2019 1:54:00 PM

Photo 2 of 3 : UCIP_FA_2019_55557_47260.jpg

WS view: water conveyor (PVC pipe and ditch)

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **10.27** | Rating ** | U | Issue No. | **219 (cont)** |
| LM End | **10.27** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.270351 ° | 39.270351 ° |
| | | | | -121.999183 ° | -121.999183 ° |
| DWR ID | 17357 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17357
FS_ID:55557
EP_NO: 9518
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Urgent due to the slide gate removed from the CMP riser located on the WS. There is currently no way to control flow from the WS to LS. Need to audit this record to accurately determine current owner, permits issued for pipe and pump station, schematics of water distribution through this area, and to obtain maintenance records for both 48-inch pipe and pump station. Coordinates were changed from 39.270492, -122.001306 to 39.270351, -121.999183 to reflect correct structure point. (O. Magana - DWR UCIP)04/19/2017 Pipe appears to be in good condition. There is some damage to the WS headwall but it should not affect the operation of the pipe or the levee integrity. (DWR Sutter Yard- Afreitag)10/31/2016 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)06/01/2016 Crossing appears to be in good condition.04/01/2015 Pipe is in good condition but the WS concrete headwall is damaged but it is not affecting the levee or operation of the pipe. Two pumps 600 ft upstream of CMP crossing. Switch panel on separate shed.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 48-inch corrugated metal irrigation pipe through the levee, 17 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Water transfer ditch from the pump on the riverbank, located about 600 feet upstream (39.2705001, -122.0010317), to the pipe. Discharges into a concrete box on the landside (LS) toe. (48-inch pipe [HLM 10.27] and water transfer ditch from pump on river-bank to pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9518, 1974 - Lewis). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.27)].
FS Date: 7/31/2019 1:54:00 PM

Photo 3 of 3 : UCIP_FA_2019_55557_47257.jpg

WS view: overview of water conveyor and crossing

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **10.28** | Rating ** | M | Issue No. | **154** |
| LM End | **10.28** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.270419 ° | 39.270419 ° |
| | | | | -121.999887 ° | -121.999887 ° |
| DWR ID | DWR_ST0003_01_f _ 2019_154 | | | | |

**Comment Code**

PR : Prunings

**Inspector Comment**

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **10.35** | Rating ** | M | Issue No. | **220** |
| LM End | **10.35** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.270492 ° | 39.270492 ° |
| | | | | -122.001306 ° | -122.001306 ° |
| DWR ID | 17358 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17358
FS_ID:55558
EP_NO: 9517
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent; slide gate handle is still damage and CMP riser lid needs to be repaired. Recommend auditing this record to determine current owner for 48-inch pipe and to obtain maintenance records for ditch and pipes running along LS toe. (O. Magana - DWR UCIP)04/19/2017 No WS end found/ slide gate handle broken. (DWR Sutter Yard- Afreitag)10/31/2016 Slide gate handle is broken and no WS pipe end can be located. (DWR Sutter Yard- Afreitag)06/01/2016 WS slide gate handle is still broken. No WS pipe end was found.04/01/2015 Slide gate handle is still broken. The rest of the pipe appears in good condition. Broken slide gate handle found on WS.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Slide gate in a concrete distribution box on the landside (LS) toe. (48-inch pipe [HLM 10.39] authorized under Automatic Board Order (ABO) issued as Permit No. 9517, 1974 - Griffin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.47)].
FS Date: 7/31/2019 1:55:00 PM

Photo 1 of 3 : UCIP_FA_2019_55558_47263.jpg

Crown view: overview (both sides of the levee)

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **10.35** | Rating ** | M | Issue No. | **220 (cont)** |
| LM End | **10.35** | Issue Type + | Ma | Location * | |

Photo 2 of 3 : UCIP_FA_2019_55558_47262.jpg

WS view: overview of CMP riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **10.35** | Rating ** | M | Issue No. | **220 (cont)** |
| LM End | **10.35** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.270492 ° | 39.270492 ° |
| | | | | -122.001306 ° | -122.001306 ° |
| DWR ID | 17358 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17358
FS_ID:55558
EP_NO: 9517
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent; slide gate handle is still damage and CMP riser lid needs to be repaired. Recommend auditing this record to determine current owner for 48-inch pipe and to obtain maintenance records for ditch and pipes running along LS toe. (O. Magana - DWR UCIP)04/19/2017 No WS end found/ slide gate handle broken. (DWR Sutter Yard- Afreitag)10/31/2016 Slide gate handle is broken and no WS pipe end can be located. (DWR Sutter Yard- Afreitag)06/01/2016 WS slide gate handle is still broken. No WS pipe end was found.04/01/2015 Slide gate handle is still broken. The rest of the pipe appears in good condition. Broken slide gate handle found on WS.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Slide gate in a concrete distribution box on the landside (LS) toe. (48-inch pipe [HLM 10.39] authorized under Automatic Board Order (ABO) issued as Permit No. 9517, 1974 - Griffin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.47)].
FS Date: 7/31/2019 1:55:00 PM

Photo 3 of 3 : UCIP_FA_2019_55558_47268.jpg

WS view: inside CMP riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **10.36** | Rating ** | M | Issue No. | **5** |
| LM End | **10.36** | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.270503 ° | 39.270503 ° |
| | | | | -122.001339 ° | -122.001339 ° |
| DWR ID | DWR_ST0003_01_s _ 2012_5 | | | | |

**Comment Code**

V4 : Elderberries are blocking visibility and flood fight capability.

**Inspector Comment**

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

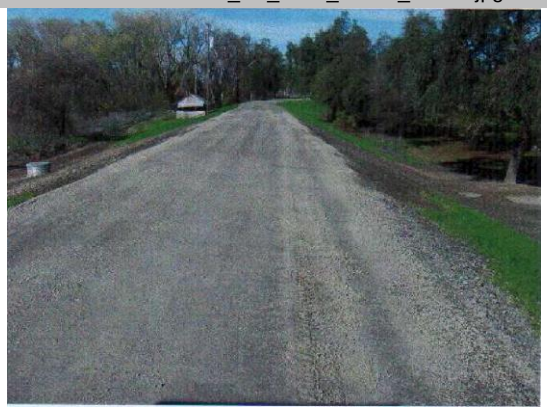
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **10.51** | Rating ** | M | Issue No. | **221** |
| LM End | **10.51** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.271960 ° | 39.271960 ° |
| | | | | -122.003447 ° | -122.003447 ° |
| DWR ID | 17507 | | | | |

Comment Code

Inspector Comment

DS_ID:17507
FS_ID:55560
EP_NO: 17860
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 11/08/2019 The record has been updated to Non-Urgent based on the 07-31-2019 inspection, pipe has been abandoned. Pump has been removed from the WS. Need to contact owner to determine status of pipe. If pipe is no longer in use, the owner will need to coordinate with the CVFPB to properly remove or abandon the pipe per Title 23 requirements. (O. Magana - DWR UCIP)09/17/2019 Spoke to T. Davis with Davis Machine Shop and this pipe is still present through the levee. This pipe was previously referenced under DSID 17371 which was incorrect, pipe associated with DSID 17371 was removed in 2004. Coordinates have been updated from 39.278517, -122.014589 to 39.271960, -122.003447 based on the confirmation from Mr. Davis with Davis Machine Shop that the 18-inch irrigation pipe was installed at this location. Inspection notes from 07-31-2019 and photos have been transferred from DSID 17371 to DSID 17507. During the inspection completed in July 2019, no issues were found on WS or LS. Pump and pipe daylight were not visible due to the dense vegetation along the berm slope. Assume pump and switch panel are still not connected. Need to contact owner to determine if crossing has been abandoned. (O. Magana - DWR UCIP)
07/31/2019 Inspection notes previously recorded under DSID 17371 were transferred to DSID 17507 (correct record). (O. Magana - DWR UCIP)04/19/2017 Abandoned - needs to be done so properly. (A. Freitag - DWR Sutter Yard)10/31/2016 Abandoned. (A. Freitag - DWR Sutter Yard)06/01/2016 Abandoned crossing. (A. Freitag - DWR Sutter Yard)04/02/2015 Same as last inspection. Need to verify type of abandonment. (A. Freitag - DWR Sutter Yard) 06/30/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/18/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/23/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/11/2012 Pump house not found on waterside on the levee. Looks abandoned as switch panel found without pump. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 18-inch asphalt coated steel irrigation pipe through the levee, at an unknown depth. Pump on waterside (WS). Positive closure device (butterfly valve) inside 36-inch corrugated metal riser on WS. Two concrete cutoff walls around pipe. (18-inch pipe authorized under Permit No. 17860, 2004 - J. Griffin; previous existing 18-inch pipe was removed under this permit. Note that permit incorrectly states pipe was installed in MA0001, pipe was installed in ST0003)
FS Date: 7/31/2019 2:00:00 PM

Photo 1 of 3 : UCIP_FA_2019_55560_75194.jpg



Permit No. 17860 (Nov 2004): looking upstream after removal of levee section for replacement of 18-inch pipe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **10.51** | Rating ** | M | Issue No. | **221 (cont)** |
| LM End | **10.51** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.271960 ° | 39.271960 ° |
| | | | | -122.003447 ° | -122.003447 ° |
| DWR ID | 17507 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17507
FS_ID:55560
EP_NO: 17860
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 11/08/2019 The record has been updated to Non-Urgent based on the 07-31-2019 inspection, pipe has been abandoned. Pump has been removed from the WS. Need to contact owner to determine status of pipe. If pipe is no longer in use, the owner will need to coordinate with the CVFPB to properly remove or abandon the pipe per Title 23 requirements. (O. Magana - DWR UCIP)09/17/2019 Spoke to T. Davis with Davis Machine Shop and this pipe is still present through the levee. This pipe was previously referenced under DSID 17371 which was incorrect, pipe associated with DSID 17371 was removed in 2004. Coordinates have been updated from 39.278517, -122.014589 to 39.271960, -122.003447 based on the confirmation from Mr. Davis with Davis Machine Shop that the 18-inch irrigation pipe was installed at this location. Inspection notes from 07-31-2019 and photos have been transferred from DSID 17371 to DSID 17507. During the inspection completed in July 2019, no issues were found on WS or LS. Pump and pipe daylight were not visible due to the dense vegetation along the berm slope. Assume pump and switch panel are still not connected. Need to contact owner to determine if crossing has been abandoned. (O. Magana - DWR UCIP)
07/31/2019 Inspection notes previously recorded under DSID 17371 were transferred to DSID 17507 (correct record). (O. Magana - DWR UCIP)04/19/2017 Abandoned - needs to be done so properly. (A. Freitag - DWR Sutter Yard)10/31/2016 Abandoned. (A. Freitag - DWR Sutter Yard)06/01/2016 Abandoned crossing. (A. Freitag - DWR Sutter Yard)04/02/2015 Same as last inspection. Need to verify type of abandonment. (A. Freitag - DWR Sutter Yard) 06/30/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/18/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/23/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/11/2012 Pump house not found on waterside on the levee. Looks abandoned as switch panel found without pump. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 18-inch asphalt coated steel irrigation pipe through the levee, at an unknown depth. Pump on waterside (WS). Positive closure device (butterfly valve) inside 36-inch corrugated metal riser on WS. Two concrete cutoff walls around pipe. (18-inch pipe authorized under Permit No. 17860, 2004 - J. Griffin; previous existing 18-inch pipe was removed under this permit. Note that permit incorrectly states pipe was installed in MA0001, pipe was installed in ST0003)
FS Date: 7/31/2019 2:00:00 PM

Photo 2 of 3 : UCIP_FA_2019_55560_75192.jpg

Permit No. 17860 (Nov 2004): new 18-inch steel pipeline

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **10.51** | Rating ** | M | Issue No. | **221 (cont)** |
| LM End | **10.51** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.271960 ° | 39.271960 ° |
| | | | | -122.003447 ° | -122.003447 ° |
| DWR ID | 17507 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17507
FS_ID:55560
EP_NO: 17860
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 11/08/2019 The record has been updated to Non-Urgent based on the 07-31-2019 inspection, pipe has been abandoned. Pump has been removed from the WS. Need to contact owner to determine status of pipe. If pipe is no longer in use, the owner will need to coordinate with the CVFPB to properly remove or abandon the pipe per Title 23 requirements. (O. Magana - DWR UCIP)09/17/2019 Spoke to T. Davis with Davis Machine Shop and this pipe is still present through the levee. This pipe was previously referenced under DSID 17371 which was incorrect, pipe associated with DSID 17371 was removed in 2004. Coordinates have been updated from 39.278517, -122.014589 to 39.271960, -122.003447 based on the confirmation from Mr. Davis with Davis Machine Shop that the 18-inch irrigation pipe was installed at this location. Inspection notes from 07-31-2019 and photos have been transferred from DSID 17371 to DSID 17507. During the inspection completed in July 2019, no issues were found on WS or LS. Pump and pipe daylight were not visible due to the dense vegetation along the berm slope. Assume pump and switch panel are still not connected. Need to contact owner to determine if crossing has been abandoned. (O. Magana - DWR UCIP)
07/31/2019 Inspection notes previously recorded under DSID 17371 were transferred to DSID 17507 (correct record). (O. Magana - DWR UCIP)04/19/2017 Abandoned - needs to be done so properly. (A. Freitag - DWR Sutter Yard)10/31/2016 Abandoned. (A. Freitag - DWR Sutter Yard)06/01/2016 Abandoned crossing. (A. Freitag - DWR Sutter Yard)04/02/2015 Same as last inspection. Need to verify type of abandonment. (A. Freitag - DWR Sutter Yard) 06/30/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/18/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)07/23/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/11/2012 Pump house not found on waterside on the levee. Looks abandoned as switch panel found without pump. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 18-inch asphalt coated steel irrigation pipe through the levee, at an unknown depth. Pump on waterside (WS). Positive closure device (butterfly valve) inside 36-inch corrugated metal riser on WS. Two concrete cutoff walls around pipe. (18-inch pipe authorized under Permit No. 17860, 2004 - J. Griffin; previous existing 18-inch pipe was removed under this permit. Note that permit incorrectly states pipe was installed in MA0001, pipe was installed in ST0003)
FS Date: 7/31/2019 2:00:00 PM

Photo 3 of 3 : UCIP_FA_2019_55560_75191.jpg

Permit No. 17860 (Nov. 2004): Concrete box where old 18-inch pipe was removed

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **10.55** | Rating ** | M | Issue No. | **222** |
| LM End | **10.55** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.272396 ° | 39.272396 ° |
| | | | | -122.003901 ° | -122.003901 ° |
| DWR ID | 17360 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17360
FS_ID:55561
EP_NO: 9517
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent; signs of potential sink hole/slope failure found on WS berm edge which is over 15 feet from WS toe. Recommend LMA monitor this site to see progression of potential slope failure. Need to contact owner to obtain maintenance records for pumping station. Recommend having owner conduct an internal inspection to determine condition of pipe through the levee and WS berm. (O. Magana - DWR UCIP)04/19/2017 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)10/31/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/01/2016 Crossing appears to be in good condition.04/02/2015 Same as last inspection. 06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/11/2012 A long steel pipe laying in WS berm. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch steel irrigation pipe through the levee, 20.1 feet below the crown. Pump house on the waterside (WS) berm. Concrete distribution box and flap gate on the landside (LS) toe. Water meter in a corrugated metal pipe (CMP) riser on the LS toe. (Automatic Board Order (ABO) issued as Permit No. 9517, 1974 - Griffin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.57)].
FS Date: 7/31/2019 1:58:00 PM

Photo 1 of 3 : UCIP_FA_2019_55561_47277.jpg

Crown view: overview (both sides of the levee)

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **10.55** | Rating ** | M | Issue No. | **222 (cont)** |
| LM End | **10.55** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.272396 ° | 39.272396 ° |
| | | | | -122.003901 ° | -122.003901 ° |
| DWR ID | 17360 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17360
FS_ID:55561
EP_NO: 9517
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent; signs of potential sink hole/slope failure found on WS berm edge which is over 15 feet from WS toe. Recommend LMA monitor this site to see progression of potential slope failure. Need to contact owner to obtain maintenance records for pumping station. Recommend having owner conduct an internal inspection to determine condition of pipe through the levee and WS berm. (O. Magana - DWR UCIP)04/19/2017 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)10/31/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/01/2016 Crossing appears to be in good condition.04/02/2015 Same as last inspection. 06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/11/2012 A long steel pipe laying in WS berm. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch steel irrigation pipe through the levee, 20.1 feet below the crown. Pump house on the waterside (WS) berm. Concrete distribution box and flap gate on the landside (LS) toe. Water meter in a corrugated metal pipe (CMP) riser on the LS toe. (Automatic Board Order (ABO) issued as Permit No. 9517, 1974 - Griffin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.57)].
FS Date: 7/31/2019 1:58:00 PM

Photo 2 of 3 : UCIP_FA_2019_55561_47276.jpg

WS view: overview- pump house

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

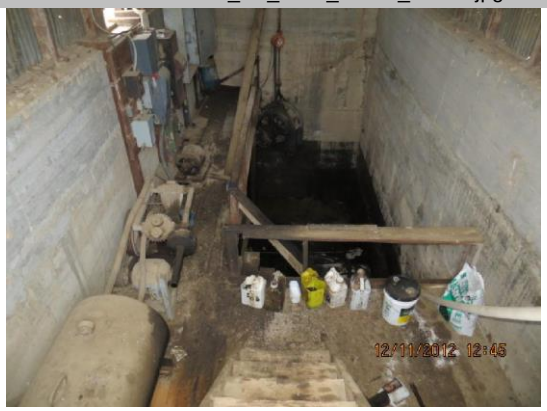
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **10.55** | Rating ** | M | Issue No. | **222 (cont)** |
| LM End | **10.55** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.272396 ° | 39.272396 ° |
| | | | | -122.003901 ° | -122.003901 ° |
| DWR ID | 17360 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17360
FS_ID:55561
EP_NO: 9517
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent; signs of potential sink hole/slope failure found on WS berm edge which is over 15 feet from WS toe. Recommend LMA monitor this site to see progression of potential slope failure. Need to contact owner to obtain maintenance records for pumping station. Recommend having owner conduct an internal inspection to determine condition of pipe through the levee and WS berm. (O. Magana - DWR UCIP)04/19/2017 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)10/31/2016 Crossing appears to be in good condition. (DWR Sutter Yard-AFreitag)06/01/2016 Crossing appears to be in good condition.04/02/2015 Same as last inspection. 06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.12/11/2012 A long steel pipe laying in WS berm. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch steel irrigation pipe through the levee, 20.1 feet below the crown. Pump house on the waterside (WS) berm. Concrete distribution box and flap gate on the landside (LS) toe. Water meter in a corrugated metal pipe (CMP) riser on the LS toe. (Automatic Board Order (ABO) issued as Permit No. 9517, 1974 - Griffin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.57)].
FS Date: 7/31/2019 1:58:00 PM

Photo 3 of 3 : UCIP_FA_2019_55561_47275.jpg




WS view: inside pump house, switch panel on wall

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **10.69** | Rating ** | M | Issue No. | **223** |
| LM End | **10.69** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.274090 ° | 39.274090 ° |
| | | | | -122.005263 ° | -122.005263 ° |
| DWR ID | 17350 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17350
FS_ID:56033
EP_NO: 1369
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 The record remains Non-Urgent; siphon breaker is damage and crossing appears to be abandoned. Need to contact owner to determine status of pipe. If pipe is no longer in use, the owner will need to coordinate with the CVFPB to properly remove or abandon the pipe per Title 23 requirements. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- AFreitag)06/01/2016 Appears to be an abandoned crossing.04/02/2015 Same as last inspection. Looks abandoned and if so should be done so properly. Pump and switch panel not found. Outlet pipe blocked by silt and debris.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel irrigation pipe through the levee, 4 feet below the crown. Siphon breaker on the landside (LS) slope. Concrete distribution box on the LS toe. (Permit No. 1369, 1949 - Griffin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.68)].
FS Date: 7/31/2019 1:59:00 PM

Photo 1 of 3 : UCIP_FA_2019_56033_47284.jpg

Crown view: overview (both sides of the levee)

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **10.69** | Rating ** | M | Issue No. | **223 (cont)** |
| LM End | **10.69** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_56033_47283.jpg

WS view: overview of exposed steel pipe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **10.69** | Rating ** | M | Issue No. | **223 (cont)** |
| LM End | **10.69** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.274090 ° | 39.274090 ° |
| | | | | -122.005263 ° | -122.005263 ° |
| DWR ID | 17350 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17350
FS_ID:56033
EP_NO: 1369
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 The record remains Non-Urgent; siphon breaker is damage and crossing appears to be abandoned. Need to contact owner to determine status of pipe. If pipe is no longer in use, the owner will need to coordinate with the CVFPB to properly remove or abandon the pipe per Title 23 requirements. (O. Magana - DWR UCIP)04/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- AFreitag)06/01/2016 Appears to be an abandoned crossing.04/02/2015 Same as last inspection. Looks abandoned and if so should be done so properly. Pump and switch panel not found. Outlet pipe blocked by silt and debris.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel irrigation pipe through the levee, 4 feet below the crown. Siphon breaker on the landside (LS) slope. Concrete distribution box on the LS toe. (Permit No. 1369, 1949 - Griffin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.68)].
FS Date: 7/31/2019 1:59:00 PM

Photo 3 of 3 : UCIP_FA_2019_56033_47287.jpg

WS view: beyond exposed steel pipe (not accessible)

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **10.99** | Rating ** | M | Issue No. | **224** |
| LM End | **10.99** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.277960 ° | 39.277960 ° |
| | | | | -122.008222 ° | -122.008222 ° |
| DWR ID | 17362 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17362
FS_ID:56034
EP_NO: 9515
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been abandoned. DWR DMP geophysical investigation results confirmed evidence of pipe still likely exists through levee. No OMRR&R will be performed until funding becomes available. This section of the levee will need to be monitored for any integrity issues associated with abandoned pipe. Coordinates have been updated from 39.277837, -122.008081 to 39.277960, -122.008222 based on the geophysical study. Need to review record to clarify ownership. (O. Magana - DWR UCIP)04/19/2017 Abandoned-needs to be done properly. (DWR Sutter Yard- Afreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- AFreitag)06/01/2016 Appears to be an abandoned crossing.04/02/2015 Same as last inspection. Only CMP riser is found. Only CMP riser with slide gate found.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 17.4 feet below the crown, not found in 2015. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. (36-inch pipe [HLM 10.99] authorized under Automatic Board Order (ABO) issued as Permit No. 9515, 1974 - O'Sullivan). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.99)].
FS Date: 7/31/2019 1:59:00 PM

Photo 1 of 3 : UCIP_FA_2019_56034_47291.jpg

WS view: overview of CMP riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **10.99** | Rating ** | M | Issue No. | **224 (cont)** |
| LM End | **10.99** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.277960 ° | 39.277960 ° |
| | | | | -122.008222 ° | -122.008222 ° |
| DWR ID | 17362 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17362
FS_ID:56034
EP_NO: 9515
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been abandoned. DWR DMP geophysical investigation results confirmed evidence of pipe still likely exists through levee. No OMRR&R will be performed until funding becomes available. This section of the levee will need to be monitored for any integrity issues associated with abandoned pipe. Coordinates have been updated from 39.277837, -122.008081 to 39.277960, -122.008222 based on the geophysical study. Need to review record to clarify ownership. (O. Magana - DWR UCIP)04/19/2017 Abandoned-needs to be done properly. (DWR Sutter Yard- Afreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- AFreitag)06/01/2016 Appears to be an abandoned crossing.04/02/2015 Same as last inspection. Only CMP riser is found. Only CMP riser with slide gate found.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 17.4 feet below the crown, not found in 2015. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. (36-inch pipe [HLM 10.99] authorized under Automatic Board Order (ABO) issued as Permit No. 9515, 1974 - O'Sullivan). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.99)].
FS Date: 7/31/2019 1:59:00 PM

Photo 2 of 3 : UCIP_FA_2019_56034_47290.jpg

WS view: CMP riser with slide gate.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **10.99** | Rating ** | M | Issue No. | **224 (cont)** |
| LM End | **10.99** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.277960 ° | 39.277960 ° |
| | | | | -122.008222 ° | -122.008222 ° |
| DWR ID | 17362 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17362
FS_ID:56034
EP_NO: 9515
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been abandoned. DWR DMP geophysical investigation results confirmed evidence of pipe still likely exists through levee. No OMRR&R will be performed until funding becomes available. This section of the levee will need to be monitored for any integrity issues associated with abandoned pipe. Coordinates have been updated from 39.277837, -122.008081 to 39.277960, -122.008222 based on the geophysical study. Need to review record to clarify ownership. (O. Magana - DWR UCIP)04/19/2017 Abandoned-needs to be done properly. (DWR Sutter Yard- Afreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- AFreitag)06/01/2016 Appears to be an abandoned crossing.04/02/2015 Same as last inspection. Only CMP riser is found. Only CMP riser with slide gate found.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 17.4 feet below the crown, not found in 2015. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope, found in 2015. (36-inch pipe [HLM 10.99] authorized under Automatic Board Order (ABO) issued as Permit No. 9515, 1974 - O'Sullivan). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.99)].
FS Date: 7/31/2019 1:59:00 PM

Photo 3 of 3 : UCIP_FA_2019_56034_83342.jpg

Overview of levee looking u/s towards pipe crossing.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **11.50** | Rating ** | M | Issue No. | **225** |
| LM End | **11.50** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.279715 ° | 39.279715 ° |
| | | | | -122.016889 ° | -122.016889 ° |
| DWR ID | 17363 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17363
FS_ID:55566
EP_NO: 9516
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been abandoned. DWR DMP geophysical investigation results confirmed evidence of pipe still likely exists through levee. No OMRR&R will be performed until funding becomes available. This section of the levee will need to be monitored for any integrity issues associated with abandoned pipe. Coordinates have been updated from 39.279691, -122.016862 to 39.279715, -122.016889 based on the geophysical study. Need to review record to clarify ownership. (O. Magana - DWR UCIP)04/19/2017 Abandoned-needs to be done properly. (DWR Sutter Yard- Afreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- AFreitag)06/01/2016 Appears to be an abandoned crossing.04/02/2015 Same as last inspection. Only slide gate steel structure found.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 16.8 feet below the crown, not found in 2015. Slide gate at the waterside (WS) end, found in 2015. (24-inch pipe [HLM 11.5] authorized under Automatic Board Order (ABO) issued as Permit No. 9516, 1974 - Cone). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 11.5)].
FS Date: 7/31/2019 2:00:00 PM

Photo 1 of 3 : UCIP_FA_2019_55566_47294.jpg

WS view: overview of slide gate on steel structure

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **11.50** | Rating ** | M | Issue No. | **225 (cont)** |
| LM End | **11.50** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.279715 ° | 39.279715 ° |
| | | | | -122.016889 ° | -122.016889 ° |
| DWR ID | 17363 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17363
FS_ID:55566
EP_NO: 9516
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been abandoned. DWR DMP geophysical investigation results confirmed evidence of pipe still likely exists through levee. No OMRR&R will be performed until funding becomes available. This section of the levee will need to be monitored for any integrity issues associated with abandoned pipe. Coordinates have been updated from 39.279691, -122.016862 to 39.279715, -122.016889 based on the geophysical study. Need to review record to clarify ownership. (O. Magana - DWR UCIP)04/19/2017 Abandoned-needs to be done properly. (DWR Sutter Yard- Afreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- AFreitag)06/01/2016 Appears to be an abandoned crossing.04/02/2015 Same as last inspection. Only slide gate steel structure found.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 16.8 feet below the crown, not found in 2015. Slide gate at the waterside (WS) end, found in 2015. (24-inch pipe [HLM 11.5] authorized under Automatic Board Order (ABO) issued as Permit No. 9516, 1974 - Cone). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 11.5)].
FS Date: 7/31/2019 2:00:00 PM

Photo 2 of 3 : UCIP_FA_2019_55566_47293.jpg

WS view: slide gate (buried) on steel structure

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **11.50** | Rating ** | M | Issue No. | **225 (cont)** |
| LM End | **11.50** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.279715 ° | 39.279715 ° |
| | | | | -122.016889 ° | -122.016889 ° |
| DWR ID | 17363 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17363
FS_ID:55566
EP_NO: 9516
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been abandoned. DWR DMP geophysical investigation results confirmed evidence of pipe still likely exists through levee. No OMRR&R will be performed until funding becomes available. This section of the levee will need to be monitored for any integrity issues associated with abandoned pipe. Coordinates have been updated from 39.279691, -122.016862 to 39.279715, -122.016889 based on the geophysical study. Need to review record to clarify ownership. (O. Magana - DWR UCIP)04/19/2017 Abandoned-needs to be done properly. (DWR Sutter Yard- Afreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- AFreitag)06/01/2016 Appears to be an abandoned crossing.04/02/2015 Same as last inspection. Only slide gate steel structure found.06/30/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 16.8 feet below the crown, not found in 2015. Slide gate at the waterside (WS) end, found in 2015. (24-inch pipe [HLM 11.5] authorized under Automatic Board Order (ABO) issued as Permit No. 9516, 1974 - Cone). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 11.5)].
FS Date: 7/31/2019 2:00:00 PM

Photo 3 of 3 : UCIP_FA_2019_55566_47292.jpg

LS view: overview (no pipes)

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **11.53** | Rating ** | A/W | Issue No. | **8** |
| LM End | **11.79** | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 USACE Erosion Survey | | | 39.279910 ° | 39.283853 ° |
| | | | | -122.018221 ° | -122.016113 ° |
| DWR ID | DWR_ST0003_01_f _ 2018_8 | | | | |

**Comment Code**

**Inspector Comment**

2017 Site ID: SAC 152.6 L
Status: Eroding
2017 Field Notes: Access Issues - Could not observe
Site History: 2008 - Large rotational/mass failure in the bank with tree slump. 2009 - Minimal new erosion, the tree is leaning further into the river. 2011 - Site extended downstream. 2012 - Minor new erosion and tree roots are further exposed.

Photo 1 of 1 : FA_2019_ST0003_264_8_20190822_00005.jpg

USACE 2013 Photo #1

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **11.67** | Rating ** | M | Issue No. | **6** |
| LM End | **11.90** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.282064 ° | 39.285084 ° |
| | | | | -122.016517 ° | -122.014815 ° |
| DWR ID | DWR_ST0003_01_s _ 2012_6 | | | | |

**Comment Code**

DT : Ditch

**Inspector Comment**

Photo 1 of 1 : FA_2019_ST0003_264_6_20190822_00003.jpg

View of the ditch along the landside toe.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **11.81** | Rating ** | M | Issue No. | **226** |
| LM End | **11.81** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.284063 ° | 39.284063 ° |
| | | | | -122.015534 ° | -122.015534 ° |
| DWR ID | 17491 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17491
FS_ID:55567
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 07/31/2019 Record has been updated to Non-Urgent, pipe has been abandoned. DWR DMP geophysical investigation results confirmed evidence of pipe still likely exists through levee. No OMRR&R will be performed until funding becomes available. This section of the levee will need to be monitored for any integrity issues associated with the abandoned pipe. Coordinates have been updated from 39.283898, -122.015642 to 39.284063, -122.015534 based on the geophysical study. This pipe is not related to permit number 17860 (dsid 17507). (O. Magana - DWR UCIP)04/19/2017 Unable to locate. (DWR Sutter Yard- Afreitag)10/31/2016 Unable to locate.(DWR Sutter Yard- AFreitag)06/01/2016 Unable to locate.06/30/2014 Same as last inspection.04/02/2014 Unable to locate.12/18/2013 Unable to locate.07/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 18-inch pipe of an unknown material through the levee, invert 16 feet below the crown. Slide gate on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 11.81)].
FS Date: 7/31/2019 2:01:00 PM

Photo 1 of 3 : UCIP_FA_2019_55567_81959.jpg

Overview of levee crown looking u/s towards pipe crossing.

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **11.81** | Rating ** | M | Issue No. | **226 (cont)** |
| LM End | **11.81** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_55567_81960.jpg

WS view: overview of WS.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **11.81** | Rating ** | M | Issue No. | **226 (cont)** |
| LM End | **11.81** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.284063 ° | 39.284063 ° |
| | | | | -122.015534 ° | -122.015534 ° |
| DWR ID | 17491 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17491
FS_ID:55567
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 07/31/2019 Record has been updated to Non-Urgent, pipe has been abandoned. DWR DMP geophysical investigation results confirmed evidence of pipe still likely exists through levee. No OMRR&R will be performed until funding becomes available. This section of the levee will need to be monitored for any integrity issues associated with the abandoned pipe. Coordinates have been updated from 39.283898, -122.015642 to 39.284063, -122.015534 based on the geophysical study. This pipe is not related to permit number 17860 (dsid 17507). (O. Magana - DWR UCIP)04/19/2017 Unable to locate. (DWR Sutter Yard- Afreitag)10/31/2016 Unable to locate.(DWR Sutter Yard- AFreitag)06/01/2016 Unable to locate.06/30/2014 Same as last inspection.04/02/2014 Unable to locate.12/18/2013 Unable to locate.07/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 18-inch pipe of an unknown material through the levee, invert 16 feet below the crown. Slide gate on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 11.81)].
FS Date: 7/31/2019 2:01:00 PM

Photo 3 of 3 : UCIP_FA_2019_55567_81961.jpg

LS view: overview of LS.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **11.84** | Rating ** | M | Issue No. | **227** |
| LM End | **11.84** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.284342 ° | 39.284342 ° |
| | | | | -122.015339 ° | -122.015339 ° |
| DWR ID | 17364 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17364
FS_ID:55568
EP_NO: 9495
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been found authorizing the modifications for this structure. Recommend having record audited to make sure the ABO issued as permit number 9495 includes the modifications at this location. At the pipe daylight near the concrete box located on the WS berm, the soil has been disturbed with potential pipe leak. (O. Magana - DWR UCIP)04/19/2017 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)10/31/2016 Crossing appears to be in good condition.(DWR Sutter Yard- AFreitag)06/01/2016 Crossing appears to be in good condition.04/02/2015 20 inch steel pipe sleeved through 40-inch steel pipe (visible on LS). Same as last inspection.07/02/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 40-inch steel irrigation pipe, with a 20-inch steel pipe sleeved through it, through the levee, 15.7 feet below the crown (not 36-inch, as stated in the O&M Manual, Automatic Board Order, or Levee Log). Slant pump on the waterside (WS) bank. Vent on the apex of the pipe on the WS bank. Electrical switch board house and service pole on the WS. Slide gate in a concrete surge box on the WS bank. Pipe discharges into a concrete distribution box on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9495, 1974 - Wells). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 11.84)].
FS Date: 7/31/2019 2:02:00 PM

Photo 1 of 3 : UCIP_FA_2019_55568_47296.jpg

WS view: overview of switch panel shed and pump

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **11.84** | Rating ** | M | Issue No. | **227 (cont)** |
| LM End | **11.84** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.284342 ° | 39.284342 ° |
| | | | | -122.015339 ° | -122.015339 ° |
| DWR ID | 17364 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17364
FS_ID:55568
EP_NO: 9495
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been found authorizing the modifications for this structure. Recommend having record audited to make sure the ABO issued as permit number 9495 includes the modifications at this location. At the pipe daylight near the concrete box located on the WS berm, the soil has been disturbed with potential pipe leak. (O. Magana - DWR UCIP)04/19/2017 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)10/31/2016 Crossing appears to be in good condition.(DWR Sutter Yard- AFreitag)06/01/2016 Crossing appears to be in good condition.04/02/2015 20 inch steel pipe sleeved through 40-inch steel pipe (visible on LS). Same as last inspection.07/02/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 40-inch steel irrigation pipe, with a 20-inch steel pipe sleeved through it, through the levee, 15.7 feet below the crown (not 36-inch, as stated in the O&M Manual, Automatic Board Order, or Levee Log). Slant pump on the waterside (WS) bank. Vent on the apex of the pipe on the WS bank. Electrical switch board house and service pole on the WS. Slide gate in a concrete surge box on the WS bank. Pipe discharges into a concrete distribution box on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9495, 1974 - Wells). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 11.84)].
FS Date: 7/31/2019 2:02:00 PM

Photo 2 of 3 : UCIP_FA_2019_55568_47295.jpg

Crown view: overview (both sides of the levee)

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **11.84** | Rating ** | M | Issue No. | **227 (cont)** |
| LM End | **11.84** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.284342 ° | 39.284342 ° |
| | | | | -122.015339 ° | -122.015339 ° |
| DWR ID | 17364 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17364
FS_ID:55568
EP_NO: 9495
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/31/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been found authorizing the modifications for this structure. Recommend having record audited to make sure the ABO issued as permit number 9495 includes the modifications at this location. At the pipe daylight near the concrete box located on the WS berm, the soil has been disturbed with potential pipe leak. (O. Magana - DWR UCIP)04/19/2017 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)10/31/2016 Crossing appears to be in good condition.(DWR Sutter Yard-AFreitag)06/01/2016 Crossing appears to be in good condition.04/02/2015 20 inch steel pipe sleeved through 40-inch steel pipe (visible on LS). Same as last inspection.07/02/2014 Same as last inspection.12/18/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 40-inch steel irrigation pipe, with a 20-inch steel pipe sleeved through it, through the levee, 15.7 feet below the crown (not 36-inch, as stated in the O&M Manual, Automatic Board Order, or Levee Log). Slant pump on the waterside (WS) bank. Vent on the apex of the pipe on the WS bank. Electrical switch board house and service pole on the WS. Slide gate in a concrete surge box on the WS bank. Pipe discharges into a concrete distribution box on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9495, 1974 - Wells). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 11.84)].
FS Date: 7/31/2019 2:02:00 PM

Photo 3 of 3 : UCIP_FA_2019_55568_47300.jpg

Crown view: switch panel in CM sheet shed

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **11.85** | Rating ** | A/W | Issue No. | **13** |
| LM End | **11.90** | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 USACE Erosion Survey | | | 39.284568 ° | 39.285298 ° |
| | | | | -122.015690 ° | -122.015208 ° |
| DWR ID | DWR_ST0003_01_f _ 2018_13 | | | | |

Comment Code

Inspector Comment

2017 Site ID: SAC 152.8 L
Status: Eroding
2017 Field Notes: Minor new erosion observed.
Site History: 2006 - Large rotational/mass failure in the bank with tree slump. Tough clayey toe material. 2007 - Site is between stone revetments with a pump station at the downstream end. 2010 - Erosion is into the levee toe. 2011 - Minor new erosion. 2012 - Minor new erosion.

Photo 1 of 1 : FA_2019_ST0003_264_13_20190822_00008.jpg

USACE 2013 Photo #1

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **11.94** | Rating ** | M | Issue No. | **7** |
| LM End | **12.18** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.285658 ° | 39.288978 ° |
| | | | | -122.014574 ° | -122.013892 ° |
| DWR ID | DWR_ST0003_01_s _ 2012_7 | | | | |

Comment Code

DT : Ditch

Inspector Comment

Photo 1 of 1 : FA_2019_ST0003_264_7_20190822_00004.jpg

View of the ditch along the landside toe.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **12.06** | Rating ** | M | Issue No. | **228** |
| LM End | **12.06** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.287251 ° | 39.287251 ° |
| | | | | -122.014076 ° | -122.014076 ° |
| DWR ID | 17365 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17365
FS_ID:55569
EP_NO: 9514
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Record remains Non-Urgent due to safety issue and ABO issued for this structure. Need to audit this record to confirm ABO issued as permit number 9514 is still valid for current structure. The levee also serves as county road, River Road. Recommend an internal inspection of this crossing as a safety precaution based on the age of this structure and dual purpose use of the levee/county road (River Road). (O. Magana - DWR UCIP)04/19/2017 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)10/31/2016 Crossing appears to be in good condition.(DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition. New wooden cover was made for WS surge tank.04/02/2015 Everything looked to be in good condition. Concrete surge tank still has some silting. Gate valve in CMP riser not visible. Flap gate in concrete distribution box on LS not visible/accessible. Looks like cleaning required inside concrete surge tank on WS due to silting.07/02/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Pump running and WS surge tank was full of water so not sure if silt was cleaned out. LS flap gate was visible and is in good condition.
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 18.1 feet below the crown. Pump house on the waterside (WS) slope. Gate valve in a corrugated metal riser on the WS toe. Flap gate in a concrete distribution box at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9514, 1974 - Boggs). [Additional Reference(s): Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.05)].
FS Date: 8/1/2019 8:25:00 AM

Photo 1 of 3 : UCIP_FA_2019_55569_47306.jpg

WS view: overview pipe, pump, surge box & CMP riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **12.06** | Rating ** | M | Issue No. | **228 (cont)** |
| LM End | **12.06** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.287251 ° | 39.287251 ° |
| | | | | -122.014076 ° | -122.014076 ° |
| DWR ID | 17365 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17365
FS_ID:55569
EP_NO: 9514
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Record remains Non-Urgent due to safety issue and ABO issued for this structure. Need to audit this record to confirm ABO issued as permit number 9514 is still valid for current structure. The levee also serves as county road, River Road. Recommend an internal inspection of this crossing as a safety precaution based on the age of this structure and dual purpose use of the levee/county road (River Road). (O. Magana - DWR UCIP)04/19/2017 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)10/31/2016 Crossing appears to be in good condition.(DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition. New wooden cover was made for WS surge tank.04/02/2015 Everything looked to be in good condition. Concrete surge tank still has some silting. Gate valve in CMP riser not visible. Flap gate in concrete distribution box on LS not visible/accessible. Looks like cleaning required inside concrete surge tank on WS due to silting.07/02/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Pump running and WS surge tank was full of water so not sure if silt was cleaned out. LS flap gate was visible and is in good condition.
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 18.1 feet below the crown. Pump house on the waterside (WS) slope. Gate valve in a corrugated metal riser on the WS toe. Flap gate in a concrete distribution box at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9514, 1974 - Boggs). [Additional Reference(s): Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.05)].
FS Date: 8/1/2019 8:25:00 AM

Photo 2 of 3 : UCIP_FA_2019_55569_47305.jpg

WS view: steel pipe, pump, surge box & CMP riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **12.06** | Rating ** | M | Issue No. | **228 (cont)** |
| LM End | **12.06** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.287251 ° | 39.287251 ° |
| | | | | -122.014076 ° | -122.014076 ° |
| DWR ID | 17365 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17365
FS_ID:55569
EP_NO: 9514
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Record remains Non-Urgent due to safety issue and ABO issued for this structure. Need to audit this record to confirm ABO issued as permit number 9514 is still valid for current structure. The levee also serves as county road, River Road. Recommend an internal inspection of this crossing as a safety precaution based on the age of this structure and dual purpose use of the levee/county road (River Road). (O. Magana - DWR UCIP)04/19/2017 Crossing appears to be in good condition. (DWR Sutter Yard- Afreitag)10/31/2016 Crossing appears to be in good condition.(DWR Sutter Yard- AFreitag)06/06/2016 Crossing appears to be in good condition. New wooden cover was made for WS surge tank.04/02/2015 Everything looked to be in good condition. Concrete surge tank still has some silting. Gate valve in CMP riser not visible. Flap gate in concrete distribution box on LS not visible/accessible. Looks like cleaning required inside concrete surge tank on WS due to silting.07/02/2014 Same as last inspection.12/30/2013 Same as last inspection.07/29/2013 Pump running and WS surge tank was full of water so not sure if silt was cleaned out. LS flap gate was visible and is in good condition.
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 18.1 feet below the crown. Pump house on the waterside (WS) slope. Gate valve in a corrugated metal riser on the WS toe. Flap gate in a concrete distribution box at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9514, 1974 - Boggs). [Additional Reference(s): Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.05)].
FS Date: 8/1/2019 8:25:00 AM

Photo 3 of 3 : UCIP_FA_2019_55569_47304.jpg

WS view: pump switch box, surge box & CMP riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **12.19** | Rating ** | M | Issue No. | **155** |
| LM End | **12.51** | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.289146 ° | 39.293801 ° |
| | | | | -122.013908 ° | -122.013580 ° |
| DWR ID | DWR_ST0003_01_f _ 2019_155 | | | | |

**Comment Code**

V1 : Control annual grass and weeds on the levee slopes and easements.

**Inspector Comment**

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **12.43** | Rating ** | M | Issue No. | **229** |
| LM End | **12.43** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.292608 ° | 39.292608 ° |
| | | | | -122.013483 ° | -122.013483 ° |
| DWR ID | 17366 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17366
FS_ID:55570
EP_NO: 9513
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Record remains Non-Urgent, need to audit record to confirm owner. Pipe was running during site inspection. Recommend auditing this record to confirm ABO issued as permit number 9513 is still valid for current structure. The levee also serves as a county road, River Road. Recommend an internal inspection of this crossing as a safety precaution based on the age of this structure and dual purpose use of the levee/county road (River Road). Previously rigid 2.5 inch pipe has been replaced with a flexible hose that can be easily removed to allow the slide gate to fully close during flood season, as noted in the 2017 inspection. (O. Magana - DWR UCIP)04/20/2017 2.5in. GI pipe was removed and replaced with a section of 2.5in. flexible hose that can easily be removed to allow the slide gate to fully close for high water season. (DWR Sutter Yard- Afreitag)10/31/2016 2.5in. pipe still blocking the screw gate. (DWR Sutter Yard- AFreitag)06/06/2016 2.5inch pipe still present through crossing. (DWR Sutter Yard - afreitag)04/14/2016 2.5-inch pipe still preventing slide gate from fully closing on WS. Recommend LMA contact owner to address removal of unauthorized 2.5-inch pipe. Owner must either contact CVFPB for permitting of 2.5-inch pipe or remove it. (DWR UCIP - kfazel)04/02/2015 2.5in pipe is still present and prevents the slide gate from fully closing. (DWR Sutter Yard - afreitag)07/02/2014 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/11/2012 A 2.5 inch GI pipe through 36 inch CMP found. A 2 inch electrical conduit also found. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, invert 16.5 feet below the crown. Slide gate in a concrete surge box on the waterside (WS) berm. 2.5-inch pipe through the 24-inch pipe preventing closing of the slide gate on the WS. Slant pump on the riverbank. Concrete distribution box at the landside (LS) toe. 2-inch electrical conduit through the levee, visible on the WS adjacent to the walkway. (Automatic Board Order (ABO) issued as Permit No. 9513, 1974 - Boggs). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.42)].
FS Date: 8/1/2019 8:27:00 AM

Photo 1 of 3 : UCIP_FA_2019_55570_47313.jpg

WS view: overview of slanted pump and shed

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **12.43** | Rating ** | M | Issue No. | **229 (cont)** |
| LM End | **12.43** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.292608 ° | 39.292608 ° |
| | | | | -122.013483 ° | -122.013483 ° |
| DWR ID | 17366 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17366
FS_ID:55570
EP_NO: 9513
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Record remains Non-Urgent, need to audit record to confirm owner. Pipe was running during site inspection. Recommend auditing this record to confirm ABO issued as permit number 9513 is still valid for current structure. The levee also serves as a county road, River Road. Recommend an internal inspection of this crossing as a safety precaution based on the age of this structure and dual purpose use of the levee/county road (River Road). Previously rigid 2.5 inch pipe has been replaced with a flexible hose that can be easily removed to allow the slide gate to fully close during flood season, as noted in the 2017 inspection. (O. Magana - DWR UCIP)04/20/2017 2.5in. GI pipe was removed and replaced with a section of 2.5in. flexible hose that can easily be removed to allow the slide gate to fully close for high water season. (DWR Sutter Yard- Afreitag)10/31/2016 2.5in. pipe still blocking the screw gate. (DWR Sutter Yard- AFreitag)06/06/2016 2.5inch pipe still present through crossing. (DWR Sutter Yard - afreitag)04/14/2016 2.5-inch pipe still preventing slide gate from fully closing on WS. Recommend LMA contact owner to address removal of unauthorized 2.5-inch pipe. Owner must either contact CVFPB for permitting of 2.5-inch pipe or remove it. (DWR UCIP - kfazel)04/02/2015 2.5in pipe is still present and prevents the slide gate from fully closing. (DWR Sutter Yard - afreitag)07/02/2014 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/11/2012 A 2.5 inch GI pipe through 36 inch CMP found. A 2 inch electrical conduit also found. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, invert 16.5 feet below the crown. Slide gate in a concrete surge box on the waterside (WS) berm. 2.5-inch pipe through the 24-inch pipe preventing closing of the slide gate on the WS. Slant pump on the riverbank. Concrete distribution box at the landside (LS) toe. 2-inch electrical conduit through the levee, visible on the WS adjacent to the walkway. (Automatic Board Order (ABO) issued as Permit No. 9513, 1974 - Boggs). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.42)].
FS Date: 8/1/2019 8:27:00 AM

Photo 2 of 3 : UCIP_FA_2019_55570_47312.jpg

WS view: pump station and walkway

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **12.43** | Rating ** | M | Issue No. | **229 (cont)** |
| LM End | **12.43** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.292608 ° | 39.292608 ° |
| | | | | -122.013483 ° | -122.013483 ° |
| DWR ID | 17366 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17366
FS_ID:55570
EP_NO: 9513
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Record remains Non-Urgent, need to audit record to confirm owner. Pipe was running during site inspection. Recommend auditing this record to confirm ABO issued as permit number 9513 is still valid for current structure. The levee also serves as a county road, River Road. Recommend an internal inspection of this crossing as a safety precaution based on the age of this structure and dual purpose use of the levee/county road (River Road). Previously rigid 2.5 inch pipe has been replaced with a flexible hose that can be easily removed to allow the slide gate to fully close during flood season, as noted in the 2017 inspection. (O. Magana - DWR UCIP)04/20/2017 2.5in. GI pipe was removed and replaced with a section of 2.5in. flexible hose that can easily be removed to allow the slide gate to fully close for high water season. (DWR Sutter Yard- Afreitag)10/31/2016 2.5in. pipe still blocking the screw gate. (DWR Sutter Yard- AFreitag)06/06/2016 2.5inch pipe still present through crossing. (DWR Sutter Yard - afreitag)04/14/2016 2.5-inch pipe still preventing slide gate from fully closing on WS. Recommend LMA contact owner to address removal of unauthorized 2.5-inch pipe. Owner must either contact CVFPB for permitting of 2.5-inch pipe or remove it. (DWR UCIP - kfazel)04/02/2015 2.5in pipe is still present and prevents the slide gate from fully closing. (DWR Sutter Yard - afreitag)07/02/2014 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/29/2013 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. (DWR Sutter Yard - afreitag)12/11/2012 A 2.5 inch GI pipe through 36 inch CMP found. A 2 inch electrical conduit also found. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, invert 16.5 feet below the crown. Slide gate in a concrete surge box on the waterside (WS) berm. 2.5-inch pipe through the 24-inch pipe preventing closing of the slide gate on the WS. Slant pump on the riverbank. Concrete distribution box at the landside (LS) toe. 2-inch electrical conduit through the levee, visible on the WS adjacent to the walkway. (Automatic Board Order (ABO) issued as Permit No. 9513, 1974 - Boggs). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.42)].
FS Date: 8/1/2019 8:27:00 AM

Photo 3 of 3 : UCIP_FA_2019_55570_47311.jpg

WS view: steel pipe, GI pipe in concrete surge box

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **12.50** | Rating ** | U | Issue No. | **230** |
| LM End | **12.50** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.293593 ° | 39.293593 ° |
| | | | | -122.013526 ° | -122.013526 ° |
| DWR ID | 17493 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17493
FS_ID:55571
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Record has been updated to Urgent due to internal inspection findings. DMP internal inspection completed in 2018 indicates surface damage corrosion, surface spalling of damage coating, and deformed flexible elliptical; refer to internal inspection report for details. Pipe appears to be abandoned. The pipe is located where levee and River County road diverge. No permit has been found authorizing this crossing. (O. Magana - DWR UCIP)04/20/2017 Unable to locate. (DWR Sutter Yard- AFreitag)10/31/2016 Unable to locate. (DWR Sutter Yard- AFreitag)06/06/2016 Unable to locate.04/02/2015 Unable to locate.07/02/2014 Unable to locate.12/19/2013 Unable to locate.07/23/2013 Same as last inspection. Unable to locate..
FIELD_STRUCT_DESC: 48-inch irrigation pipe of an unknown material through the levee, invert 18 feet below the crown. Abandoned pump on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 12.49)].
FS Date: 8/1/2019 8:29:00 AM

Photo 1 of 3 : UCIP_FA_2019_55571_81990.jpg

LS view: overview of LS. Concrete headwall visible on LS toe.

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **12.50** | Rating ** | U | Issue No. | **230 (cont)** |
| LM End | **12.50** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_55571_81991.jpg

LS view: inside view of 48-inch pipe.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **12.50** | Rating ** | U | Issue No. | **230 (cont)** |
| LM End | **12.50** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.293593 ° | 39.293593 ° |
| | | | | -122.013526 ° | -122.013526 ° |
| DWR ID | 17493 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17493
FS_ID:55571
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Record has been updated to Urgent due to internal inspection findings. DMP internal inspection completed in 2018 indicates surface damage corrosion, surface spalling of damage coating, and deformed flexible elliptical; refer to internal inspection report for details. Pipe appears to be abandoned. The pipe is located where levee and River County road diverge. No permit has been found authorizing this crossing. (O. Magana - DWR UCIP)04/20/2017 Unable to locate. (DWR Sutter Yard- AFreitag)10/31/2016 Unable to locate. (DWR Sutter Yard- AFreitag)06/06/2016 Unable to locate.04/02/2015 Unable to locate.07/02/2014 Unable to locate.12/19/2013 Unable to locate.07/23/2013 Same as last inspection. Unable to locate..
FIELD_STRUCT_DESC: 48-inch irrigation pipe of an unknown material through the levee, invert 18 feet below the crown. Abandoned pump on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 12.49)].
FS Date: 8/1/2019 8:29:00 AM

Photo 3 of 3 : UCIP_FA_2019_55571_81992.jpg

LS view: overview of LS slope.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **12.56** | Rating ** | U | Issue No. | **231** |
| LM End | **12.56** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.294449 ° | 39.294449 ° |
| | | | | -122.013871 ° | -122.013871 ° |
| DWR ID | 17367 | | | | |

Comment Code

Inspector Comment

DS_ID:17367
FS_ID:55572
EP_NO: 2971
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 New permit issued with name change from H. Sartain to Colusa Properties, Inc.; owner is working with CVFPB to address the pipe failure found on the WS berm. Pipe was running during inspection. No change was observed from the site visit on 07-16-19 (with CVFPB, pipe Owner and Consultant, LMA representative, and UCIP staff) to 08-01-19 inspection. (O. Magana - DWR UCIP)08/30/2018 Same as last inspection; large sink hole/erosion around surge box on WS so crossing remains Urgent (D. Sanoski - DWR UCIP).04/20/2017 Sink hole behind the WS surge box got a lot bigger after the high water event of Jan/Feb 2017. Pipe also had a leak during that time buy not sure if it was due to the sink hole or a faulty slide gate. (DWR Sutter Yard- AFreitag)10/31/2016 No repairs have been made here yet. Sinkhole is still present at the WS surge box.(DWR Sutter Yard- AFreitag)06/06/2016 Pumps were connected to intake pipes and pumping into the WS surge box. The deep sink hole above the surge box measures to be about 6'6" deep from the toe road surface and it appeared to be wet in the bottom indicating the cracks in the concrete may be letting water seep through and wash out the sediment behind the wall. The surge box was full of water so could not observe the sediment build up in the bottom of the box. (DWR Sutter Yard - afreitag)04/14/2016 Deep sink hole above surge box on WS, possibly caused by burrowing, possibly creating conduit for seepage into surge box, which may explain presence of water in box. Recommend pipe be video inspected. Recommend taking another photo in summer to observe possible sediment buildup in box. (DWR UCIP - kfazel)04/02/2015 Pipe has small leak during times of high water. Not sure of the cause. Pumps taken out from the pipe (may be for repairs). Only control board found. LS wing wall minor damage. (DWR Sutter Yard - afreitag)07/02/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/19/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/23/2013 Pump motors attached to pipes and running. Think pumps were disconnected during last inspection to keep motors above water for high water season. (DWR Sutter Yard - afreitag)12/11/2012 Pumps taken out from the pipe (may be for repairs). Only control board found. LS wing wall minor damage. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 20 feet below the crown. Concrete headwall on the landside (LS) with meter. Slide gate on the waterside (WS) end. Two slant pumps on the WS bank discharging into a concrete distribution box at the WS toe. Switch panel on the WS. (name change and serves as a supplement permit for 36-inch pipe authorized under Permit No.

Photo 1 of 3 : UCIP_FA_2019_55572_47323.jpg

WS view: overview

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

2971-1, 2019 - Colusa Properties, Inc..; 36-inch authorized under Permit No. 2971, 1959 - H. Sartain). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.55)].
FS Date: 8/1/2019 1:48:00 PM

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **12.56** | Rating ** | U | Issue No. | **231 (cont)** |
| LM End | **12.56** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_55572_47322.jpg

WS view: concrete surge box

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **12.56** | Rating ** | U | Issue No. | **231 (cont)** |
| LM End | **12.56** | Issue Type + | En | Location * | |

Photo 3 of 3 : UCIP_FA_2019_55572_47321.jpg

WS view: slide gate in concrete surge box

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **12.74** | Rating ** | M | Issue No. | **232** |
| LM End | **12.74** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.296965 ° | 39.296965 ° |
| | | | | -122.014266 ° | -122.014266 ° |
| DWR ID | 17368 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17368
FS_ID:55574
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/01/2019 Pipe remains Non-Urgent; internal inspection found some issues (see internal inspection report and notes recorded on 06-14-16), pipe appears to be abandoned and no permit has been found for this pipe. Need to clarify who owns this crossing. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- AFreitag)06/14/2016 Pipe was internally cleaned and camera inspected on 11/5/2015 by Nor-Cal Pipeline Services. Pipe length is 86.7ft long. The is a possible sag in the pipe between the WS riser and LS end as we could not get all the water to drain or be sucked out after the cleaning was done. Internal inspection showed signs of some rusting but no visible holes or other deterioration were found. After the inspection pipe ends were capped and reburied. 04/14/2016 Same as last inspection. Heavy vegetation along WS slope, especially below WS berm, limits visibility.04/02/2015 WS and LS pipe ends have been dug up in preparation for internal camera inspections. 07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/23/2013 Same as last inspection.12/11/2012 Only CMP riser found. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 12-inch drainage pipe of an unknown material through the levee, 14 feet below the crown, not found in 2016. Slide gate in a corrugated metal pipe 36-inch riser (CMP) on the waterside (WS) slope, found in 2016. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.73)].
FS Date: 8/1/2019 1:49:00 PM

Photo 1 of 3 : UCIP_FA_2019_55574_75075.jpg

View of landside from crown.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **12.74** | Rating ** | M | Issue No. | **232 (cont)** |
| LM End | **12.74** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.296965 ° | 39.296965 ° |
| | | | | -122.014266 ° | -122.014266 ° |
| DWR ID | 17368 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17368
FS_ID:55574
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/01/2019 Pipe remains Non-Urgent; internal inspection found some issues (see internal inspection report and notes recorded on 06-14-16), pipe appears to be abandoned and no permit has been found for this pipe. Need to clarify who owns this crossing. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- AFreitag)06/14/2016 Pipe was internally cleaned and camera inspected on 11/5/2015 by Nor-Cal Pipeline Services. Pipe length is 86.7ft long. The is a possible sag in the pipe between the WS riser and LS end as we could not get all the water to drain or be sucked out after the cleaning was done. Internal inspection showed signs of some rusting but no visible holes or other deterioration were found. After the inspection pipe ends were capped and reburied. 04/14/2016 Same as last inspection. Heavy vegetation along WS slope, especially below WS berm, limits visibility.04/02/2015 WS and LS pipe ends have been dug up in preparation for internal camera inspections. 07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/23/2013 Same as last inspection.12/11/2012 Only CMP riser found. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 12-inch drainage pipe of an unknown material through the levee, 14 feet below the crown, not found in 2016. Slide gate in a corrugated metal pipe 36-inch riser (CMP) on the waterside (WS) slope, found in 2016. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.73)].
FS Date: 8/1/2019 1:49:00 PM

Photo 2 of 3 : UCIP_FA_2019_55574_75076.jpg

WS view: 12-inch slide gate inside CMP riser on WS slope.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **12.74** | Rating ** | M | Issue No. | **232 (cont)** |
| LM End | **12.74** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.296965 ° | 39.296965 ° |
| | | | | -122.014266 ° | -122.014266 ° |
| DWR ID | 17368 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17368
FS_ID:55574
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/01/2019 Pipe remains Non-Urgent; internal inspection found some issues (see internal inspection report and notes recorded on 06-14-16), pipe appears to be abandoned and no permit has been found for this pipe. Need to clarify who owns this crossing. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. (DWR Sutter Yard- AFreitag)06/14/2016 Pipe was internally cleaned and camera inspected on 11/5/2015 by Nor-Cal Pipeline Services. Pipe length is 86.7ft long. The is a possible sag in the pipe between the WS riser and LS end as we could not get all the water to drain or be sucked out after the cleaning was done. Internal inspection showed signs of some rusting but no visible holes or other deterioration were found. After the inspection pipe ends were capped and reburied. 04/14/2016 Same as last inspection. Heavy vegetation along WS slope, especially below WS berm, limits visibility.04/02/2015 WS and LS pipe ends have been dug up in preparation for internal camera inspections. 07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/23/2013 Same as last inspection.12/11/2012 Only CMP riser found. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 12-inch drainage pipe of an unknown material through the levee, 14 feet below the crown, not found in 2016. Slide gate in a corrugated metal pipe 36-inch riser (CMP) on the waterside (WS) slope, found in 2016. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.73)].
FS Date: 8/1/2019 1:49:00 PM

Photo 3 of 3 : UCIP_FA_2019_55574_75077.jpg

WS: slide gate inside CMP riser.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **12.79** | Rating ** | M | Issue No. | **156** |
| LM End | **12.79** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.297658 ° | 39.297658 ° |
| | | | | -122.014284 ° | -122.014284 ° |
| DWR ID | DWR_ST0003_01_f _ 2019_156 | | | | |

**Comment Code**

TR : Tree or limb

**Inspector Comment**

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **12.85** | Rating ** | M | Issue No. | **76** |
| LM End | **12.85** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.298582 ° | 39.298582 ° |
| | | | | -122.014105 ° | -122.014105 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_76 | | | | |

**Comment Code**

MA : Material

**Inspector Comment**

Photo 1 of 1 : FA_2019_ST0003_264_76_20190822_00015.jpg

View of the ag equipment along the landside toe.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **12.96** | Rating ** | M | Issue No. | **233** |
| LM End | **12.96** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.300140 ° | 39.300140 ° |
| | | | | -122.013599 ° | -122.013599 ° |
| DWR ID | 17369 | | | | |

Comment Code

Inspector Comment

DS_ID:17369
FS_ID:56035
EP_NO: 9510
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Record has been downgraded from Urgent to Non-Urgent due to the proximity of the erosion present on the WS. Erosion at the surge box is still present (located away from WS toe). Recommend auditing this record to determine if ABO issued as permit number 9510 authorizes all appurtenances associated with this structure. Need to owner to address the erosion on WS toe. (O. Magana - DWR UCIP)08/30/2018 Same as last inspection; erosion at surge box so crossing remains Urgent (D. Sanoski - DWR UCIP).04/20/2017 Erosion hole at WS surge box has gotten worse after the Jan/Feb 2017 high water event. Pipe also leaked which is believed to be caused by the screw gate not fully closing. (DWR Sutter Yard- AFreitag)10/31/2016 No repairs have been made here yet. Bad erosion still present at the WS toe distribution box.(DWR Sutter Yard- AFreitag)06/03/2016 Bad erosion still present all around the WS surge box. Pipes were flowing water at the time of inspection and the bottom of the erosion hole was wet and had standing water in it indicating a leak coming from the surge box. (DWR Sutter Yard - afreitag)04/14/2016 Heavy scour still present around surge box on WS exposing pipe. Levee caved in and severely damaged around surge box. Erosion around CMP riser on WS cited previously not found. (DWR UCIP - kfazel)04/02/2015 Pipe leaks during high water. It is suspected that the screw gate does not fully close and may need to be cleaned to allow it to close fully. (DWR Sutter Yard - afreitag)07/02/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/19/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/23/2013 Water was flowing from the WS to LS ditch. Not sure where water flow was originating. All erosion problems are still present. (DWR Sutter Yard - afreitag)12/10/2016 Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 18 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete box on the WS. Pump mounted on the WS bank, not found in 2016. (Automatic Board Order (ABO) issued as Permit No. 9510, 1974 - Forry). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.95)].
FS Date: 8/1/2019 1:49:00 PM

Photo 1 of 3 : UCIP_FA_2019_56035_47336.jpg

WS view: CMP riser on levee slope.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **12.96** | Rating ** | M | Issue No. | **233 (cont)** |
| LM End | **12.96** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.300140 ° | 39.300140 ° |
| | | | | -122.013599 ° | -122.013599 ° |
| DWR ID | 17369 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17369
FS_ID:56035
EP_NO: 9510
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Record has been downgraded from Urgent to Non-Urgent due to the proximity of the erosion present on the WS. Erosion at the surge box is still present (located away from WS toe). Recommend auditing this record to determine if ABO issued as permit number 9510 authorizes all appurtenances associated with this structure. Need to owner to address the erosion on WS toe. (O. Magana - DWR UCIP)08/30/2018 Same as last inspection; erosion at surge box so crossing remains Urgent (D. Sanoski - DWR UCIP).04/20/2017 Erosion hole at WS surge box has gotten worse after the Jan/Feb 2017 high water event. Pipe also leaked which is believed to be caused by the screw gate not fully closing. (DWR Sutter Yard- AFreitag)10/31/2016 No repairs have been made here yet. Bad erosion still present at the WS toe distribution box.(DWR Sutter Yard- AFreitag)06/03/2016 Bad erosion still present all around the WS surge box. Pipes were flowing water at the time of inspection and the bottom of the erosion hole was wet and had standing water in it indicating a leak coming from the surge box. (DWR Sutter Yard - afreitag)04/14/2016 Heavy scour still present around surge box on WS exposing pipe. Levee caved in and severely damaged around surge box. Erosion around CMP riser on WS cited previously not found. (DWR UCIP - kfazel)04/02/2015 Pipe leaks during high water. It is suspected that the screw gate does not fully close and may need to be cleaned to allow it to close fully. (DWR Sutter Yard - afreitag)07/02/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/19/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/23/2013 Water was flowing from the WS to LS ditch. Not sure where water flow was originating. All erosion problems are still present. (DWR Sutter Yard - afreitag)12/10/2016 Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 18 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete box on the WS. Pump mounted on the WS bank, not found in 2016. (Automatic Board Order (ABO) issued as Permit No. 9510, 1974 - Forry). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.95)].
FS Date: 8/1/2019 1:49:00 PM

Photo 2 of 3 : UCIP_FA_2019_56035_47334.jpg

WS view: overview of concrete surge box

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **12.96** | Rating ** | M | Issue No. | **233 (cont)** |
| LM End | **12.96** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.300140 ° | 39.300140 ° |
| | | | | -122.013599 ° | -122.013599 ° |
| DWR ID | 17369 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17369
FS_ID:56035
EP_NO: 9510
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Record has been downgraded from Urgent to Non-Urgent due to the proximity of the erosion present on the WS. Erosion at the surge box is still present (located away from WS toe). Recommend auditing this record to determine if ABO issued as permit number 9510 authorizes all appurtenances associated with this structure. Need to owner to address the erosion on WS toe. (O. Magana - DWR UCIP)08/30/2018 Same as last inspection; erosion at surge box so crossing remains Urgent (D. Sanoski - DWR UCIP).04/20/2017 Erosion hole at WS surge box has gotten worse after the Jan/Feb 2017 high water event. Pipe also leaked which is believed to be caused by the screw gate not fully closing. (DWR Sutter Yard- AFreitag)10/31/2016 No repairs have been made here yet. Bad erosion still present at the WS toe distribution box.(DWR Sutter Yard- AFreitag)06/03/2016 Bad erosion still present all around the WS surge box. Pipes were flowing water at the time of inspection and the bottom of the erosion hole was wet and had standing water in it indicating a leak coming from the surge box. (DWR Sutter Yard - afreitag)04/14/2016 Heavy scour still present around surge box on WS exposing pipe. Levee caved in and severely damaged around surge box. Erosion around CMP riser on WS cited previously not found. (DWR UCIP - kfazel)04/02/2015 Pipe leaks during high water. It is suspected that the screw gate does not fully close and may need to be cleaned to allow it to close fully. (DWR Sutter Yard - afreitag)07/02/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/19/2013 Same as last inspection. (DWR Sutter Yard - afreitag)07/23/2013 Water was flowing from the WS to LS ditch. Not sure where water flow was originating. All erosion problems are still present. (DWR Sutter Yard - afreitag)12/10/2016 Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection. (DWR UCIP - pamatya)
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 18 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete box on the WS. Pump mounted on the WS bank, not found in 2016. (Automatic Board Order (ABO) issued as Permit No. 9510, 1974 - Forry). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 12.95)].
FS Date: 8/1/2019 1:49:00 PM

Photo 3 of 3 : UCIP_FA_2019_56035_47333.jpg

WS view: concrete surge box

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **13.38** | Rating ** | M | Issue No. | **234** |
| LM End | **13.38** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.306065 ° | 39.306065 ° |
| | | | | -122.013112 ° | -122.013112 ° |
| DWR ID | 17340 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17340
FS_ID:55576
EP_NO: 9511
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Crossing remains Non-Urgent; internal inspection shows issues associated with crossing (refer to internal inspection report), pipe has been abandoned, and ABO issued as permit number 9511. Recommend auditing this record to determine current owner and if crossing is no longer in use, the pipe will need to be removed or abandoned per Title 23. Board has been placed on WS outlet to prevent sediment buildup. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done properly. A oak tree has fallen down onto the WS pipe end. It does not appear to have damaged the pipe but it will need to be better inspected after the tree has been cleared away. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned. (DWR Sutter Yard- AFreitag)06/14/2016 Pipe was internally cleaned and camera inspected on 11/6/2015 by Nor-Cal Pipeline Services. The 48" cmp pipe section that runs through the levee was deemed to be in good condition. After the LS levee toe the pipe changes to a 48" concrete box culvert for under the roadway and that showed signs of some cracking. After the inspection the WS end was capped to keep sediment out until further abandonment can be achieved.04/16/2016 A wooden board has been placed on WS outlet of pipe to prevent sediment from entering pipe. This is a temporary repair measure by Sutter Yard until pipe can be grouted. Need to contact owner to ensure pipe's proper abandonment. Blockage of pipe outlet by wooden board or sediment will pose a hazard during high water. Pipe owner unclear, as landowner differs on LS and WS.04/02/2015 Pipe has been selected for internal camera inspection.Outlet pipe silted on WS. Inlet structure damaged on LS. Not properly abandoned.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 48-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Landside (LS) end of pipe on east side of River Road. Pipe is not in use but is operable. (48-inch pipe [HLM 13.37] authorized under Permit No. 9511, 1974 - Moresco). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.37)].
FS Date: 8/1/2019 1:50:00 PM

Photo 1 of 3 : UCIP_FA_2019_55576_47343.jpg

WS view: CMP riser with slide gate

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **13.38** | Rating ** | M | Issue No. | **234 (cont)** |
| LM End | **13.38** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.306065 ° | 39.306065 ° |
| | | | | -122.013112 ° | -122.013112 ° |
| DWR ID | 17340 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17340
FS_ID:55576
EP_NO: 9511
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Crossing remains Non-Urgent; internal inspection shows issues associated with crossing (refer to internal inspection report), pipe has been abandoned, and ABO issued as permit number 9511. Recommend auditing this record to determine current owner and if crossing is no longer in use, the pipe will need to be removed or abandoned per Title 23. Board has been placed on WS outlet to prevent sediment buildup. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done properly. A oak tree has fallen down onto the WS pipe end. It does not appear to have damaged the pipe but it will need to be better inspected after the tree has been cleared away. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned. (DWR Sutter Yard- AFreitag)06/14/2016 Pipe was internally cleaned and camera inspected on 11/6/2015 by Nor-Cal Pipeline Services. The 48" cmp pipe section that runs through the levee was deemed to be in good condition. After the LS levee toe the pipe changes to a 48" concrete box culvert for under the roadway and that showed signs of some cracking. After the inspection the WS end was capped to keep sediment out until further abandonment can be achieved.04/16/2016 A wooden board has been placed on WS outlet of pipe to prevent sediment from entering pipe. This is a temporary repair measure by Sutter Yard until pipe can be grouted. Need to contact owner to ensure pipe's proper abandonment. Blockage of pipe outlet by wooden board or sediment will pose a hazard during high water. Pipe owner unclear, as landowner differs on LS and WS.04/02/2015 Pipe has been selected for internal camera inspection.Outlet pipe silted on WS. Inlet structure damaged on LS. Not properly abandoned.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 48-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Landside (LS) end of pipe on east side of River Road. Pipe is not in use but is operable. (48-inch pipe [HLM 13.37] authorized under Permit No. 9511, 1974 - Moresco). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.37)].
FS Date: 8/1/2019 1:50:00 PM

Photo 2 of 3 : UCIP_FA_2019_55576_47342.jpg

WS view: overview of CMP riser and outlet pipe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **13.38** | Rating ** | M | Issue No. | **234 (cont)** |
| LM End | **13.38** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.306065 ° | 39.306065 ° |
| | | | | -122.013112 ° | -122.013112 ° |
| DWR ID | 17340 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17340
FS_ID:55576
EP_NO: 9511
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Crossing remains Non-Urgent; internal inspection shows issues associated with crossing (refer to internal inspection report), pipe has been abandoned, and ABO issued as permit number 9511. Recommend auditing this record to determine current owner and if crossing is no longer in use, the pipe will need to be removed or abandoned per Title 23. Board has been placed on WS outlet to prevent sediment buildup. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done properly. A oak tree has fallen down onto the WS pipe end. It does not appear to have damaged the pipe but it will need to be better inspected after the tree has been cleared away. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned. (DWR Sutter Yard- AFreitag)06/14/2016 Pipe was internally cleaned and camera inspected on 11/6/2015 by Nor-Cal Pipeline Services. The 48" cmp pipe section that runs through the levee was deemed to be in good condition. After the LS levee toe the pipe changes to a 48" concrete box culvert for under the roadway and that showed signs of some cracking. After the inspection the WS end was capped to keep sediment out until further abandonment can be achieved.04/16/2016 A wooden board has been placed on WS outlet of pipe to prevent sediment from entering pipe. This is a temporary repair measure by Sutter Yard until pipe can be grouted. Need to contact owner to ensure pipe's proper abandonment. Blockage of pipe outlet by wooden board or sediment will pose a hazard during high water. Pipe owner unclear, as landowner differs on LS and WS.04/02/2015 Pipe has been selected for internal camera inspection.Outlet pipe silted on WS. Inlet structure damaged on LS. Not properly abandoned.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 48-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Landside (LS) end of pipe on east side of River Road. Pipe is not in use but is operable. (48-inch pipe [HLM 13.37] authorized under Permit No. 9511, 1974 - Moresco). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.37)].
FS Date: 8/1/2019 1:50:00 PM

Photo 3 of 3 : UCIP_FA_2019_55576_47341.jpg

WS view: silted concrete lined CMP outlet pipe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **13.43** | Rating ** | C | Issue No. | **75** |
| LM End | **13.43** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 39.306919 ° | 39.306919 ° |
| | | | | -122.013076 ° | -122.013076 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_75 | | | | |

**Comment Code**

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

**Inspector Comment**

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **13.77** | Rating ** | C | Issue No. | **95** |
| LM End | **13.77** | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.311710 ° | 39.311710 ° |
| | | | | -122.012885 ° | -122.012885 ° |
| DWR ID | DWR_ST0003_01_f _ 2018_95 | | | | |

**Comment Code**

PR : Prunings

**Inspector Comment**

Remove the prunings from the waterside toe.

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **13.93** | Rating ** | M | Issue No. | **235** |
| LM End | **13.93** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.314025 ° | 39.314025 ° |
| | | | | -122.012959 ° | -122.012959 ° |
| DWR ID | 17361 | | | | |

Comment Code

Inspector Comment

DS_ID:17361
FS_ID:55577
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/01/2019 Crossing remains Non-Urgent; pipe is abandoned and no permit has been found authorizing this crossing. If crossing is no longer in use, the pipe will need to be removed or abandoned according to Title 23. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. WS pipe end buried. (DWR Sutter Yard- AFreitag)06/14/2016 WS pipe end was dug up for a internal camera inspection. The WS slide gate was sealed shut and would not open so the inspection was only done form the WS pipe end to the WS slide gate (33.1ft). The pipe showed some signs of heavy rusting but no visible holes or other signs of deterioration were found. After the inspection the WS pipe end was capped and reburied until further abandonment can be achieved.04/02/2015 Only CMP riser on WS. Pipe has been selected for internal camera inspection. Only CMP riser found on WS.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 16 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) end, found in 2015. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.92)].
FS Date: 8/1/2019 1:50:00 PM

Photo 1 of 3 : UCIP_FA_2019_55577_47349.jpg

WS view: CMP riser with slide gate

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **13.93** | Rating ** | M | Issue No. | **235 (cont)** |
| LM End | **13.93** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.314025 ° | 39.314025 ° |
| | | | | -122.012959 ° | -122.012959 ° |
| DWR ID | 17361 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17361
FS_ID:55577
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/01/2019 Crossing remains Non-Urgent; pipe is abandoned and no permit has been found authorizing this crossing. If crossing is no longer in use, the pipe will need to be removed or abandoned according to Title 23. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. WS pipe end buried. (DWR Sutter Yard- AFreitag)06/14/2016 WS pipe end was dug up for a internal camera inspection. The WS slide gate was sealed shut and would not open so the inspection was only done form the WS pipe end to the WS slide gate (33.1ft). The pipe showed some signs of heavy rusting but no visible holes or other signs of deterioration were found. After the inspection the WS pipe end was capped and reburied until further abandonment can be achieved.04/02/2015 Only CMP riser on WS. Pipe has been selected for internal camera inspection. Only CMP riser found on WS.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 16 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) end, found in 2015. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.92)].
FS Date: 8/1/2019 1:50:00 PM

Photo 2 of 3 : UCIP_FA_2019_55577_47348.jpg

WS view: inside CMP riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **13.93** | Rating ** | M | Issue No. | **235 (cont)** |
| LM End | **13.93** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.314025 ° | 39.314025 ° |
| | | | | -122.012959 ° | -122.012959 ° |
| DWR ID | 17361 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17361
FS_ID:55577
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/01/2019 Crossing remains Non-Urgent; pipe is abandoned and no permit has been found authorizing this crossing. If crossing is no longer in use, the pipe will need to be removed or abandoned according to Title 23. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. WS pipe end buried. (DWR Sutter Yard- AFreitag)06/14/2016 WS pipe end was dug up for a internal camera inspection. The WS slide gate was sealed shut and would not open so the inspection was only done form the WS pipe end to the WS slide gate (33.1ft). The pipe showed some signs of heavy rusting but no visible holes or other signs of deterioration were found. After the inspection the WS pipe end was capped and reburied until further abandonment can be achieved.04/02/2015 Only CMP riser on WS. Pipe has been selected for internal camera inspection. Only CMP riser found on WS.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 16 feet below the crown, not found in 2015. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) end, found in 2015. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.92)].
FS Date: 8/1/2019 1:50:00 PM

Photo 3 of 3 : UCIP_FA_2019_55577_47347.jpg

LS view: overview- across the county road

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

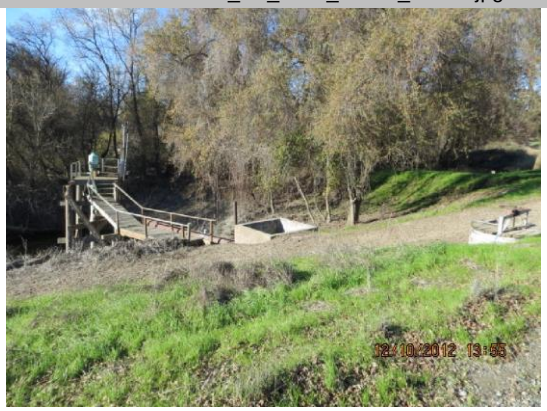
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **14.31** | Rating ** | M | Issue No. | **236** |
| LM End | **14.31** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.318640 ° | 39.318640 ° |
| | | | | -122.015872 ° | -122.015872 ° |
| DWR ID | 17359 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17359
FS_ID:55578
EP_NO: 1858
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Crossing has been upgraded from No Action Needed to Non-Urgent due to missing permit authorizing pipe crossing. Permit previously recorded as 1858 is incorrect, permit is for 12KV pole line extension. (O. Magana - DWR UCIP)04/20/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/31/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/03/2016 Crossing appears to be in good condition.04/02/2015 Same as last inspection. Pump on wooden pile structure. Concrete surge box on WS. Concrete distribution box on LS.07/02/2014 Same as last inspection.12/19/2013 Pump structure appears to have been rebuilt. Everything else is the same.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 42-inch corrugated metal irrigation pipe through the levee, 12.8 feet below the crown. Vertical pump on a pile structure on the waterside (WS) toe. Slide gate in a corrugated metal pipe (CMP) riser on the WS slope. Concrete surge box on the WS toe. Concrete distribution box on the landside (LS) toe. Service pole on the WS berm. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 14.3)].
FS Date: 8/1/2019 1:51:00 PM

Photo 1 of 3 : UCIP_FA_2019_55578_47352.jpg




WS view: pump, walkway, surge box, & CMP riser

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **14.31** | Rating ** | M | Issue No. | **236 (cont)** |
| LM End | **14.31** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_55578_47351.jpg

WS view: inside CMP riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **14.31** | Rating ** | M | Issue No. | **236 (cont)** |
| LM End | **14.31** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.318640 ° | 39.318640 ° |
| | | | | -122.015872 ° | -122.015872 ° |
| DWR ID | 17359 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17359
FS_ID:55578
EP_NO: 1858
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Crossing has been upgraded from No Action Needed to Non-Urgent due to missing permit authorizing pipe crossing. Permit previously recorded as 1858 is incorrect, permit is for 12KV pole line extension. (O. Magana - DWR UCIP)04/20/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/31/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/03/2016 Crossing appears to be in good condition.04/02/2015 Same as last inspection. Pump on wooden pile structure. Concrete surge box on WS. Concrete distribution box on LS.07/02/2014 Same as last inspection.12/19/2013 Pump structure appears to have been rebuilt. Everything else is the same.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 42-inch corrugated metal irrigation pipe through the levee, 12.8 feet below the crown. Vertical pump on a pile structure on the waterside (WS) toe. Slide gate in a corrugated metal pipe (CMP) riser on the WS slope. Concrete surge box on the WS toe. Concrete distribution box on the landside (LS) toe. Service pole on the WS berm. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 14.3)].
FS Date: 8/1/2019 1:51:00 PM

Photo 3 of 3 : UCIP_FA_2019_55578_47350.jpg

WS view: surge box, steel pipe & flap gate

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **14.50** | Rating ** | M | Issue No. | **237** |
| LM End | **14.50** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.321429 ° | 39.321429 ° |
| | | | | -122.016079 ° | -122.016079 ° |
| DWR ID | 17330 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17330
FS_ID:55579
EP_NO: 9508
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Crossing has been updated from No Action Need to Non-Urgent, crossing has been abandoned. The WS pipe end has not been found. Recommend auditing this record to confirm current owner associated with ABO issued as permit number 9508. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. WS pipe end buried. (DWR Sutter Yard- AFreitag)06/14/2016 Pipe was internally cleaned and camera inspected on 11/17/2015 by Nor-Cal Pipeline Services. Pipe section through levee is 86ft long and showed some signs of rusting but no visible holes or other deterioration was found. After the inspection the WS end was capped and reburied until further abandonment can be achieved.04/14/2016 Concrete box on LS cleared of sediment.04/02/2015 Same as last inspection. Concrete box on LS silted in. If abandoned it should be done so properly.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). (24-inch pipe [HLM 14.5] authorized under Automatic Board Order (ABO) issued as Permit No. 9508, 1974 - Jones). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 14.5)].
FS Date: 8/1/2019 1:52:00 PM

Photo 1 of 3 : UCIP_FA_2019_55579_47356.jpg

WS view: CMP riser with slide gate

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **14.50** | Rating ** | M | Issue No. | **237 (cont)** |
| LM End | **14.50** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.321429 ° | 39.321429 ° |
| | | | | -122.016079 ° | -122.016079 ° |
| DWR ID | 17330 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17330
FS_ID:55579
EP_NO: 9508
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Crossing has been updated from No Action Need to Non-Urgent, crossing has been abandoned. The WS pipe end has not been found. Recommend auditing this record to confirm current owner associated with ABO issued as permit number 9508. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. WS pipe end buried. (DWR Sutter Yard- AFreitag)06/14/2016 Pipe was internally cleaned and camera inspected on 11/17/2015 by Nor-Cal Pipeline Services. Pipe section through levee is 86ft long and showed some signs of rusting but no visible holes or other deterioration was found. After the inspection the WS end was capped and reburied until further abandonment can be achieved.04/14/2016 Concrete box on LS cleared of sediment.04/02/2015 Same as last inspection. Concrete box on LS silted in. If abandoned it should be done so properly.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). (24-inch pipe [HLM 14.5] authorized under Automatic Board Order (ABO) issued as Permit No. 9508, 1974 - Jones). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 14.5)].
FS Date: 8/1/2019 1:52:00 PM

Photo 2 of 3 : UCIP_FA_2019_55579_47361.jpg

WS view: levee mile marker

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **14.50** | Rating ** | M | Issue No. | **237 (cont)** |
| LM End | **14.50** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.321429 ° | 39.321429 ° |
| | | | | -122.016079 ° | -122.016079 ° |
| DWR ID | 17330 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17330
FS_ID:55579
EP_NO: 9508
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Crossing has been updated from No Action Need to Non-Urgent, crossing has been abandoned. The WS pipe end has not been found. Recommend auditing this record to confirm current owner associated with ABO issued as permit number 9508. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. WS pipe end buried. (DWR Sutter Yard- AFreitag)06/14/2016 Pipe was internally cleaned and camera inspected on 11/17/2015 by Nor-Cal Pipeline Services. Pipe section through levee is 86ft long and showed some signs of rusting but no visible holes or other deterioration was found. After the inspection the WS end was capped and reburied until further abandonment can be achieved.04/14/2016 Concrete box on LS cleared of sediment.04/02/2015 Same as last inspection. Concrete box on LS silted in. If abandoned it should be done so properly.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). (24-inch pipe [HLM 14.5] authorized under Automatic Board Order (ABO) issued as Permit No. 9508, 1974 - Jones). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 14.5)].
FS Date: 8/1/2019 1:52:00 PM

Photo 3 of 3 : UCIP_FA_2019_55579_47360.jpg

LS view: overview of distribution box

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **14.56** | Rating ** | U | Issue No. | **238** |
| LM End | **14.56** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.322279 ° | 39.322279 ° |
| | | | | -122.015972 ° | -122.015972 ° |
| DWR ID | 17331 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17331
FS_ID:56036
EP_NO: 1833
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Crossing has been updated from Non-Urgent to Urgent due to leaky pipe noted back in 2015. 16-inch pipe has been sleeved through the 42-inch which could be the cause for leaky pipe during high water. There appears to be no way to prevent uncontrolled flood water from WS to LS. This crossing has been abandoned but not properly. Need to remove or abandon this pipe per Title 23 requirements. (O. Magana - DWR UCIP)04/20/2017 No leaky pipe marker present during this inspection but it appears that nothing has changed or was repaired since it was labeled leaky in 2015. (DWR Sutter Yard- AFreitag)10/31/2016 Leaky pipe marker was not present at inspection but nothing appears to have changed with this crossing. (DWR Sutter Yard- AFreitag)06/15/2016 No changes made to this crossing. Leaky pipe marker still present.04/14/2016 Levee slightly caved in one side of surge box on WS04/02/2015 Leaks during high water. 07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/23/2013 Same as last inspection.12/11/2012 Distribution box plugged with cement concrete on LS. Other concrete box plugged with concrete on WS. New steel pipe (about 16 inch diameter) sleeved through CMP pipe. It is visible inside CMP riser. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: 42-inch corrugated metal irrigation pipe through the levee, 14.2 feet below the crown. 16-inch (approximate) pipe has been sleeved through the 42-inch corrugated metal pipe (CMP), with annular space pressure grouted. Pump structure on the waterside (WS) bank, not found in 2016. Concrete surge box at the WS toe. Slide gate in a CMP riser on the WS slope. Concrete distribution box on the landside (LS) across River Road. Phone number provided is 916-802-8293. (Permit No. 1833, 1953 - Carter). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 14.55)].
FS Date: 8/1/2019 1:52:00 PM

Photo 1 of 3 : UCIP_FA_2019_56036_47363.jpg

WS view: CMP riser with slide gate and surge box

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **14.56** | Rating ** | U | Issue No. | **238 (cont)** |
| LM End | **14.56** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.322279 ° | 39.322279 ° |
| | | | | -122.015972 ° | -122.015972 ° |
| DWR ID | 17331 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17331
FS_ID:56036
EP_NO: 1833
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Crossing has been updated from Non-Urgent to Urgent due to leaky pipe noted back in 2015. 16-inch pipe has been sleeved through the 42-inch which could be the cause for leaky pipe during high water. There appears to be no way to prevent uncontrolled flood water from WS to LS. This crossing has been abandoned but not properly. Need to remove or abandon this pipe per Title 23 requirements. (O. Magana - DWR UCIP)04/20/2017 No leaky pipe marker present during this inspection but it appears that nothing has changed or was repaired since it was labeled leaky in 2015. (DWR Sutter Yard- AFreitag)10/31/2016 Leaky pipe marker was not present at inspection but nothing appears to have changed with this crossing. (DWR Sutter Yard- AFreitag)06/15/2016 No changes made to this crossing. Leaky pipe marker still present.04/14/2016 Levee slightly caved in one side of surge box on WS04/02/2015 Leaks during high water. 07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/23/2013 Same as last inspection.12/11/2012 Distribution box plugged with cement concrete on LS. Other concrete box plugged with concrete on WS. New steel pipe (about 16 inch diameter) sleeved through CMP pipe. It is visible inside CMP riser. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: 42-inch corrugated metal irrigation pipe through the levee, 14.2 feet below the crown. 16-inch (approximate) pipe has been sleeved through the 42-inch corrugated metal pipe (CMP), with annular space pressure grouted. Pump structure on the waterside (WS) bank, not found in 2016. Concrete surge box at the WS toe. Slide gate in a CMP riser on the WS slope. Concrete distribution box on the landside (LS) across River Road. Phone number provided is 916-802-8293. (Permit No. 1833, 1953 - Carter). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 14.55)].
FS Date: 8/1/2019 1:52:00 PM

Photo 2 of 3 : UCIP_FA_2019_56036_47362.jpg

WS view: new steel pipe sleeved through CMP pipe.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **14.56** | Rating ** | U | Issue No. | **238 (cont)** |
| LM End | **14.56** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.322279 ° | 39.322279 ° |
| | | | | -122.015972 ° | -122.015972 ° |
| DWR ID | 17331 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17331
FS_ID:56036
EP_NO: 1833
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Crossing has been updated from Non-Urgent to Urgent due to leaky pipe noted back in 2015. 16-inch pipe has been sleeved through the 42-inch which could be the cause for leaky pipe during high water. There appears to be no way to prevent uncontrolled flood water from WS to LS. This crossing has been abandoned but not properly. Need to remove or abandon this pipe per Title 23 requirements. (O. Magana - DWR UCIP)04/20/2017 No leaky pipe marker present during this inspection but it appears that nothing has changed or was repaired since it was labeled leaky in 2015. (DWR Sutter Yard- AFreitag)10/31/2016 Leaky pipe marker was not present at inspection but nothing appears to have changed with this crossing. (DWR Sutter Yard- AFreitag)06/15/2016 No changes made to this crossing. Leaky pipe marker still present.04/14/2016 Levee slightly caved in one side of surge box on WS04/02/2015 Leaks during high water. 07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/23/2013 Same as last inspection.12/11/2012 Distribution box plugged with cement concrete on LS. Other concrete box plugged with concrete on WS. New steel pipe (about 16 inch diameter) sleeved through CMP pipe. It is visible inside CMP riser. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: 42-inch corrugated metal irrigation pipe through the levee, 14.2 feet below the crown. 16-inch (approximate) pipe has been sleeved through the 42-inch corrugated metal pipe (CMP), with annular space pressure grouted. Pump structure on the waterside (WS) bank, not found in 2016. Concrete surge box at the WS toe. Slide gate in a CMP riser on the WS slope. Concrete distribution box on the landside (LS) across River Road. Phone number provided is 916-802-8293. (Permit No. 1833, 1953 - Carter). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 14.55)].
FS Date: 8/1/2019 1:52:00 PM

Photo 3 of 3 : UCIP_FA_2019_56036_47366.jpg

WS view: plugged concrete surge box

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **14.98** | Rating ** | C | Issue No. | **124** |
| LM End | **14.98** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.328222 ° | 39.328222 ° |
| | | | | -122.016572 ° | -122.016572 ° |
| DWR ID | DWR_ST0003_01_s _ 2019_124 | | | | |

Comment Code

TR : Tree or limb

Inspector Comment

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **15.04** | Rating ** | M | Issue No. | **157** |
| LM End | **15.04** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 39.328986 ° | 39.328986 ° |
| | | | | -122.017095 ° | -122.017095 ° |
| DWR ID | DWR_ST0003_01_f _ 2019_157 | | | | |

Comment Code

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **15.17** | Rating ** | M | Issue No. | **71** |
| LM End | **15.48** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.330578 ° | 39.333842 ° |
| | | | | -122.018485 ° | -122.022225 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_71 | | | | |

Comment Code

DT : Ditch

Inspector Comment

Photo 1 of 1 : FA_2019_ST0003_264_71_20190822_00013.jpg

View of a ditch along the landside toe.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **15.36** | Rating ** | M | Issue No. | **239** |
| LM End | **15.36** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.332611 ° | 39.332611 ° |
| | | | | -122.020798 ° | -122.020798 ° |
| DWR ID | 17332 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17332
FS_ID:55583
EP_NO: 2638
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 08/01/2019 Crossing has been upgraded to Non-Urgent; no line has been found and no maintenance records were made available to determine the status of this line. Need to contact owner to obtain status of crossing. (O. Magana - DWR UCIP)04/20/2017 Unable to locate. (DWR Sutter Yard- AFreitag)10/31/2016 Unable to locate. (DWR Sutter Yard- AFreitag)06/15/2016 Unable to locate.04/02/2015 Unable to locate.07/02/2014 Unable to locate.12/19/2013 Unable to locate.07/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: *ABANDONED* 6.625-inch asphalt coated steel gas pipeline through the levee, 3 feet below the crown. A reinforced concrete cutoff wall was placed around the pipe on the waterside (WS) of the levee crown. Pipe was pressure grouted in 1967. (Permit No. 2638, 1957 - Pacific Gas and Electric Company). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 8/1/2019 1:53:00 PM

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **15.48** | Rating ** | M | Issue No. | **240** |
| LM End | **15.48** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.333868 ° | 39.333868 ° |
| | | | | -122.022243 ° | -122.022243 ° |
| DWR ID | 17333 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17333
FS_ID:55586
EP_NO: 9506
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Crossing remains Non-Urgent; record need to be audited to correct ABO issued as permit number 9506. (O. Magana - DWR UCIP)04/20/2017 Both pipe ends were underwater during site visit but it appears to be in good condition. (DWR Sutter Yard- AFreitag)10/31/2016 Minor erosion caused by rain runoff starting at the top of the WS headwall. Rest of crossing appears in good condition. (DWR Sutter Yard- AFreitag)06/15/2016 Both pipe ends were underwater but appear to be in good condition.04/02/2015 Pipe and ditches were full of water. Everything seemed to be in good shape.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/23/2013 Same as last inspection.12/11/2012 Water full on inlet and outlet of the structure. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch irrigation pipe of an unknown material through the levee, 16.5 feet below the crown. Pump in the floodway. Irrigation transfer ditch on the waterside (WS) to concrete surge box at the WS toe. Slide gates in a corrugated metal pipe (CMP) riser on the WS slope. Discharges into a concrete distribution box at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9506, 1974 - Carter). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 15.46)].
FS Date: 8/1/2019 1:54:00 PM

Photo 1 of 3 : UCIP_FA_2019_55586_47371.jpg

Crown view: overview (both sides of the levee)

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **15.48** | Rating ** | M | Issue No. | **240 (cont)** |
| LM End | **15.48** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_55586_47370.jpg

WS view: CMP riser, inlet box and water transfer ditch

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **15.48** | Rating ** | M | Issue No. | **240 (cont)** |
| LM End | **15.48** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.333868 ° | 39.333868 ° |
| | | | | -122.022243 ° | -122.022243 ° |
| DWR ID | 17333 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17333
FS_ID:55586
EP_NO: 9506
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/01/2019 Crossing remains Non-Urgent; record need to be audited to correct ABO issued as permit number 9506. (O. Magana - DWR UCIP)04/20/2017 Both pipe ends were underwater during site visit but it appears to be in good condition. (DWR Sutter Yard- AFreitag)10/31/2016 Minor erosion caused by rain runoff starting at the top of the WS headwall. Rest of crossing appears in good condition. (DWR Sutter Yard- AFreitag)06/15/2016 Both pipe ends were underwater but appear to be in good condition.04/02/2015 Pipe and ditches were full of water. Everything seemed to be in good shape.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/23/2013 Same as last inspection.12/11/2012 Water full on inlet and outlet of the structure. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch irrigation pipe of an unknown material through the levee, 16.5 feet below the crown. Pump in the floodway. Irrigation transfer ditch on the waterside (WS) to concrete surge box at the WS toe. Slide gates in a corrugated metal pipe (CMP) riser on the WS slope. Discharges into a concrete distribution box at the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9506, 1974 - Carter). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 15.46)].
FS Date: 8/1/2019 1:54:00 PM

Photo 3 of 3 : UCIP_FA_2019_55586_47369.jpg

WS view: inside CMP riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **15.81** | Rating ** | M | Issue No. | **241** |
| LM End | **15.81** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.338029 ° | 39.338029 ° |
| | | | | -122.022711 ° | -122.022711 ° |
| DWR ID | 17334 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17334
FS_ID:55587
EP_NO: 2599
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 08/01/2019 Crossing remains Non-Urgent; unable to determine status of line through the levee. Need to contact owner to determine status of crossing. (O. Magana - DWR UCIP)04/20/2017 Unable to locate. (DWR Sutter Yard- AFreitag)10/31/2016 Unable to locate. (DWR Sutter Yard- AFreitag)06/15/2016 Unable to locate.04/02/2015 Unable to locate. Need to contact owner to determine status and location of this crossing. 07/02/2014 Unable to locate.12/19/2013 Unable to locate.07/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 2.375-inch unwrapped steel high pressure gas pipeline through the levee, 2.6 feet below the crown. (Permit No. 2599, 1957 - Honolulu Oil Corporation). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 8/1/2019 1:54:00 PM

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **16.12** | Rating ** | M | Issue No. | **242** |
| LM End | **16.12** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.341653 ° | 39.341653 ° |
| | | | | -122.023908 ° | -122.023908 ° |
| DWR ID | 17335 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17335
FS_ID:55588
EP_NO: 2651
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 08/01/2019 Crossing remains Non-Urgent; unable to determine status of line through the levee. Need to contact owner to determine status of crossing. (O. Magana - DWR UCIP)04/20/2017 Unable to locate. (DWR Sutter Yard- AFreitag)10/31/2016 Unable to locate. (DWR Sutter Yard- AFreitag)06/15/2016 Unable to locate.04/02/2015 Unable to locate. Need to contact owner to determine status and location of this crossing. 07/02/2014 Unable to locate.12/19/2013 Unable to locate07/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 2.375-inch unwrapped steel high pressure gas pipeline through the levee, 2.6 feet below the crown. (Permit No. 2651, 1957 - Occidental Petroleum Corporation). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 8/1/2019 1:55:00 PM

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **16.21** | Rating ** | M | Issue No. | **243** |
| LM End | **16.21** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.342905 ° | 39.342905 ° |
| | | | | -122.024215 ° | -122.024215 ° |
| DWR ID | 17336 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17336
FS_ID:55589
EP_NO: 2651
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 08/01/2019 Crossing remains Non-Urgent; unable to determine status of line through the levee. Need to contact owner to determine status of crossing. (O. Magana - DWR UCIP)04/20/2017 Unable to locate. (DWR Sutter Yard- AFreitag)10/31/2016 Unable to locate. (DWR Sutter Yard- AFreitag)06/15/2016 Unable to locate.04/02/2015 Unable to locate. Need to contact owner to determine status and location of crossing.07/02/2014 Unable to locate.12/19/2013 Unable to locate07/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 2.375-inch unwrapped steel high pressure gas pipeline through the levee, 2.5 feet below the crown. (Permit No. 2651, 1957 - Occidental Petroleum Corporation). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 8/1/2019 1:55:00 PM

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **16.30** | Rating ** | M | Issue No. | **244** |
| LM End | **16.30** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.344177 ° | 39.344177 ° |
| | | | | -122.024300 ° | -122.024300 ° |
| DWR ID | 17337 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17337
FS_ID:55591
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing remains Non-Urgent, pipe remains abandoned. No permit has been found authorizing pipe. Internal inspection was completed in 2015; refer to internal inspection report and notes recorded during 06-15-16 inspection. Internal inspection report only noted a sag in the pipe at about 33.5 feet from LS going to WS. Pipe was opened for internal inspection but inlet/outlet were closed/buried again. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)11/01/2016 Abandoned. Pipe is buried and not visible but a white marker on WS shoulder shows its location. (DWR Sutter Yard- AFreitag)06/15/2016 Pipe was dug up and internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. Pipe section through the levee is 88ft long and showed signs of rusting but no holes or other deterioration was found. The WS flap gate was broken during excavation but doesn't pose an issue as the pipe was capped and reburied until further abandonment can be achieved. Unfortunately the pipe was not photographed when exposed.04/14/2016 Same as last inspection.04/02/2015 Unable to locate. Pipe has been selected to be dug up and internally camera inspected.07/02/2014 Unable to locate.12/19/2013 Unable to locate07/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 42-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Metal flap gate on the waterside (WS) silted over. Brick "U" shaped headwall on the WS toe. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 16.29)].
FS Date: 8/5/2019 2:23:00 PM

Photo 1 of 3 : UCIP_FA_2019_55591_75096.jpg

View from crown down WS slope at location of crossing.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **16.30** | Rating ** | M | Issue No. | **244 (cont)** |
| LM End | **16.30** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.344177 ° | 39.344177 ° |
| | | | | -122.024300 ° | -122.024300 ° |
| DWR ID | 17337 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17337
FS_ID:55591
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing remains Non-Urgent, pipe remains abandoned. No permit has been found authorizing pipe. Internal inspection was completed in 2015; refer to internal inspection report and notes recorded during 06-15-16 inspection. Internal inspection report only noted a sag in the pipe at about 33.5 feet from LS going to WS. Pipe was opened for internal inspection but inlet/outlet were closed/buried again. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)11/01/2016 Abandoned. Pipe is buried and not visible but a white marker on WS shoulder shows its location. (DWR Sutter Yard- AFreitag)06/15/2016 Pipe was dug up and internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. Pipe section through the levee is 88ft long and showed signs of rusting but no holes or other deterioration was found. The WS flap gate was broken during excavation but doesn't pose an issue as the pipe was capped and reburied until further abandonment can be achieved. Unfortunately the pipe was not photographed when exposed.04/14/2016 Same as last inspection.04/02/2015 Unable to locate. Pipe has been selected to be dug up and internally camera inspected.07/02/2014 Unable to locate.12/19/2013 Unable to locate07/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 42-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Metal flap gate on the waterside (WS) silted over. Brick "U" shaped headwall on the WS toe. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 16.29)].
FS Date: 8/5/2019 2:23:00 PM

Photo 2 of 3 : UCIP_FA_2019_55591_75097.jpg

View of LS from crown at location of crossing.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **16.30** | Rating ** | M | Issue No. | **244 (cont)** |
| LM End | **16.30** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.344177 ° | 39.344177 ° |
| | | | | -122.024300 ° | -122.024300 ° |
| DWR ID | 17337 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17337
FS_ID:55591
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing remains Non-Urgent, pipe remains abandoned. No permit has been found authorizing pipe. Internal inspection was completed in 2015; refer to internal inspection report and notes recorded during 06-15-16 inspection. Internal inspection report only noted a sag in the pipe at about 33.5 feet from LS going to WS. Pipe was opened for internal inspection but inlet/outlet were closed/buried again. Recommend LMA prepare a contingency plan for increased inspections during high-water to identify any pipe integrity or levee integrity issues that might arise with abandoned pipe. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)11/01/2016 Abandoned. Pipe is buried and not visible but a white marker on WS shoulder shows its location. (DWR Sutter Yard- AFreitag)06/15/2016 Pipe was dug up and internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. Pipe section through the levee is 88ft long and showed signs of rusting but no holes or other deterioration was found. The WS flap gate was broken during excavation but doesn't pose an issue as the pipe was capped and reburied until further abandonment can be achieved. Unfortunately the pipe was not photographed when exposed.04/14/2016 Same as last inspection.04/02/2015 Unable to locate. Pipe has been selected to be dug up and internally camera inspected.07/02/2014 Unable to locate.12/19/2013 Unable to locate07/23/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 42-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Metal flap gate on the waterside (WS) silted over. Brick "U" shaped headwall on the WS toe. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 16.29)].
FS Date: 8/5/2019 2:23:00 PM

Photo 3 of 3 : UCIP_FA_2019_55591_75098.jpg

Looking up WS slope: bare spot where pipe was previously excavated, video inspected, and backfilled.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **16.41** | Rating ** | C | Issue No. | **127** |
| LM End | **16.41** | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 39.345510 ° | 39.345510 ° |
| | | | | -122.023052 ° | -122.023052 ° |
| DWR ID | DWR_ST0003_01_f _ 2019_127 | | | | |

**Comment Code**

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

**Inspector Comment**

Small animal burrows are no longer present. Burrows were backfilled during the dragging of the slope.

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **16.43** | Rating ** | M | Issue No. | **245** |
| LM End | **16.43** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.345635 ° | 39.345635 ° |
| | | | | -122.022915 ° | -122.022915 ° |
| DWR ID | 17349 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17349
FS_ID:55593
EP_NO: 9500
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing remains Non-Urgent; crossing has been abandoned. Recommend auditing records to resolve ABO issued as permit number 9500. Pipe on the WS has been buried. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/01/2016 Abandoned. (DWR Sutter Yard- AFreitag)06/15/2016 Abandoned- WS slide gate and LS distribution box are silted over.04/16/2016 Same as last inspection. Appears abandoned and should be done so properly.04/02/2015 WS slide gate and LS distribution box are still silted over.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/23/2013 Same as last inspection.12/11/2012 Seems abandoned as slide gate and distribution box silted. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 48-inch corrugated metal irrigation and drainage pipe through the levee, 17 feet below the crown, not found in 2016. Slide gate on the waterside (WS), found in 2016. 8-inch steel pipe sleeved through the 48-inch pipe during the summer months, not found in 2016. Discharges into a concrete distribution box on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9500, 1974 - Zumwalt Orchards, Inc.). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 16.42)].
FS Date: 8/5/2019 2:26:00 PM

Photo 1 of 3 : UCIP_FA_2019_55593_47380.jpg

WS view: overview of slide gate

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **16.43** | Rating ** | M | Issue No. | **245 (cont)** |
| LM End | **16.43** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.345635 ° | 39.345635 ° |
| | | | | -122.022915 ° | -122.022915 ° |
| DWR ID | 17349 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17349
FS_ID:55593
EP_NO: 9500
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing remains Non-Urgent; crossing has been abandoned. Recommend auditing records to resolve ABO issued as permit number 9500. Pipe on the WS has been buried. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/01/2016 Abandoned. (DWR Sutter Yard- AFreitag)06/15/2016 Abandoned- WS slide gate and LS distribution box are silted over.04/16/2016 Same as last inspection. Appears abandoned and should be done so properly.04/02/2015 WS slide gate and LS distribution box are still silted over.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/23/2013 Same as last inspection.12/11/2012 Seems abandoned as slide gate and distribution box silted. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 48-inch corrugated metal irrigation and drainage pipe through the levee, 17 feet below the crown, not found in 2016. Slide gate on the waterside (WS), found in 2016. 8-inch steel pipe sleeved through the 48-inch pipe during the summer months, not found in 2016. Discharges into a concrete distribution box on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9500, 1974 - Zumwalt Orchards, Inc.). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 16.42)].
FS Date: 8/5/2019 2:26:00 PM

Photo 2 of 3 : UCIP_FA_2019_55593_47379.jpg

WS view: slide gate on steel structure

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **16.43** | Rating ** | M | Issue No. | **245 (cont)** |
| LM End | **16.43** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.345635 ° | 39.345635 ° |
| | | | | -122.022915 ° | -122.022915 ° |
| DWR ID | 17349 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17349
FS_ID:55593
EP_NO: 9500
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing remains Non-Urgent; crossing has been abandoned. Recommend auditing records to resolve ABO issued as permit number 9500. Pipe on the WS has been buried. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/01/2016 Abandoned. (DWR Sutter Yard- AFreitag)06/15/2016 Abandoned- WS slide gate and LS distribution box are silted over.04/16/2016 Same as last inspection. Appears abandoned and should be done so properly.04/02/2015 WS slide gate and LS distribution box are still silted over.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/23/2013 Same as last inspection.12/11/2012 Seems abandoned as slide gate and distribution box silted. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 48-inch corrugated metal irrigation and drainage pipe through the levee, 17 feet below the crown, not found in 2016. Slide gate on the waterside (WS), found in 2016. 8-inch steel pipe sleeved through the 48-inch pipe during the summer months, not found in 2016. Discharges into a concrete distribution box on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9500, 1974 - Zumwalt Orchards, Inc.). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 16.42)].
FS Date: 8/5/2019 2:26:00 PM

Photo 3 of 3 : UCIP_FA_2019_55593_47378.jpg

WS view: silt and debri infront of slide gate

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **16.56** | Rating ** | M | Issue No. | **158** |
| LM End | **16.56** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.347119 ° | 39.347119 ° |
| | | | | -122.021241 ° | -122.021241 ° |
| DWR ID | DWR_ST0003_01_f _ 2019_158 | | | | |

**Comment Code**

TR : Tree or limb

**Inspector Comment**

The fallen tree should be removed from the waterside slope.

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **16.93** | Rating ** | C | Issue No. | **69** |
| LM End | **16.93** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.347263 ° | 39.347263 ° |
| | | | | -122.015608 ° | -122.015608 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_69 | | | | |

**Comment Code**

PR : Prunings

**Inspector Comment**

Remove prunings from the landside toe.

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **16.96** | Rating ** | M | Issue No. | **68** |
| LM End | **16.96** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.347312 ° | 39.347312 ° |
| | | | | -122.015137 ° | -122.015137 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_68 | | | | |

**Comment Code**

PR : Prunings

**Inspector Comment**

Remove prunings from the landside toe.

Photo 1 of 1 : FA_2019_ST0003_264_68_20190822_00012.jpg

View of the prunings along the landside toe.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **17.29** | Rating ** | M | Issue No. | **246** |
| LM End | **17.29** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.349439 ° | 39.349439 ° |
| | | | | -122.010061 ° | -122.010061 ° |
| DWR ID | 17339 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17339
FS_ID:55595
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Culvert has been upgraded from No Action Needed to Non-Urgent, culvert has been abandoned through the levee. DWR DMP geophysical investigation report did not find any signs of metal crossing through the levee. Culvert will remain in UCIP's list until a future levee improvement project can confirm culvert through levee. This culvert will remain in the inspection list and will need to be monitored in case any integrity issues with the levee arise. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done properly. A new survey stake was placed at the WS shoulder above the pipe alignment with "MBK 1" written on it. Not sure of its purpose. (DWR Sutter Yard- AFreitag)11/01/2016 Abandoned/plugged. (DWR Sutter Yard- AFreitag)06/15/2016 WS end was dug up in November 2015 and verified that the concrete plug is in place.04/02/2015 Only WS concrete headwall was found. Pipe has been selected to be dug up and internally camera inspected. Abandoned concrete structure found on waterside and concrete debris found on landside of the levee.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch by 60-inch reinforced concrete box drainage culvert through the levee, 20.5 feet below the crown. Waterside (WS) end of the pipe is plugged with concrete for 5 feet. Landside (LS) end of the culvert was filled with dirt in 1980. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 17.3)].
FS Date: 8/5/2019 2:27:00 PM

Photo 1 of 3 : UCIP_FA_2019_55595_47383.jpg

WS view: overview of abandoned/damaged concrete structure

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **17.29** | Rating ** | M | Issue No. | **246 (cont)** |
| LM End | **17.29** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.349439 ° | 39.349439 ° |
| | | | | -122.010061 ° | -122.010061 ° |
| DWR ID | 17339 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17339
FS_ID:55595
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Culvert has been upgraded from No Action Needed to Non-Urgent, culvert has been abandoned through the levee. DWR DMP geophysical investigation report did not find any signs of metal crossing through the levee. Culvert will remain in UCIP's list until a future levee improvement project can confirm culvert through levee. This culvert will remain in the inspection list and will need to be monitored in case any integrity issues with the levee arise. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done properly. A new survey stake was placed at the WS shoulder above the pipe alignment with "MBK 1" written on it. Not sure of its purpose. (DWR Sutter Yard- AFreitag)11/01/2016 Abandoned/plugged. (DWR Sutter Yard- AFreitag)06/15/2016 WS end was dug up in November 2015 and verified that the concrete plug is in place.04/02/2015 Only WS concrete headwall was found. Pipe has been selected to be dug up and internally camera inspected. Abandoned concrete structure found on waterside and concrete debris found on landside of the levee.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch by 60-inch reinforced concrete box drainage culvert through the levee, 20.5 feet below the crown. Waterside (WS) end of the pipe is plugged with concrete for 5 feet. Landside (LS) end of the culvert was filled with dirt in 1980. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 17.3)].
FS Date: 8/5/2019 2:27:00 PM

Photo 2 of 3 : UCIP_FA_2019_55595_47382.jpg

WS view: closer view of the concrete structure

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **17.29** | Rating ** | M | Issue No. | **246 (cont)** |
| LM End | **17.29** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.349439 ° | 39.349439 ° |
| | | | | -122.010061 ° | -122.010061 ° |
| DWR ID | 17339 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17339
FS_ID:55595
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Culvert has been upgraded from No Action Needed to Non-Urgent, culvert has been abandoned through the levee. DWR DMP geophysical investigation report did not find any signs of metal crossing through the levee. Culvert will remain in UCIP's list until a future levee improvement project can confirm culvert through levee. This culvert will remain in the inspection list and will need to be monitored in case any integrity issues with the levee arise. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done properly. A new survey stake was placed at the WS shoulder above the pipe alignment with "MBK 1" written on it. Not sure of its purpose. (DWR Sutter Yard- AFreitag)11/01/2016 Abandoned/plugged. (DWR Sutter Yard- AFreitag)06/15/2016 WS end was dug up in November 2015 and verified that the concrete plug is in place.04/02/2015 Only WS concrete headwall was found. Pipe has been selected to be dug up and internally camera inspected. Abandoned concrete structure found on waterside and concrete debris found on landside of the levee.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch by 60-inch reinforced concrete box drainage culvert through the levee, 20.5 feet below the crown. Waterside (WS) end of the pipe is plugged with concrete for 5 feet. Landside (LS) end of the culvert was filled with dirt in 1980. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 17.3)].
FS Date: 8/5/2019 2:27:00 PM

Photo 3 of 3 : UCIP_FA_2019_55595_47381.jpg

LS view: remainings of concrete structure

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **17.42** | Rating ** | M | Issue No. | **66** |
| LM End | **17.42** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.351322 ° | 39.351322 ° |
| | | | | -122.009348 ° | -122.009348 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_66 | | | | |

**Comment Code**

PR : Prunings

**Inspector Comment**

Remove prunings from the landside toe.

Photo 1 of 1 : FA_2019_ST0003_264_66_20190822_00011.jpg

View of the prunings along the landside toe.

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **17.51** | Rating ** | M | Issue No. | **65** |
| LM End | **17.51** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.352615 ° | 39.352615 ° |
| | | | | -122.009247 ° | -122.009247 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_65 | | | | |

**Comment Code**

PR : Prunings

**Inspector Comment**

Remove prunings from the landside toe.

Photo 1 of 1 : FA_2019_ST0003_264_65_20190822_00010.jpg

View of the prunings along the landside toe.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **17.58** | Rating ** | U | Issue No. | **247** |
| LM End | **17.58** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.353531 ° | 39.353531 ° |
| | | | | -122.009138 ° | -122.009138 ° |
| DWR ID | 17329 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17329
FS_ID:55599
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing has been updated from Non-Urgent to Urgent due to leak observed in 2017 during high water. The appears to be a leak that could be caused by the screw gate not fully closed allowing water from the WS to LS. No permit has been found authorizing the crossing. If crossing is no longer in use, owner will need to remove or abandon properly per Title 23 requirements. Slide gate width measures 36 inches and not the 24 inches that is needed for the 24-inch pipe. (O. Magana - DWR UCIP)04/20/2017 Abandoned-needs to be done properly. Pipe had a small leak during high water and is believed to be caused by the screw gate not being fully closed before it was reburied after its internal inspection. (DWR Sutter Yard-AFreitag)11/01/2016 Abandoned. (DWR Sutter Yard-AFreitag)06/15/2016 Pipe was dug up and internally cleaned and camera inspected on 11/18/2015 by Nor-Cal Pipeline Services. Pipe section through levee is about 93.8ft long. Inspection showed signs of rusting but no holes or other deterioration was found. WS end and slide gate were photographed, LS end was not. After the inspection pipe ends were capped and reburied until further abandonment can be achieved.04/02/2015 WS pipe end was dug up in preparation for internal camera inspection. Only steel slide gate structure found on waterside.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 15.8 feet below the crown. Slide gate on the waterside (WS) end. Both pipe ends are silted over. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 17.6)].
FS Date: 8/5/2019 2:29:00 PM

Photo 1 of 3 : UCIP_FA_2019_55599_47384.jpg

LS view: overview. No pipe found.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **17.58** | Rating ** | U | Issue No. | **247 (cont)** |
| LM End | **17.58** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.353531 ° | 39.353531 ° |
| | | | | -122.009138 ° | -122.009138 ° |
| DWR ID | 17329 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17329
FS_ID:55599
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing has been updated from Non-Urgent to Urgent due to leak observed in 2017 during high water. The appears to be a leak that could be caused by the screw gate not fully closed allowing water from the WS to LS. No permit has been found authorizing the crossing. If crossing is no longer in use, owner will need to remove or abandon properly per Title 23 requirements. Slide gate width measures 36 inches and not the 24 inches that is needed for the 24-inch pipe. (O. Magana - DWR UCIP)04/20/2017 Abandoned-needs to be done properly. Pipe had a small leak during high water and is believed to be caused by the screw gate not being fully closed before it was reburied after its internal inspection. (DWR Sutter Yard-AFreitag)11/01/2016 Abandoned. (DWR Sutter Yard-AFreitag)06/15/2016 Pipe was dug up and internally cleaned and camera inspected on 11/18/2015 by Nor-Cal Pipeline Services. Pipe section through levee is about 93.8ft long. Inspection showed signs of rusting but no holes or other deterioration was found. WS end and slide gate were photographed, LS end was not. After the inspection pipe ends were capped and reburied until further abandonment can be achieved.04/02/2015 WS pipe end was dug up in preparation for internal camera inspection. Only steel slide gate structure found on waterside.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 15.8 feet below the crown. Slide gate on the waterside (WS) end. Both pipe ends are silted over. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 17.6)].
FS Date: 8/5/2019 2:29:00 PM

Photo 2 of 3 : UCIP_FA_2019_55599_47386.jpg

WS view: slide gate steel structure

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **17.58** | Rating ** | U | Issue No. | **247 (cont)** |
| LM End | **17.58** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.353531 ° | 39.353531 ° |
| | | | | -122.009138 ° | -122.009138 ° |
| DWR ID | 17329 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17329
FS_ID:55599
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing has been updated from Non-Urgent to Urgent due to leak observed in 2017 during high water. The appears to be a leak that could be caused by the screw gate not fully closed allowing water from the WS to LS. No permit has been found authorizing the crossing. If crossing is no longer in use, owner will need to remove or abandon properly per Title 23 requirements. Slide gate width measures 36 inches and not the 24 inches that is needed for the 24-inch pipe. (O. Magana - DWR UCIP)04/20/2017 Abandoned-needs to be done properly. Pipe had a small leak during high water and is believed to be caused by the screw gate not being fully closed before it was reburied after its internal inspection. (DWR Sutter Yard-AFreitag)11/01/2016 Abandoned. (DWR Sutter Yard-AFreitag)06/15/2016 Pipe was dug up and internally cleaned and camera inspected on 11/18/2015 by Nor-Cal Pipeline Services. Pipe section through levee is about 93.8ft long. Inspection showed signs of rusting but no holes or other deterioration was found. WS end and slide gate were photographed, LS end was not. After the inspection pipe ends were capped and reburied until further abandonment can be achieved.04/02/2015 WS pipe end was dug up in preparation for internal camera inspection. Only steel slide gate structure found on waterside.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 15.8 feet below the crown. Slide gate on the waterside (WS) end. Both pipe ends are silted over. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 17.6)].
FS Date: 8/5/2019 2:29:00 PM

Photo 3 of 3 : UCIP_FA_2019_55599_47385.jpg

WS view: burried slide gate

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **17.63** | Rating ** | M | Issue No. | **96** |
| LM End | **17.63** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.354300 ° | 39.354300 ° |
| | | | | -122.009217 ° | -122.009217 ° |
| DWR ID | DWR_ST0003_01_f _ 2018_96 | | | | |

**Comment Code**

EQ : Equipment

**Inspector Comment**

Remove equipment from the landside toe.

Photo 1 of 1 : FA_2019_ST0003_264_96_20190822_00022.jpg

View of the equipment along the landside toe.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **17.79** | Rating ** | M | Issue No. | **248** |
| LM End | **17.79** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.356539 ° | 39.356539 ° |
| | | | | -122.008940 ° | -122.008940 ° |
| DWR ID | 17341 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17341
FS_ID:55600
EP_NO: 11540A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing has been updated from No Action Needed to Non-Urgent due to modifications observed on the LS and WS toe. New elbow valve has been installed on the WS toe (2016). Need to contact owner to determine maintenance records of line through the levee. (O. Magana - DWR UCIP)04/20/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/01/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/03/2016 Landside pump set was running and water was bubbling form the LS shoulder siphon breaker so the pump set is definitely tied to this crossing. A new elbow valve was also found near the WS toe.04/02/2015 Same as last inspection. Only found a siphon breaker on landside and a valve in waterside. A pumping set found on LS, not sure if it belongs to this crossing.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee, 3.2 feet below the crown, not found in 2015. Siphon breaker with protective housing on the landside (LS) shoulder, found in 2015. (6-inch pipe authorized under Permit No. 11540-A, 1976 - Wilearlee Walnuts; additional Related Permit(s): Permit No. 11540, 1976 - Wilearlee Walnuts). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 8/5/2019 2:33:00 PM

Photo 1 of 3 : UCIP_FA_2019_55600_47387.jpg

WS view: overview

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **17.79** | Rating ** | M | Issue No. | **248 (cont)** |
| LM End | **17.79** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_55600_75228.jpg

Elbow valve near WS levee toe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **17.79** | Rating ** | M | Issue No. | **248 (cont)** |
| LM End | **17.79** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.356539 ° | 39.356539 ° |
| | | | | -122.008940 ° | -122.008940 ° |
| DWR ID | 17341 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17341
FS_ID:55600
EP_NO: 11540A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing has been updated from No Action Needed to Non-Urgent due to modifications observed on the LS and WS toe. New elbow valve has been installed on the WS toe (2016). Need to contact owner to determine maintenance records of line through the levee. (O. Magana - DWR UCIP)04/20/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/01/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/03/2016 Landside pump set was running and water was bubbling form the LS shoulder siphon breaker so the pump set is definitely tied to this crossing. A new elbow valve was also found near the WS toe.04/02/2015 Same as last inspection. Only found a siphon breaker on landside and a valve in waterside. A pumping set found on LS, not sure if it belongs to this crossing.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee, 3.2 feet below the crown, not found in 2015. Siphon breaker with protective housing on the landside (LS) shoulder, found in 2015. (6-inch pipe authorized under Permit No. 11540-A, 1976 - Wilearlee Walnuts; additional Related Permit(s): Permit No. 11540, 1976 - Wilearlee Walnuts). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 8/5/2019 2:33:00 PM

Photo 3 of 3 : UCIP_FA_2019_55600_47388.jpg

LS view: overview of siphon breaker and pump

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **17.97** | Rating ** | M | Issue No. | **63** |
| LM End | **18.05** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.358920 ° | 39.359547 ° |
| | | | | -122.007537 ° | -122.006293 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_63 | | | | |

**Comment Code**

MA : Material

**Inspector Comment**

Remove materials from the landside toe.

Photo 1 of 1 : FA_2019_ST0003_264_63_20190822_00009.jpg

View of the materials along the landside toe.

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **18.07** | Rating ** | M | Issue No. | **101** |
| LM End | **18.07** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.359692 ° | 39.359692 ° |
| | | | | -122.005892 ° | -122.005892 ° |
| DWR ID | DWR_ST0003_01_f _ 2018_101 | | | | |

**Comment Code**

PR : Prunings

**Inspector Comment**

Remove the prunings from the landside toe.

Photo 1 of 1 : FA_2019_ST0003_264_101_20190822_00027.jpg

View of the prunings along the landside toe.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **18.07** | Rating ** | M | Issue No. | **249** |
| LM End | **18.07** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.359675 ° | 39.359675 ° |
| | | | | -122.005879 ° | -122.005879 ° |
| DWR ID | 17342 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17342
FS_ID:55601
EP_NO: 14217
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 08/05/2019 Crossing remains Non-Urgent no records were found to determine the status of the pipe through the levee. (O. Magana - DWR UCIP)04/20/2017 Unable to locate. (DWR Sutter Yard- AFreitag)11/01/2016 Unable to locate. (DWR Sutter Yard- AFreitag)06/03/2016 Unable to locate.04/02/2015 Unable to locate.Need to contact owner to determine status and location of this crossing. 07/02/2014 Unable to locate.12/19/2013 Unable to locate.07/24/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 1 of 2: 2-inch asphalt coated steel gas pipeline through the levee, 2 feet below the crown. (Permit No. 14217, 1985 - Jordan Oil and Gas Company). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 8/5/2019 2:53:00 PM

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **18.07** | Rating ** | M | Issue No. | **250** |
| LM End | **18.07** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.359675 ° | 39.359675 ° |
| | | | | -122.005879 ° | -122.005879 ° |
| DWR ID | 17520 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17520
FS_ID:55602
EP_NO: 14217
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 08/05/2019 Crossing remains Non-Urgent no records were found to determine the status of the pipe through the levee. (O. Magana - DWR UCIP)04/20/2017 Unable to locate. (DWR Sutter Yard- AFreitag)11/01/2016 Unable to locate. (DWR Sutter Yard- AFreitag)06/03/2016 Unable to locate.04/02/2015 Unable to locate. Need to contact owner to determine status and location of this crossing.07/02/2014 Unable to locate.12/19/2013 Unable to locate.07/24/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 2 of 2: 2-inch asphalt coated steel gas pipeline through the levee, 2 feet below the crown. (Permit No. 14217, 1985, - Jordan Oil and Gas Company). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 8/5/2019 2:54:00 PM

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **18.12** | Rating ** | M | Issue No. | **62** |
| LM End | **18.12** | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.359957 ° | 39.359957 ° |
| | | | | -122.005063 ° | -122.005063 ° |
| DWR ID | DWR_ST0003_01_f _ 2016_62 | | | | |

**Comment Code**

TR : Tree or limb

**Inspector Comment**

Fruit trees are located at the landside toe.

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **18.19** | Rating ** | M | Issue No. | **251** |
| LM End | **18.19** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.359983 ° | 39.359983 ° |
| | | | | -122.003732 ° | -122.003732 ° |
| DWR ID | 17343 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17343
FS_ID:55604
EP_NO: 9502
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing remains Non-Urgent, crossing has been abandoned. Owner will need to work with the CVFPB to remove or abandon the crossing per Title 23 requirements. Need to audit this record to confirm ABO issued as permit number 9502 and permit number 11540 are still valid for 36-inch pipe. Unable to confirm if 36-inch pipe has been abandoned properly. Permit records indicate pumping plant and discharge pipe, 36-inch pipe, through the levee was suppose to be abandoned or removed. Per special condition TWENTY: That the abandoned pipe shall be completely filled with grout under pressure within the levee section in accordance with Reclamation Board Standards and TWENTY-ONE: that all appurtenances, other than the 36-inch diameter, at the site of the abandoned pumping plant shall be removed from the levee section. However, permit records (page 6 of 29) dated October 1976 indicate that applicant planned to continue using the existing pump plan and 36-inch discharge line during the winter months. (O. Magana - DWR UCIP)04/20/2017 Abandoned-needs to be done properly. (DWR Sutter Yard- AFreitag)11/01/2016 Abandoned. (DWR Sutter Yard- AFreitag)06/03/2016 Abandoned crossing.04/02/2015 Same as last inspection. Vertical pump on bank not found as bank is not accessible. An abandoned electrical switch found on waterside. Landside distribution box is filled with debris and soil. Crossing appears abandoned and should be verified as having been done so properly. 07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal irrigation pipe through the levee, 18 feet below the crown. Vertical pump on the waterside (WS) bank, not found in 2015. Slide gate in a concrete box on the WS toe. Pipe discharges into a concrete distribution box on the landside (LS) toe. Pole on the WS shoulder and an abandoned electrical switch found on the WS. (36-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9502, 1974 - Coffman; existing 36-inch was allowed to be used during winter months under Permit No. 11540, 1976 - Wilearlee Walnuts). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.22)].
FS Date: 8/5/2019 2:38:00 PM

Photo 1 of 3 : UCIP_FA_2019_55604_47394.jpg

WS view: overview of gate riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **18.19** | Rating ** | M | Issue No. | **251 (cont)** |
| LM End | **18.19** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.359983 ° | 39.359983 ° |
| | | | | -122.003732 ° | -122.003732 ° |
| DWR ID | 17343 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17343
FS_ID:55604
EP_NO: 9502
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing remains Non-Urgent, crossing has been abandoned. Owner will need to work with the CVFPB to remove or abandon the crossing per Title 23 requirements. Need to audit this record to confirm ABO issued as permit number 9502 and permit number 11540 are still valid for 36-inch pipe. Unable to confirm if 36-inch pipe has been abandoned properly. Permit records indicate pumping plant and discharge pipe, 36-inch pipe, through the levee was suppose to be abandoned or removed. Per special condition TWENTY: That the abandoned pipe shall be completely filled with grout under pressure within the levee section in accordance with Reclamation Board Standards and TWENTY-ONE: that all appurtenances, other than the 36-inch diameter, at the site of the abandoned pumping plant shall be removed from the levee section. However, permit records (page 6 of 29) dated October 1976 indicate that applicant planned to continue using the existing pump plan and 36-inch discharge line during the winter months. (O. Magana - DWR UCIP)04/20/2017 Abandoned-needs to be done properly. (DWR Sutter Yard- AFreitag)11/01/2016 Abandoned. (DWR Sutter Yard- AFreitag)06/03/2016 Abandoned crossing.04/02/2015 Same as last inspection. Vertical pump on bank not found as bank is not accessible. An abandoned electrical switch found on waterside. Landside distribution box is filled with debris and soil. Crossing appears abandoned and should be verified as having been done so properly. 07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal irrigation pipe through the levee, 18 feet below the crown. Vertical pump on the waterside (WS) bank, not found in 2015. Slide gate in a concrete box on the WS toe. Pipe discharges into a concrete distribution box on the landside (LS) toe. Pole on the WS shoulder and an abandoned electrical switch found on the WS. (36-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9502, 1974 - Coffman; existing 36-inch was allowed to be used during winter months under Permit No. 11540, 1976 - Wilearlee Walnuts). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.22)].
FS Date: 8/5/2019 2:38:00 PM

Photo 2 of 3 : UCIP_FA_2019_55604_47392.jpg

WS view: inside gate riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **18.19** | Rating ** | M | Issue No. | **251 (cont)** |
| LM End | **18.19** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.359983 ° | 39.359983 ° |
| | | | | -122.003732 ° | -122.003732 ° |
| DWR ID | 17343 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17343
FS_ID:55604
EP_NO: 9502
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing remains Non-Urgent, crossing has been abandoned. Owner will need to work with the CVFPB to remove or abandon the crossing per Title 23 requirements. Need to audit this record to confirm ABO issued as permit number 9502 and permit number 11540 are still valid for 36-inch pipe. Unable to confirm if 36-inch pipe has been abandoned properly. Permit records indicate pumping plant and discharge pipe, 36-inch pipe, through the levee was suppose to be abandoned or removed. Per special condition TWENTY: That the abandoned pipe shall be completely filled with grout under pressure within the levee section in accordance with Reclamation Board Standards and TWENTY-ONE: that all appurtenances, other than the 36-inch diameter, at the site of the abandoned pumping plant shall be removed from the levee section. However, permit records (page 6 of 29) dated October 1976 indicate that applicant planned to continue using the existing pump plan and 36-inch discharge line during the winter months. (O. Magana - DWR UCIP)04/20/2017 Abandoned-needs to be done properly. (DWR Sutter Yard- AFreitag)11/01/2016 Abandoned. (DWR Sutter Yard- AFreitag)06/03/2016 Abandoned crossing.04/02/2015 Same as last inspection. Vertical pump on bank not found as bank is not accessible. An abandoned electrical switch found on waterside. Landside distribution box is filled with debris and soil. Crossing appears abandoned and should be verified as having been done so properly. 07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal irrigation pipe through the levee, 18 feet below the crown. Vertical pump on the waterside (WS) bank, not found in 2015. Slide gate in a concrete box on the WS toe. Pipe discharges into a concrete distribution box on the landside (LS) toe. Pole on the WS shoulder and an abandoned electrical switch found on the WS. (36-inch pipe authorized under Automatic Board Order (ABO) issued as Permit No. 9502, 1974 - Coffman; existing 36-inch was allowed to be used during winter months under Permit No. 11540, 1976 - Wilearlee Walnuts). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.22)].
FS Date: 8/5/2019 2:38:00 PM

Photo 3 of 3 : UCIP_FA_2019_55604_47391.jpg

WS view: concrete gate riser

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **18.20** | Rating ** | M | Issue No. | **252** |
| LM End | **18.20** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.359948 ° | 39.359948 ° |
| | | | | -122.003591 ° | -122.003591 ° |
| DWR ID | 17344 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17344
FS_ID:55605
EP_NO: 12930A
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 08/05/2019 Crossing remains Non-Urgent; unable to determine status of line through the levee. Need to contact owner to determine status of crossing. (O. Magana - DWR UCIP)04/20/2017 Unable to locate. (DWR Sutter Yard- AFreitag)11/01/2016 Unable to locate. (DWR Sutter Yard- AFreitag)06/03/2016 Unable to locate.04/02/2015 Unable to locate. Need to contact owner to determine status and location of this crossing.07/02/2014 Unable to locate.12/19/2013 Unable to locate.07/24/2013 Same as last inspection. Unable to locate.
FIELD_STRUCT_DESC: 3.5-inch asphalt coated steel gas pipeline through the levee, 2 feet below the crown. (Permit No. 12930-A, 1980 - Jordan Oil and Gas Co.). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 8/5/2019 2:40:00 PM

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **18.58** | Rating ** | M | Issue No. | **253** |
| LM End | **18.58** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.362456 ° | 39.362456 ° |
| | | | | -121.998199 ° | -121.998199 ° |
| DWR ID | 25451 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:25451
FS_ID:55606
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing has been upgraded from No Action Needed to Non-Urgent, no permit has been found authorizing crossing through the levee. Need to contact owner to determine alignment of line, obtain maintenance records, and obtain permit issued authorizing crossing. (O. Magana - DWR UCIP)04/20/2017 Still unsure if this pipe just follows the road way or crosses through the levee. (DWR Sutter Yard- AFreitag)11/01/2016 Crossing appears to be in good condition. Still unknown if it crosses through the levee. (DWR Sutter Yard- AFreitag)04/14/2016 Unsure if pipe crosses levee.
FIELD_STRUCT_DESC: Natural gas line of unknown depth, diameter, and material, possibly through the levee. Yellow gas line marker found on landside (LS) toe with phone number on marker: 1-866-940-7351 (Wild Goose Storage). See DSID 25452 for fiber optics cable marker adjacent to this marker.
FS Date: 8/5/2019 2:41:00 PM

Photo 1 of 3 : UCIP_FA_2019_55606_75210.jpg

LS toe: yellow gas line marker found.

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **18.58** | Rating ** | M | Issue No. | **253 (cont)** |
| LM End | **18.58** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_55606_75211.jpg

View of waterside (WS) from crown, along alignment with gasline marker.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **18.58** | Rating ** | M | Issue No. | **253 (cont)** |
| LM End | **18.58** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.362456 ° | 39.362456 ° |
| | | | | -121.998199 ° | -121.998199 ° |
| DWR ID | 25451 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:25451
FS_ID:55606
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing has been upgraded from No Action Needed to Non-Urgent, no permit has been found authorizing crossing through the levee. Need to contact owner to determine alignment of line, obtain maintenance records, and obtain permit issued authorizing crossing. (O. Magana - DWR UCIP)04/20/2017 Still unsure if this pipe just follows the road way or crosses through the levee. (DWR Sutter Yard- AFreitag)11/01/2016 Crossing appears to be in good condition. Still unknown if it crosses through the levee. (DWR Sutter Yard- AFreitag)04/14/2016 Unsure if pipe crosses levee.
FIELD_STRUCT_DESC: Natural gas line of unknown depth, diameter, and material, possibly through the levee. Yellow gas line marker found on landside (LS) toe with phone number on marker: 1-866-940-7351 (Wild Goose Storage). See DSID 25452 for fiber optics cable marker adjacent to this marker.
FS Date: 8/5/2019 2:41:00 PM

Photo 3 of 3 : UCIP_FA_2019_55606_75212.jpg

Looking upstream at WS slope from crown.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **18.58** | Rating ** | M | Issue No. | **254** |
| LM End | **18.58** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.362456 ° | 39.362456 ° |
| | | | | -121.998199 ° | -121.998199 ° |
| DWR ID | 25452 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:25452
FS_ID:55607
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing remains Non-Urgent; unable to determine status of line through the levee. Need to contact owner to determine status of crossing. (O. Magana - DWR UCIP)4/20/2017 Still unsure if this pipe follows the roadway or crosses through the levee. (DWR Sutter Yard- AFreitag)11/1/2016 Crossing appears to be in good condition. Still unsure if it crosses through the levee.(DWR Sutter Yard- AFreitag)04/14/2016 Unsure if pipe crosses levee.
FIELD_STRUCT_DESC: Communication line of unknown depth, diameter, and material, possibly through the levee. Red fiber optics cable marker found on landside (LS) toe with phone number on marker: 1-866-940-7351 (Wild Goose Storage). See DSID 25451 for gas line marker adjacent to this marker.
FS Date: 8/5/2019 2:42:00 PM

Photo 1 of 3 : UCIP_FA_2019_55607_75215.jpg

LS toe: red fiber optics cable marker found.

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **18.58** | Rating ** | M | Issue No. | **254 (cont)** |
| LM End | **18.58** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_55607_75216.jpg

View of waterside (WS) from crown, along alignment with fiber optics cable marker.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **18.58** | Rating ** | M | Issue No. | **254 (cont)** |
| LM End | **18.58** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.362456 ° | 39.362456 ° |
| | | | | -121.998199 ° | -121.998199 ° |
| DWR ID | 25452 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:25452
FS_ID:55607
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing remains Non-Urgent; unable to determine status of line through the levee. Need to contact owner to determine status of crossing. (O. Magana - DWR UCIP)4/20/2017 Still unsure if this pipe follows the roadway or crosses through the levee. (DWR Sutter Yard- AFreitag)11/1/2016 Crossing appears to be in good condition. Still unsure if it crosses through the levee.(DWR Sutter Yard- AFreitag)04/14/2016 Unsure if pipe crosses levee. FIELD_STRUCT_DESC: Communication line of unknown depth, diameter, and material, possibly through the levee. Red fiber optics cable marker found on landside (LS) toe with phone number on marker: 1-866-940-7351 (Wild Goose Storage). See DSID 25451 for gas line marker adjacent to this marker.
FS Date: 8/5/2019 2:42:00 PM

Photo 3 of 3 : UCIP_FA_2019_55607_75217.jpg

Looking upstream at WS slope from crown.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **18.61** | Rating ** | M | Issue No. | **255** |
| LM End | **18.61** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.362866 ° | 39.362866 ° |
| | | | | -121.997993 ° | -121.997993 ° |
| DWR ID | 17345 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17345
FS_ID:55610
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing has been upgraded from No Action Needed to Non-Urgent; no permit has been identified for this crossing. Need to contact owner to determine primary use of pipe through the levee. Need to establish who own this crossing. (O. Magana - DWR UCIP)04/20/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/01/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/16/2016 Pipe was internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. Pipe is 155ft in total length and the inspection showed some minor rusting but no holes or other deformations were found. Pipe is still used by the landowner for irrigation and the sloughing near the WS end was repaired and rocked to prevent future sloughing or erosion.04/14/2016 Sloughing repaired by Sutter Yard with rock revetment.04/02/2015 Same as last inspection. Pipe has been selected for internal camera inspection.Sloughing at outlet and levee slope is damaged due to sloughing.07/02/2014 It is not an abandoned crossing. Sloughing at outlet and levee slope is damaged due to sloughing.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 20 feet below the crown. Slide gate at the waterside (WS) toe. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.65)].
FS Date: 8/5/2019 2:43:00 PM

Photo 1 of 3 : UCIP_FA_2019_55610_47399.jpg

WS view: overview of sliding gate structure

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **18.61** | Rating ** | M | Issue No. | **255 (cont)** |
| LM End | **18.61** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.362866 ° | 39.362866 ° |
| | | | | -121.997993 ° | -121.997993 ° |
| DWR ID | 17345 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17345
FS_ID:55610
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing has been upgraded from No Action Needed to Non-Urgent; no permit has been identified for this crossing. Need to contact owner to determine primary use of pipe through the levee. Need to establish who own this crossing. (O. Magana - DWR UCIP)04/20/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/01/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/16/2016 Pipe was internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. Pipe is 155ft in total length and the inspection showed some minor rusting but no holes or other deformations were found. Pipe is still used by the landowner for irrigation and the sloughing near the WS end was repaired and rocked to prevent future sloughing or erosion.04/14/2016 Sloughing repaired by Sutter Yard with rock revetment.04/02/2015 Same as last inspection. Pipe has been selected for internal camera inspection.Sloughing at outlet and levee slope is damaged due to sloughing.07/02/2014 It is not an abandoned crossing. Sloughing at outlet and levee slope is damaged due to sloughing.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 20 feet below the crown. Slide gate at the waterside (WS) toe. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.65)].
FS Date: 8/5/2019 2:43:00 PM

Photo 2 of 3 : UCIP_FA_2019_55610_47398.jpg

WS view: outlet pipe with concrete headwall and floor appron.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **18.61** | Rating ** | M | Issue No. | **255 (cont)** |
| LM End | **18.61** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.362866 ° | 39.362866 ° |
| | | | | -121.997993 ° | -121.997993 ° |
| DWR ID | 17345 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17345
FS_ID:55610
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing has been upgraded from No Action Needed to Non-Urgent; no permit has been identified for this crossing. Need to contact owner to determine primary use of pipe through the levee. Need to establish who own this crossing. (O. Magana - DWR UCIP)04/20/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/01/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/16/2016 Pipe was internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. Pipe is 155ft in total length and the inspection showed some minor rusting but no holes or other deformations were found. Pipe is still used by the landowner for irrigation and the sloughing near the WS end was repaired and rocked to prevent future sloughing or erosion.04/14/2016 Sloughing repaired by Sutter Yard with rock revetment.04/02/2015 Same as last inspection. Pipe has been selected for internal camera inspection.Sloughing at outlet and levee slope is damaged due to sloughing.07/02/2014 It is not an abandoned crossing. Sloughing at outlet and levee slope is damaged due to sloughing.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 20 feet below the crown. Slide gate at the waterside (WS) toe. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.65)].
FS Date: 8/5/2019 2:43:00 PM

Photo 3 of 3 : UCIP_FA_2019_55610_47403.jpg

WS view: sloughing at outlet pipe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **18.70** | Rating ** | M | Issue No. | **256** |
| LM End | **18.70** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.364067 ° | 39.364067 ° |
| | | | | -121.997792 ° | -121.997792 ° |
| DWR ID | 17346 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17346
FS_ID:55611
EP_NO: 9503
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing has been updated from No Action Needed to Non-Urgent, pipe has been modified from original use. An 8-inch pipe has been sleeved through the 24-inch pipe and gap between pipes pressure grouted with cement. Need to audit record to confirm if ABO issued as permit number 9503 authorizes current owner and the modifications made to this crossing are allowed under this ABO. (O. Magana - DWR UCIP)04/20/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/01/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/16/2016 Pipe was internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. 129.5 ft (starting from the WS end) was inspected to get get us through the levee prism but the LS end was never found. Pipe showed no signs of rust or damage.04/14/2016 Inlet structure still filled with soil.04/02/2015 Same as last inspection. Pipe has been selected for internal camera inspection.According to local people, the crossing is functional. The gap between 8-inch and 24-inch pipes is grouted with cement. Inlet structure is filled with soil.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. 8-inch steel pipe sleeved through the 24-inch pipe. Annular space cement grouted. Slide gate at the waterside (WS) toe. Concrete inlet box on the landside (LS). (24-inch pipe [HLM 18.74] authorized under Automatic Board Order (ABO) issued as Permit No. 9503, 1974 - Baird). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.74)].
FS Date: 8/5/2019 2:54:00 PM

Photo 1 of 3 : UCIP_FA_2019_55611_47442.jpg

WS view: overview of slide gate structure

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **18.70** | Rating ** | M | Issue No. | **256 (cont)** |
| LM End | **18.70** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.364067 ° | 39.364067 ° |
| | | | | -121.997792 ° | -121.997792 ° |
| DWR ID | 17346 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17346
FS_ID:55611
EP_NO: 9503
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing has been updated from No Action Needed to Non-Urgent, pipe has been modified from original use. An 8-inch pipe has been sleeved through the 24-inch pipe and gap between pipes pressure grouted with cement. Need to audit record to confirm if ABO issued as permit number 9503 authorizes current owner and the modifications made to this crossing are allowed under this ABO. (O. Magana - DWR UCIP)04/20/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/01/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/16/2016 Pipe was internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. 129.5 ft (starting from the WS end) was inspected to get get us through the levee prism but the LS end was never found. Pipe showed no signs of rust or damage.04/14/2016 Inlet structure still filled with soil.04/02/2015 Same as last inspection. Pipe has been selected for internal camera inspection.According to local people, the crossing is functional. The gap between 8-inch and 24-inch pipes is grouted with cement. Inlet structure is filled with soil.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. 8-inch steel pipe sleeved through the 24-inch pipe. Annular space cement grouted. Slide gate at the waterside (WS) toe. Concrete inlet box on the landside (LS). (24-inch pipe [HLM 18.74] authorized under Automatic Board Order (ABO) issued as Permit No. 9503, 1974 - Baird). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.74)].
FS Date: 8/5/2019 2:54:00 PM

Photo 2 of 3 : UCIP_FA_2019_55611_47441.jpg

WS view: 8-inch pipe inside 24-inch CMP

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **18.70** | Rating ** | M | Issue No. | **256 (cont)** |
| LM End | **18.70** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.364067 ° | 39.364067 ° |
| | | | | -121.997792 ° | -121.997792 ° |
| DWR ID | 17346 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17346
FS_ID:55611
EP_NO: 9503
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing has been updated from No Action Needed to Non-Urgent, pipe has been modified from original use. An 8-inch pipe has been sleeved through the 24-inch pipe and gap between pipes pressure grouted with cement. Need to audit record to confirm if ABO issued as permit number 9503 authorizes current owner and the modifications made to this crossing are allowed under this ABO. (O. Magana - DWR UCIP)04/20/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/01/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)06/16/2016 Pipe was internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. 129.5 ft (starting from the WS end) was inspected to get get us through the levee prism but the LS end was never found. Pipe showed no signs of rust or damage.04/14/2016 Inlet structure still filled with soil.04/02/2015 Same as last inspection. Pipe has been selected for internal camera inspection.According to local people, the crossing is functional. The gap between 8-inch and 24-inch pipes is grouted with cement. Inlet structure is filled with soil.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. 8-inch steel pipe sleeved through the 24-inch pipe. Annular space cement grouted. Slide gate at the waterside (WS) toe. Concrete inlet box on the landside (LS). (24-inch pipe [HLM 18.74] authorized under Automatic Board Order (ABO) issued as Permit No. 9503, 1974 - Baird). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.74)].
FS Date: 8/5/2019 2:54:00 PM

Photo 3 of 3 : UCIP_FA_2019_55611_47440.jpg

WS view: 8-inch pipe and drain gate

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **19.19** | Rating ** | M | Issue No. | **257** |
| LM End | **19.19** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.370031 ° | 39.370031 ° |
| | | | | -121.996458 ° | -121.996458 ° |
| DWR ID | 17347 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17347
FS_ID:55616
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing has been updated from No Action Needed to Non-Urgent due to missing records indicating extent of grout plug through pipe. Only slide gate is visible on the WS. No permit has been identified for this crossing. Need to contact owner to abandon or remove pipe properly according to Title 23 requirements. (O. Magana - DWR UCIP)04/20/2017 Abandoned- plugged. (DWR Sutter Yard- AFreitag)11/01/2016 Abandoned/plugged. (DWR Sutter Yard- AFreitag)06/16/2016 Internal camera inspection was done on 11/19/2015 by Nor-Cal Pipeline Services. Pipe was inspected starting from the WS end and inspected up to the grout plug that is 13.7ft into the pipe. Pipe was then capped and reburied until further abandonment can be achieved.04/02/2015 WS end of pipe was dug up in preparation for internal camera inspection. 07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.12/11/2012 Only steel slide gate structure found on WS. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 21.7 feet below the crown. Slide gate at the waterside (WS) toe. Pipe grouted on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 19.24)].
FS Date: 8/5/2019 3:00:00 PM

Photo 1 of 3 : UCIP_FA_2019_55616_47447.jpg

WS view: overview of abandoned slide gate structure

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **19.19** | Rating ** | M | Issue No. | **257 (cont)** |
| LM End | **19.19** | Issue Type + | Ma | Location * | |

Photo 2 of 3 : UCIP_FA_2019_55616_47446.jpg

LS view: overview (no pipes)

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **19.19** | Rating ** | M | Issue No. | **257 (cont)** |
| LM End | **19.19** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.370031 ° | 39.370031 ° |
| | | | | -121.996458 ° | -121.996458 ° |
| DWR ID | 17347 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17347
FS_ID:55616
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing has been updated from No Action Needed to Non-Urgent due to missing records indicating extent of grout plug through pipe. Only slide gate is visible on the WS. No permit has been identified for this crossing. Need to contact owner to abandon or remove pipe properly according to Title 23 requirements. (O. Magana - DWR UCIP)04/20/2017 Abandoned- plugged. (DWR Sutter Yard- AFreitag)11/01/2016 Abandoned/plugged. (DWR Sutter Yard- AFreitag)06/16/2016 Internal camera inspection was done on 11/19/2015 by Nor-Cal Pipeline Services. Pipe was inspected starting from the WS end and inspected up to the grout plug that is 13.7ft into the pipe. Pipe was then capped and reburied until further abandonment can be achieved.04/02/2015 WS end of pipe was dug up in preparation for internal camera inspection. 07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.12/11/2012 Only steel slide gate structure found on WS. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 21.7 feet below the crown. Slide gate at the waterside (WS) toe. Pipe grouted on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 19.24)].
FS Date: 8/5/2019 3:00:00 PM

Photo 3 of 3 : UCIP_FA_2019_55616_73781.jpg

WS pipe end and screw gate

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **19.55** | Rating ** | U | Issue No. | **258** |
| LM End | **19.55** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.375221 ° | 39.375221 ° |
| | | | | -121.995878 ° | -121.995878 ° |
| DWR ID | 17487 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17487
FS_ID:56037
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing has been upgraded from Non-Urgent to Urgent due to photos taken in 2012 that show deteriorated pipe on the WS. Unable to complete thorough inspection due to dense vegetation on the WS. No permit has been identified authorizing crossing. Crossing has been abandoned, if crossing is no longer used owner will need to coordinate with the CVFPB to remove or abandon according to Title 23 requirements. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)11/01/2016 Abandoned.(DWR Sutter Yard- AFreitag)06/03/2016 Abandoned crossing.04/02/2015 Same as last inspection. 07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.12/11/2012 Slide Gate WS not found. An abandoned pump and steel pipe found on WS. A 6 ft x 8 ft concrete distribution box with a CMP found on LS. Box filled with soil. An abandoned crossing. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, invert 21.7 feet below the crown. Abandoned pump and steel pipe found on the waterside (WS). 6 foot by 8 foot concrete distribution box with the 36-inch corrugated metal pipe found on the landside (LS). [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 19.61)].
FS Date: 8/5/2019 3:07:00 PM

Photo 1 of 3 : UCIP_FA_2019_56037_47449.jpg

WS view: overview

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **19.55** | Rating ** | U | Issue No. | **258 (cont)** |
| LM End | **19.55** | Issue Type + | Ma | Location * | |

Photo 2 of 3 : UCIP_FA_2019_56037_47448.jpg

WS view: abandoned and ruined pipe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **19.55** | Rating ** | U | Issue No. | **258 (cont)** |
| LM End | **19.55** | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP LMA Responsibility | | | 39.375221 ° | 39.375221 ° |
| | | | | -121.995878 ° | -121.995878 ° |
| DWR ID | 17487 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17487
FS_ID:56037
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing has been upgraded from Non-Urgent to Urgent due to photos taken in 2012 that show deteriorated pipe on the WS. Unable to complete thorough inspection due to dense vegetation on the WS. No permit has been identified authorizing crossing. Crossing has been abandoned, if crossing is no longer used owner will need to coordinate with the CVFPB to remove or abandon according to Title 23 requirements. (O. Magana - DWR UCIP)04/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)11/01/2016 Abandoned.(DWR Sutter Yard- AFreitag)06/03/2016 Abandoned crossing.04/02/2015 Same as last inspection. 07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.12/11/2012 Slide Gate WS not found. An abandoned pump and steel pipe found on WS. A 6 ft x 8 ft concrete distribution box with a CMP found on LS. Box filled with soil. An abandoned crossing. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, invert 21.7 feet below the crown. Abandoned pump and steel pipe found on the waterside (WS). 6 foot by 8 foot concrete distribution box with the 36-inch corrugated metal pipe found on the landside (LS). [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 19.61)].
FS Date: 8/5/2019 3:07:00 PM

Photo 3 of 3 : UCIP_FA_2019_56037_47453.jpg

WS view: abandoned and ruined pipe

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **19.97** | Rating ** | M | Issue No. | **259** |
| LM End | **19.97** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.380501 ° | 39.380501 ° |
| | | | | -121.993546 ° | -121.993546 ° |
| DWR ID | 17370 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17370
FS_ID:55621
EP_NO: 9496
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing remains Non-Urgent, pipe has been abandoned. Need to audit this record to confirm ABO issued as permit number 9496 is still valid for current structure. Limited access on the WS. If crossing is no longer in use, owner will need to coordinate with the CVFPB to remove or abandon crossing according to Title 23 requirements. (O. Magana - DWR UCIP)04/20/2017 Abandoned-needs to be done properly. (DWR Sutter Yard- AFreitag)11/01/2016 Abandoned. (DWR Sutter Yard- AFreitag)06/03/2016 Abandoned crossing04/02/2015 Same as last inspection. Only one pump found on WS. An abandoned surge box found on WS and pipe is grouted with cement. Two 16-inch steel pipe found on pump station along with two electrical conduits. A concrete distribution box found on LS with 20-inch CMP. Appears abandoned crossing.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 20-inch corrugated metal irrigation pipe through the levee, 19.8 feet below the crown. (Not 24-inch pipe, as stated in the O&M Manual, Automatic Board Order, and Levee Log). Two vertical pumps on a pile structure on the waterside (WS) bank (one pump found in 2015). Slide gate in a concrete surge box on the waterside (WS) berm. Discharges into a concrete distribution box on the landside (LS) across the county road. Switch board on the platform on the WS bank. (Automatic Board Order (ABO) issued as Permit No. 9496, 1974 - Womble). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 20.05)].
FS Date: 8/5/2019 3:12:00 PM

Photo 1 of 3 : UCIP_FA_2019_55621_47459.jpg

WS view: overview

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **19.97** | Rating ** | M | Issue No. | **259 (cont)** |
| LM End | **19.97** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.380501 ° | 39.380501 ° |
| | | | | -121.993546 ° | -121.993546 ° |
| DWR ID | 17370 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17370
FS_ID:55621
EP_NO: 9496
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing remains Non-Urgent, pipe has been abandoned. Need to audit this record to confirm ABO issued as permit number 9496 is still valid for current structure. Limited access on the WS. If crossing is no longer in use, owner will need to coordinate with the CVFPB to remove or abandon crossing according to Title 23 requirements. (O. Magana - DWR UCIP)04/20/2017 Abandoned-needs to be done properly. (DWR Sutter Yard- AFreitag)11/01/2016 Abandoned. (DWR Sutter Yard- AFreitag)06/03/2016 Abandoned crossing04/02/2015 Same as last inspection. Only one pump found on WS. An abandoned surge box found on WS and pipe is grouted with cement. Two 16-inch steel pipe found on pump station along with two electrical conduits. A concrete distribution box found on LS with 20-inch CMP. Appears abandoned crossing.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 20-inch corrugated metal irrigation pipe through the levee, 19.8 feet below the crown. (Not 24-inch pipe, as stated in the O&M Manual, Automatic Board Order, and Levee Log). Two vertical pumps on a pile structure on the waterside (WS) bank (one pump found in 2015). Slide gate in a concrete surge box on the waterside (WS) berm. Discharges into a concrete distribution box on the landside (LS) across the county road. Switch board on the platform on the WS bank. (Automatic Board Order (ABO) issued as Permit No. 9496, 1974 - Womble). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 20.05)].
FS Date: 8/5/2019 3:12:00 PM

Photo 2 of 3 : UCIP_FA_2019_55621_47457.jpg

WS view: gate riser with slide gate

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 01 Sacramento River | Left | 19.85 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **19.97** | Rating ** | M | Issue No. | **259 (cont)** |
| LM End | **19.97** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.380501 ° | 39.380501 ° |
| | | | | -121.993546 ° | -121.993546 ° |
| DWR ID | 17370 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17370
FS_ID:55621
EP_NO: 9496
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/05/2019 Crossing remains Non-Urgent, pipe has been abandoned. Need to audit this record to confirm ABO issued as permit number 9496 is still valid for current structure. Limited access on the WS. If crossing is no longer in use, owner will need to coordinate with the CVFPB to remove or abandon crossing according to Title 23 requirements. (O. Magana - DWR UCIP)04/20/2017 Abandoned-needs to be done properly. (DWR Sutter Yard- AFreitag)11/01/2016 Abandoned. (DWR Sutter Yard- AFreitag)06/03/2016 Abandoned crossing04/02/2015 Same as last inspection. Only one pump found on WS. An abandoned surge box found on WS and pipe is grouted with cement. Two 16-inch steel pipe found on pump station along with two electrical conduits. A concrete distribution box found on LS with 20-inch CMP. Appears abandoned crossing.07/02/2014 Same as last inspection.12/19/2013 Same as last inspection.07/24/2013 Same as last inspection.
FIELD_STRUCT_DESC: *ABANDONED* 20-inch corrugated metal irrigation pipe through the levee, 19.8 feet below the crown. (Not 24-inch pipe, as stated in the O&M Manual, Automatic Board Order, and Levee Log). Two vertical pumps on a pile structure on the waterside (WS) bank (one pump found in 2015). Slide gate in a concrete surge box on the waterside (WS) berm. Discharges into a concrete distribution box on the landside (LS) across the county road. Switch board on the platform on the WS bank. (Automatic Board Order (ABO) issued as Permit No. 9496, 1974 - Womble). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 20.05)].
FS Date: 8/5/2019 3:12:00 PM

Photo 3 of 3 : UCIP_FA_2019_55621_47456.jpg

WS view: abandoned pipe with cement grouting

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Unit Cover Sheet

**Fall 2019 Levee Inspection Results**

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles |
|---|---|---|
| Unit No. 02 Colusa Bypass | Right | 2.20 |

| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
|---|---|---|---|---|
| Unit Maintenance Rating (Fall Only) | | | **A** | |
| Date of Inspection | 4/16/2019 - 4/16/2019 | | 10/15/2019 - 10/15/2019 | |
| DWR Inspector | Makar Sokol | | Makar Sokol | |
| Accompanied By | Bryan Reniff<br>Sutter Maintenance Yard | | Lincoln Carey<br>Sutter Maintenance Yard | |

**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

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 02 Colusa Bypass | Right | 2.20 | 10/15/2019<br>10/15/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.02** | Rating ** | M | Issue No. | **1** |
| LM End | **0.02** | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.232058 ° | 39.232058 ° |
| | | | | -121.995514 ° | -121.995514 ° |
| DWR ID | DWR_ST0003_02_s _ 2012_1 | | | | |

Comment Code

V4 : Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.45** | Rating ** | M | Issue No. | **6** |
| LM End | **0.49** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.231407 ° | 39.231410 ° |
| | | | | -121.987615 ° | -121.986825 ° |
| DWR ID | DWR_ST0003_02_f _ 2019_6 | | | | |

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 02 Colusa Bypass | Right | 2.20 | 10/15/2019<br>10/15/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.87** | Rating ** | M | Issue No. | **8** |
| LM End | **0.87** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.231434 ° | 39.231434 ° |
| | | | | -121.979891 ° | -121.979891 ° |
| DWR ID | 17532 | | | | |

**Comment Code**

**Inspector Comment**

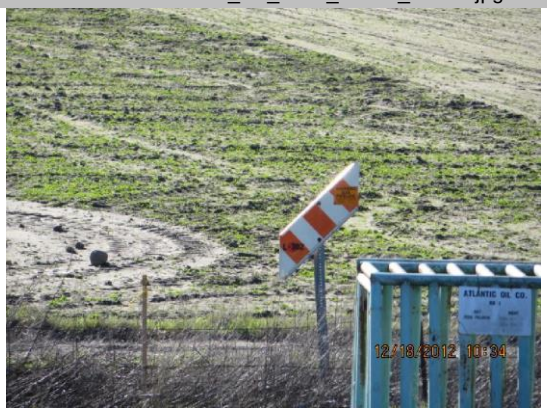
DS_ID:17532
FS_ID:55624
EP_NO: 15821
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing has been updated from No Action Needed to Non-Urgent; need maintenance records to determine current status of line. Recommend auditing this record to confirm authorized lines through the levee and appurtenances associated with line. (O. Magana - DWR UCIP)06/03/2016 Crossing appears to be in good condition.04/06/2015 Same as last inspection.07/07/2014 Same as last inspection.12/19/2013 Same as last inspection.07/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 1 of 3. 4-inch natural gas pipeline under both levees. 12-inch distance between the pipes and two inches on either side of the trench. A gas line marker found on the landside (LS) for all 3 gas lines. (Permit No. 15821, 1991 - Phoenix Oil & Gas).
FS Date: 8/5/2019 3:18:00 PM

Photo 1 of 3 : UCIP_FA_2019_55624_47476.jpg

LS view: overview

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.87** | Rating ** | M | Issue No. | **8 (cont)** |
| LM End | **0.87** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_55624_47475.jpg




LS view: gasline indicator about 100 ft away from the levee.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 02 Colusa Bypass | Right | 2.20 | 10/15/2019<br>10/15/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.87** | Rating ** | M | Issue No. | **8 (cont)** |
| LM End | **0.87** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.231434 ° | 39.231434 ° |
| | | | | -121.979891 ° | -121.979891 ° |
| DWR ID | 17532 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17532
FS_ID:55624
EP_NO: 15821
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing has been updated from No Action Needed to Non-Urgent; need maintenance records to determine current status of line. Recommend auditing this record to confirm authorized lines through the levee and appurtenances associated with line. (O. Magana - DWR UCIP)06/03/2016 Crossing appears to be in good condition.04/06/2015 Same as last inspection.07/07/2014 Same as last inspection.12/19/2013 Same as last inspection.07/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 1 of 3. 4-inch natural gas pipeline under both levees. 12-inch distance between the pipes and two inches on either side of the trench. A gas line marker found on the landside (LS) for all 3 gas lines. (Permit No. 15821, 1991 - Phoenix Oil & Gas).
FS Date: 8/5/2019 3:18:00 PM

Photo 3 of 3 : UCIP_FA_2019_55624_47474.jpg

LS view: gasline indicator

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 02 Colusa Bypass | Right | 2.20 | 10/15/2019<br>10/15/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.87** | Rating ** | M | Issue No. | **9** |
| LM End | **0.87** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.231434 ° | 39.231434 ° |
| | | | | -121.979891 ° | -121.979891 ° |
| DWR ID | 17536 | | | | |

**Comment Code**

**Inspector Comment**

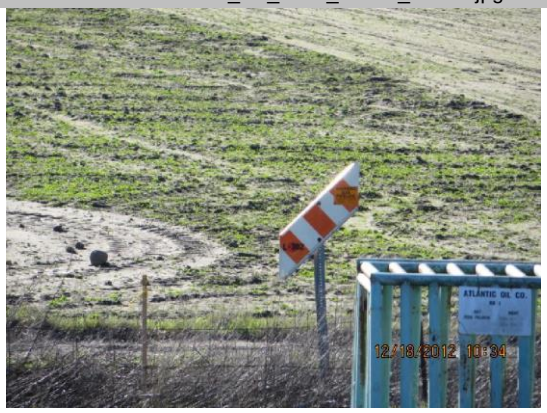
DS_ID:17536
FS_ID:55625
EP_NO: 15821
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing has been updated from No Action Needed to Non-Urgent; need maintenance records to determine current status of line. Recommend auditing this record to confirm authorized lines through the levee and appurtenances associated with line. (O. Magana - DWR UCIP)06/03/2016 Crossing appears to be in good condition.04/06/2015 Same as last inspection.07/07/2014 Same as last inspection.12/19/2013 Same as last inspection.07/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 2 of 3. 4-inch natural gas pipeline under both levees. 12-inch distance between the pipes and two inches on either side of the trench. A gas line marker found on the landside (LS) for all 3 gas lines. (Permit No. 15821, 1991 - Phoenix Oil & Gas).
FS Date: 8/5/2019 3:19:00 PM

Photo 1 of 3 : UCIP_FA_2019_55625_47468.jpg

LS view: overview

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.87** | Rating ** | M | Issue No. | **9 (cont)** |
| LM End | **0.87** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_55625_47467.jpg




LS view: gasline indicator about 100 ft away

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 02 Colusa Bypass | Right | 2.20 | 10/15/2019<br>10/15/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.87** | Rating ** | M | Issue No. | **9 (cont)** |
| LM End | **0.87** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.231434 ° | 39.231434 ° |
| | | | | -121.979891 ° | -121.979891 ° |
| DWR ID | 17536 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17536
FS_ID:55625
EP_NO: 15821
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing has been updated from No Action Needed to Non-Urgent; need maintenance records to determine current status of line. Recommend auditing this record to confirm authorized lines through the levee and appurtenances associated with line. (O. Magana - DWR UCIP)06/03/2016 Crossing appears to be in good condition.04/06/2015 Same as last inspection.07/07/2014 Same as last inspection.12/19/2013 Same as last inspection.07/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 2 of 3. 4-inch natural gas pipeline under both levees. 12-inch distance between the pipes and two inches on either side of the trench. A gas line marker found on the landside (LS) for all 3 gas lines. (Permit No. 15821, 1991 - Phoenix Oil & Gas).
FS Date: 8/5/2019 3:19:00 PM

Photo 3 of 3 : UCIP_FA_2019_55625_47466.jpg

LS view: gasline indicator

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 02 Colusa Bypass | Right | 2.20 | 10/15/2019<br>10/15/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.87** | Rating ** | M | Issue No. | **10** |
| LM End | **0.87** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.231434 ° | 39.231434 ° |
| | | | | -121.979891 ° | -121.979891 ° |
| DWR ID | 17537 | | | | |

**Comment Code**

**Inspector Comment**

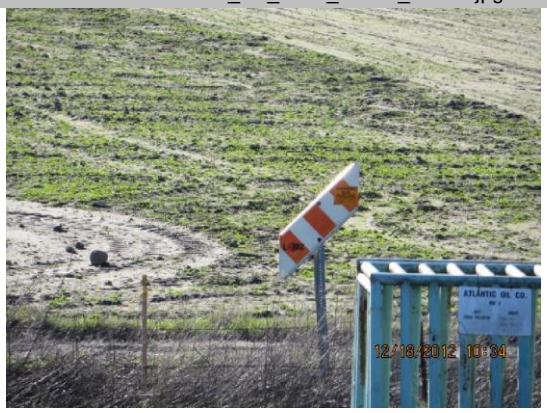
DS_ID:17537
FS_ID:55626
EP_NO: 15821
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing has been updated from No Action Needed to Non-Urgent; need maintenance records to determine current status of line. Recommend auditing this record to confirm authorized lines through the levee and appurtenances associated with line. (O. Magana - DWR UCIP)06/03/2016 Crossing appears to be in good condition.04/06/2015 Same as last inspection.07/07/2014 Same as last inspection.12/19/2013 Same as last inspection.07/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 3 of 3. 4-inch natural gas pipeline under both levees. 12-inch distance between the pipes and two inches on either side of the trench. A gas line marker found on the landside (LS) for all 3 gas lines. (Permit No. 15821, 1991 - Phoenix Oil & Gas).
FS Date: 8/5/2019 3:20:00 PM

Photo 1 of 3 : UCIP_FA_2019_55626_47472.jpg

LS view: overview

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.87** | Rating ** | M | Issue No. | **10 (cont)** |
| LM End | **0.87** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_55626_47471.jpg




LS view: gasline indicator about 100 ft away from the levee

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 02 Colusa Bypass | Right | 2.20 | 10/15/2019<br>10/15/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.87** | Rating ** | M | Issue No. | **10 (cont)** |
| LM End | **0.87** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.231434 ° | 39.231434 ° |
| | | | | -121.979891 ° | -121.979891 ° |
| DWR ID | 17537 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17537
FS_ID:55626
EP_NO: 15821
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing has been updated from No Action Needed to Non-Urgent; need maintenance records to determine current status of line. Recommend auditing this record to confirm authorized lines through the levee and appurtenances associated with line. (O. Magana - DWR UCIP)06/03/2016 Crossing appears to be in good condition.04/06/2015 Same as last inspection.07/07/2014 Same as last inspection.12/19/2013 Same as last inspection.07/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 3 of 3. 4-inch natural gas pipeline under both levees. 12-inch distance between the pipes and two inches on either side of the trench. A gas line marker found on the landside (LS) for all 3 gas lines. (Permit No. 15821, 1991 - Phoenix Oil & Gas).
FS Date: 8/5/2019 3:20:00 PM

Photo 3 of 3 : UCIP_FA_2019_55626_47470.jpg

LS view: gasline indicator

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 02 Colusa Bypass | Right | 2.20 | 10/15/2019<br>10/15/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.20** | Rating ** | M | Issue No. | **11** |
| LM End | **1.20** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.229526 ° | 39.229526 ° |
| | | | | -121.975686 ° | -121.975686 ° |
| DWR ID | 17531 | | | | |

Comment Code

Inspector Comment

DS_ID:17531
FS_ID:55627
EP_NO: 13534
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing remains Non-Urgent due to limited access to line; need maintenance records to determine current status of line. (O. Magana - DWR UCIP)06/03/2016 Crossing appears to be in good condition.04/06/2015 Same as last inspection. May need to add more substantial gas line markers.07/07/2014 Same as last inspection.12/19/2013 Same as last inspection.07/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 2.5-inch asphalt coated steel gas pipeline through the levee, 2.5 feet below the crown. A gas line marker found on the landside (LS). (Permit No. 13534, 1982 - Texaco, Incorporated). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 8/5/2019 3:23:00 PM

Photo 1 of 3 : UCIP_FA_2019_55627_47480.jpg

LS view: overview gasline indicator

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.20** | Rating ** | M | Issue No. | **11 (cont)** |
| LM End | **1.20** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_55627_47479.jpg

LS view: overview gasline indicator

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 02 Colusa Bypass | Right | 2.20 | 10/15/2019<br>10/15/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.20** | Rating ** | M | Issue No. | **11 (cont)** |
| LM End | **1.20** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.229526 ° | 39.229526 ° |
| | | | | -121.975686 ° | -121.975686 ° |
| DWR ID | 17531 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17531
FS_ID:55627
EP_NO: 13534
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing remains Non-Urgent due to limited access to line; need maintenance records to determine current status of line. (O. Magana - DWR UCIP)06/03/2016 Crossing appears to be in good condition.04/06/2015 Same as last inspection. May need to add more substantial gas line markers.07/07/2014 Same as last inspection.12/19/2013 Same as last inspection.07/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 2.5-inch asphalt coated steel gas pipeline through the levee, 2.5 feet below the crown. A gas line marker found on the landside (LS). (Permit No. 13534, 1982 - Texaco, Incorporated). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 8/5/2019 3:23:00 PM

Photo 3 of 3 : UCIP_FA_2019_55627_47478.jpg

LS view: gasline indicator

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **2.04** | Rating ** | M | Issue No. | **7** |
| LM End | **2.19** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.227859 ° | 39.227809 ° |
| | | | | -121.961817 ° | -121.959050 ° |
| DWR ID | DWR_ST0003_02_f _ 2019_7 | | | | |

**Comment Code**

V1 : Control annual grass and weeds on the levee slopes and easements.

**Inspector Comment**

Photo 1 of 1 : FA_2019_ST0003_265_7_20191017_00013.jpg

View of the vegetation along the waterside slope. Fall 2019.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Unit Cover Sheet

**Fall 2019 Levee Inspection Results**

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles |
|---|---|---|
| Unit No. 03 Colusa Bypass | Left | 2.29 |

| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
|---|---|---|---|---|
| Unit Maintenance Rating (Fall Only) | | | **M** | |
| Date of Inspection | 4/16/2019 - 4/16/2019 | | 10/15/2019 - 10/15/2019 | |
| DWR Inspector | Makar Sokol | | Makar Sokol | |
| Accompanied By | Bryan Reniff<br>Sutter Maintenance Yard | | Lincoln Carey<br>Sutter Maintenance Yard | |

**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

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 03 Colusa Bypass | Left | 2.29 | 10/15/2019<br>10/15/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.20** | Rating ** | C | Issue No. | **3** |
| LM End | **0.20** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 39.236171 ° | 39.236171 ° |
| | | | | -121.990472 ° | -121.990472 ° |
| DWR ID | DWR_ST0003_03_s _ 2019_3 | | | | |

**Comment Code**

E2 : Schedule repair of erosion site prior to the next inspection.

**Inspector Comment**

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.64** | Rating ** | M | Issue No. | **7** |
| LM End | **0.68** | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.237529 ° | 39.237688 ° |
| | | | | -121.982536 ° | -121.981826 ° |
| DWR ID | DWR_ST0003_03_f _ 2019_7 | | | | |

**Comment Code**

V1 : Control annual grass and weeds on the levee slopes and easements.

**Inspector Comment**

Photo 1 of 1 : FA_2019_ST0003_266_7_20191025_00008.jpg

View of the vegetation along the landside slope. Fall 2019.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 03 Colusa Bypass | Left | 2.29 | 10/15/2019<br>10/15/2019 | Makar<br>Sokol |

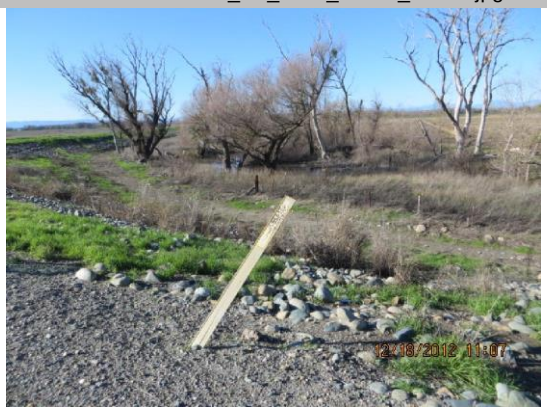
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.03** | Rating ** | M | Issue No. | **11** |
| LM End | **1.03** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.239306 ° | 39.239306 ° |
| | | | | -121.975797 ° | -121.975797 ° |
| DWR ID | 17556 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17556
FS_ID:55628
EP_NO: 15821
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing has been updated from No Action Needed to Non-Urgent; need maintenance records to determine current status of line. (O. Magana - DWR UCIP)06/03/2016 Crossing appears to be in good condition.04/06/2015 Same as last inspection. May need to add additional gas line markers.07/07/2014 Same as last inspection.12/19/2013 Same as last inspection.07/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 1 of 3. 4-inch natural gas pipeline under both levees. 12-inch distance between the pipes and two inches on either side of the trench. A gas line marker found on the landside (LS) for all 3 gas lines. (Permit No. 15821, 1991 - Phoenix Oil & Gas).
FS Date: 8/5/2019 3:26:00 PM

Photo 1 of 3 : UCIP_FA_2019_55628_47482.jpg




LS view: gasline indicator

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.03** | Rating ** | M | Issue No. | **11 (cont)** |
| LM End | **1.03** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_55628_47481.jpg

LS view: gasline indicator close view

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 03 Colusa Bypass | Left | 2.29 | 10/15/2019<br>10/15/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.03** | Rating ** | M | Issue No. | **11 (cont)** |
| LM End | **1.03** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.239306 ° | 39.239306 ° |
| | | | | -121.975797 ° | -121.975797 ° |
| DWR ID | 17556 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17556
FS_ID:55628
EP_NO: 15821
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing has been updated from No Action Needed to Non-Urgent; need maintenance records to determine current status of line. (O. Magana - DWR UCIP)06/03/2016 Crossing appears to be in good condition.04/06/2015 Same as last inspection. May need to add additional gas line markers.07/07/2014 Same as last inspection.12/19/2013 Same as last inspection.07/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 1 of 3. 4-inch natural gas pipeline under both levees. 12-inch distance between the pipes and two inches on either side of the trench. A gas line marker found on the landside (LS) for all 3 gas lines. (Permit No. 15821, 1991 - Phoenix Oil & Gas).
FS Date: 8/5/2019 3:26:00 PM

Photo 3 of 3 : UCIP_FA_2019_55628_82213.jpg

Overview of levee crown looking d/s towards pipe crossing.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 03 Colusa Bypass | Left | 2.29 | 10/15/2019<br>10/15/2019 | Makar<br>Sokol |

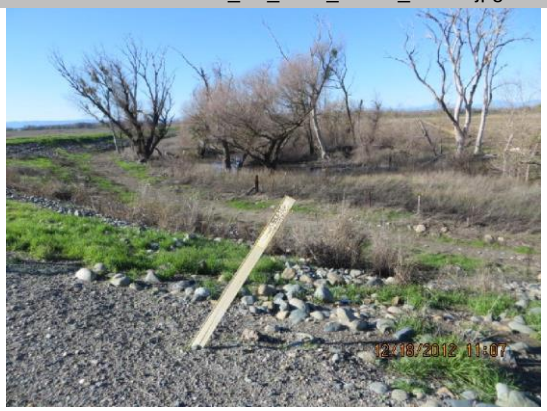
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.03** | Rating ** | M | Issue No. | **12** |
| LM End | **1.03** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.239306 ° | 39.239306 ° |
| | | | | -121.975797 ° | -121.975797 ° |
| DWR ID | 17557 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17557
FS_ID:55629
EP_NO: 15821
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing has been updated from No Action Needed to Non-Urgent; need maintenance records to determine current status of line. (O. Magana - DWR UCIP)06/03/2016 Crossing appears to be in good condition.04/06/2015 Same as last inspection. May need to add additional gas line markers.07/07/2014 Same as last inspection.12/19/2013 Same as last inspection.07/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 2 of 3. 4-inch natural gas pipeline under both levees. 12-inch distance between the pipes and two inches on either side of the trench. A gas line marker found on the landside (LS) for all 3 gas lines. (Permit No. 15821, 1991 - Phoenix Oil & Gas).
FS Date: 8/5/2019 3:27:00 PM

Photo 1 of 3 : UCIP_FA_2019_55629_47484.jpg




LS view: gasline indicator

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.03** | Rating ** | M | Issue No. | **12 (cont)** |
| LM End | **1.03** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_55629_47483.jpg

LS view: gasline indicator close view

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 03 Colusa Bypass | Left | 2.29 | 10/15/2019<br>10/15/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.03** | Rating ** | M | Issue No. | **12 (cont)** |
| LM End | **1.03** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.239306 ° | 39.239306 ° |
| | | | | -121.975797 ° | -121.975797 ° |
| DWR ID | 17557 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17557
FS_ID:55629
EP_NO: 15821
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing has been updated from No Action Needed to Non-Urgent; need maintenance records to determine current status of line. (O. Magana - DWR UCIP)06/03/2016 Crossing appears to be in good condition.04/06/2015 Same as last inspection. May need to add additional gas line markers.07/07/2014 Same as last inspection.12/19/2013 Same as last inspection.07/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 2 of 3. 4-inch natural gas pipeline under both levees. 12-inch distance between the pipes and two inches on either side of the trench. A gas line marker found on the landside (LS) for all 3 gas lines. (Permit No. 15821, 1991 - Phoenix Oil & Gas).
FS Date: 8/5/2019 3:27:00 PM

Photo 3 of 3 : UCIP_FA_2019_55629_82217.jpg

Overview of levee crown looking d/s towards pipe crossing.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 03 Colusa Bypass | Left | 2.29 | 10/15/2019<br>10/15/2019 | Makar<br>Sokol |

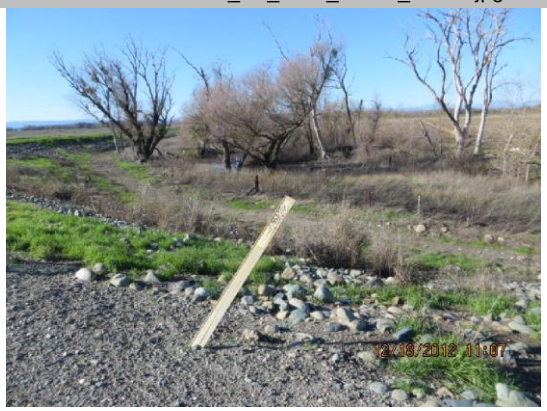
| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.03** | Rating ** | M | Issue No. | **13** |
| LM End | **1.03** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.239306 ° | 39.239306 ° |
| | | | | -121.975797 ° | -121.975797 ° |
| DWR ID | 17558 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17558
FS_ID:55630
EP_NO: 15821
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing has been updated from No Action Needed to Non-Urgent; need maintenance records to determine current status of line. (O. Magana - DWR UCIP)06/03/2016 Crossing appears to be in good condition.04/06/2015 Same as last inspection. May need to add additional gas line markers.07/07/2014 Same as last inspection.12/19/2013 Same as last inspection.07/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 3 of 3. 4-inch natural gas pipeline under both levees. 12-inch distance between the pipes and two inches on either side of the trench. A gas line marker found on the landside (LS) for all 3 gas lines. (Permit No. 15821, 1991 - Phoenix Oil & Gas).
FS Date: 8/5/2019 3:29:00 PM

Photo 1 of 3 : UCIP_FA_2019_55630_47486.jpg




LS view: gasline indicator

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.03** | Rating ** | M | Issue No. | **13 (cont)** |
| LM End | **1.03** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_55630_47485.jpg

LS view: gasline indicator close look

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 03 Colusa Bypass | Left | 2.29 | 10/15/2019<br>10/15/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.03** | Rating ** | M | Issue No. | **13 (cont)** |
| LM End | **1.03** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.239306 ° | 39.239306 ° |
| | | | | -121.975797 ° | -121.975797 ° |
| DWR ID | 17558 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17558
FS_ID:55630
EP_NO: 15821
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing has been updated from No Action Needed to Non-Urgent; need maintenance records to determine current status of line. (O. Magana - DWR UCIP)06/03/2016 Crossing appears to be in good condition.04/06/2015 Same as last inspection. May need to add additional gas line markers.07/07/2014 Same as last inspection.12/19/2013 Same as last inspection.07/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 3 of 3. 4-inch natural gas pipeline under both levees. 12-inch distance between the pipes and two inches on either side of the trench. A gas line marker found on the landside (LS) for all 3 gas lines. (Permit No. 15821, 1991 - Phoenix Oil & Gas).
FS Date: 8/5/2019 3:29:00 PM

Photo 3 of 3 : UCIP_FA_2019_55630_82221.jpg

Overview of levee crown looking d/s towards pipe crossing.

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.84** | Rating ** | M | Issue No. | **8** |
| LM End | **1.90** | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.244886 ° | 39.244883 ° |
| | | | | -121.967463 ° | -121.966342 ° |
| DWR ID | DWR_ST0003_03_f _ 2019_8 | | | | |

**Comment Code**

V1 : Control annual grass and weeds on the levee slopes and easements.

**Inspector Comment**

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 03 Colusa Bypass | Left | 2.29 | 10/15/2019<br>10/15/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.94** | Rating ** | M | Issue No. | **10** |
| LM End | **1.94** | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.244888 ° | 39.244888 ° |
| | | | | -121.965595 ° | -121.965595 ° |
| DWR ID | DWR_ST0003_03_s _ 2012_10 | | | | |

Comment Code

V4 : Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **2.03** | Rating ** | M | Issue No. | **9** |
| LM End | **2.28** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.244882 ° | 39.244901 ° |
| | | | | -121.963830 ° | -121.959194 ° |
| DWR ID | DWR_ST0003_03_f _ 2019_9 | | | | |

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **2.13** | Rating ** | M | Issue No. | **2** |
| LM End | **2.13** | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.244925 ° | 39.244925 ° |
| | | | | -121.962072 ° | -121.962072 ° |
| DWR ID | DWR_ST0003_03_s _ 2015_2 | | | | |

Comment Code

V4 : Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 03 Colusa Bypass | Left | 2.29 | 10/15/2019<br>10/15/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **2.22** | Rating ** | M | Issue No. | **1** |
| LM End | **2.22** | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.244908 ° | 39.244908 ° |
| | | | | -121.960285 ° | -121.960285 ° |
| DWR ID | DWR_ST0003_03_s _ 2019_1 | | | | |

**Comment Code**

V2 : Remove the wild growth other than native grasses from the levee slopes.

**Inspector Comment**

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Unit Cover Sheet

**Fall 2019 Levee Inspection Results**

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles |
|---|---|---|
| Unit No. 04 Moulton Bypass | Right | 0.30 |

| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
|---|---|---|---|---|
| Unit Maintenance Rating (Fall Only) | | | **A** | |
| Date of Inspection | 4/16/2019 - 4/16/2019 | | 10/16/2019 - 10/16/2019 | |
| DWR Inspector | Makar Sokol | | Makar Sokol | |
| Accompanied By | Bryan Reniff<br>Sutter Maintenance Yard | | Lincoln Carey<br>Sutter Maintenance Yard | |

**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

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 04 Moulton Bypass | Right | 0.30 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.13** | Rating ** | A | Issue No. | **2** |
| LM End | **0.13** | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.337541 ° | 39.337541 ° |
| | | | | -122.019807 ° | -122.019807 ° |
| DWR ID | DWR_ST0003_04_f _ 2019_2 | | | | |

**Comment Code**

V1 : Control annual grass and weeds on the levee slopes and easements.

**Inspector Comment**

Both landside and waterside slopes are well-maintained and free of vegetation.

Photo 1 of 1 : FA_2019_ST0003_267_2_20191017_00003.jpg

View of the well-maintained landside levee slope, free of vegetation. Fall 2019.

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.21** | Rating ** | M | Issue No. | **3** |
| LM End | **0.21** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.336886 ° | 39.336886 ° |
| | | | | -122.018634 ° | -122.018634 ° |
| DWR ID | 17559 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17559
FS_ID:55631
EP_NO: 2638
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/01/2019 Crossing has been updated from No Action Needed to Non-Urgent; need maintenance records to determine current status of line. (O. Magana - DWR UCIP)06/03/2016 Crossing appears to be in good condition.04/06/2015 Same as last inspection.07/07/2014 Same as last inspection.12/19/2013 Same as last inspection.07/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 4.5-inch asphalt coated steel gas pipeline through the levee, 3.0 feet below the crown. Gas line marker on the landside (LS). (Permit No. 2638, 1957 - Pacific Gas and Electric Company). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 8/1/2019 1:56:00 PM

Photo 1 of 3 : UCIP_FA_2019_55631_47487.jpg

LS view: overview gasline indicator

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 04 Moulton Bypass | Right | 0.30 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.21** | Rating ** | M | Issue No. | **3 (cont)** |
| LM End | **0.21** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.336886 ° | 39.336886 ° |
| | | | | -122.018634 ° | -122.018634 ° |
| DWR ID | 17559 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17559
FS_ID:55631
EP_NO: 2638
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/01/2019 Crossing has been updated from No Action Needed to Non-Urgent; need maintenance records to determine current status of line. (O. Magana - DWR UCIP)06/03/2016 Crossing appears to be in good condition.04/06/2015 Same as last inspection.07/07/2014 Same as last inspection.12/19/2013 Same as last inspection.07/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 4.5-inch asphalt coated steel gas pipeline through the levee, 3.0 feet below the crown. Gas line marker on the landside (LS). (Permit No. 2638, 1957 - Pacific Gas and Electric Company). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 8/1/2019 1:56:00 PM

Photo 2 of 3 : UCIP_FA_2019_55631_47488.jpg

LS view: gasline indicator

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.21** | Rating ** | M | Issue No. | **3 (cont)** |
| LM End | **0.21** | Issue Type + | En | Location * | |

Photo 3 of 3 : UCIP_FA_2019_55631_82225.jpg

LS view: overview of LS slope.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Unit Cover Sheet

**Fall 2019 Levee Inspection Results**

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles |
|---|---|---|
| Unit No. 05 Moulton Bypass | Left | 2.19 |

| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
|---|---|---|---|---|
| Unit Maintenance Rating (Fall Only) | | | **A** | |
| Date of Inspection | 4/16/2019 - 4/16/2019 | | 10/16/2019 - 10/16/2019 | |
| DWR Inspector | Makar Sokol | | Makar Sokol | |
| Accompanied By | Bryan Reniff<br>Sutter Maintenance Yard | | Lincoln Carey<br>Sutter Maintenance Yard | |

**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

# Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 05 Moulton Bypass | Left | 2.19 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.03** | Rating ** | A | Issue No. | **8** |
| LM End | **0.03** | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.346965 ° | 39.346965 ° |
| | | | | -122.015607 ° | -122.015607 ° |
| DWR ID | DWR_ST0003_05_f _ 2019_8 | | | | |

**Comment Code**

V1 : Control annual grass and weeds on the levee slopes and easements.

**Inspector Comment**

Both landside and waterside slopes are well-maintained and free of vegetation.

Photo 1 of 1 : FA_2019_ST0003_268_8_20191017_00004.jpg

View of the well-maintained landside levee slopes, free of vegetation. Fall 2019.

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.71** | Rating ** | M | Issue No. | **5** |
| LM End | **0.71** | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.341167 ° | 39.341167 ° |
| | | | | -122.010412 ° | -122.010412 ° |
| DWR ID | DWR_ST0003_05_s _ 2018_5 | | | | |

**Comment Code**

PR : Prunings

**Inspector Comment**

Remove the prunings from the waterside toe.

Photo 1 of 1 : FA_2019_ST0003_268_5_20190822_00002.jpg

View of the prunings along the waterside toe.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 05 Moulton Bypass | Left | 2.19 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.75** | Rating ** | M | Issue No. | **9** |
| LM End | **0.75** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.340919 ° | 39.340919 ° |
| | | | | -122.009751 ° | -122.009751 ° |
| DWR ID | 17562 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17562
FS_ID:55632
EP_NO: 3718
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing has been updated from No Action Needed to Non-Urgent; need maintenance records to determine current status of line. (O. Magana - DWR UCIP)06/03/2016 Crossing appears to be in good condition.04/06/2015 Same as last inspection.07/07/2014 Same as last inspection.12/19/2013 Same as last inspection.07/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 6-inch steel gas pipeline through the levee, 2.5 ft below the crown. Gas line marker on the waterside (WS) toe. (Permit No. 3718, 1961 - Pacific Gas and Electric Company). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 8/5/2019 3:30:00 PM

Photo 1 of 3 : UCIP_FA_2019_55632_47489.jpg

WS view: gasline indicator

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.75** | Rating ** | M | Issue No. | **9 (cont)** |
| LM End | **0.75** | Issue Type + | En | Location * | |

Photo 2 of 3 : UCIP_FA_2019_55632_82230.jpg

WS view: gas line paddle marker off River Road on WS.

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 05 Moulton Bypass | Left | 2.19 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.75** | Rating ** | M | Issue No. | **9 (cont)** |
| LM End | **0.75** | Issue Type + | En | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DRAFT DWR UCIP Field Study | | | 39.340919 ° | 39.340919 ° |
| | | | | -122.009751 ° | -122.009751 ° |
| DWR ID | 17562 | | | | |

**Comment Code**

**Inspector Comment**

DS_ID:17562
FS_ID:55632
EP_NO: 3718
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 08/05/2019 Crossing has been updated from No Action Needed to Non-Urgent; need maintenance records to determine current status of line. (O. Magana - DWR UCIP)06/03/2016 Crossing appears to be in good condition.04/06/2015 Same as last inspection.07/07/2014 Same as last inspection.12/19/2013 Same as last inspection.07/22/2013 Same as last inspection.
FIELD_STRUCT_DESC: 6-inch steel gas pipeline through the levee, 2.5 ft below the crown. Gas line marker on the waterside (WS) toe. (Permit No. 3718, 1961 - Pacific Gas and Electric Company). [Additional Reference(s): DWR Levee Log, 2002].
FS Date: 8/5/2019 3:30:00 PM

Photo 3 of 3 : UCIP_FA_2019_55632_82231.jpg

Overview of levee crown looking d/s.

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **0.80** | Rating ** | M | Issue No. | **6** |
| LM End | **1.52** | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.340601 ° | 39.335719 ° |
| | | | | -122.009012 ° | -121.997165 ° |
| DWR ID | DWR_ST0003_05_s _ 2019_6 | | | | |

**Comment Code**

FE : Fence

**Inspector Comment**

No Photos

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

**Flood Control Project Maintenance**
**Levee Inspections**

# Levee Inspection Report By Mile - Fall 2019

## Sutter Maintenance Yard East Levee Sacramento River

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|---|---|---|---|
| Unit No. 05 Moulton Bypass | Left | 2.19 | 10/16/2019<br>10/16/2019 | Makar<br>Sokol |

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.10** | Rating ** | M | Issue No. | **3** |
| LM End | **1.10** | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 39.338501 ° | 39.338501 ° |
| | | | | -122.004106 ° | -122.004106 ° |
| DWR ID | DWR_ST0003_05_s _ 2019_3 | | | | |

**Comment Code**

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

**Inspector Comment**

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.17** | Rating ** | M | Issue No. | **4** |
| LM End | **1.17** | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 39.337981 ° | 39.337981 ° |
| | | | | -122.002929 ° | -122.002929 ° |
| DWR ID | DWR_ST0003_05_s _ 2019_4 | | | | |

**Comment Code**

A1 : Exterminate rodents and backfill and compact or grout burrows.

**Inspector Comment**

No Photos

| | | | | | |
|---|---|---|---|---|---|
| LM Start | **1.59** | Rating ** | M | Issue No. | **1** |
| LM End | **2.18** | Issue Type + | En | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 39.335953 ° | 39.336852 ° |
| | | | | -121.995807 ° | -121.984934 ° |
| DWR ID | DWR_ST0003_05_s _ 2016_1 | | | | |

**Comment Code**

FE : Fence

**Inspector Comment**

Photo 1 of 1 : FA_2019_ST0003_268_1_20190822_00001.jpg

View of the fence obstructing access.

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