

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Spring 2016 Levee Inspection Results**

**Reclamation District No. 2096 Wetherbee Lake**

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

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

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

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

Comments

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2016 Levee Inspection Results**

**Reclamation District No. 2096 Wetherbee Lake**

| Waterway                      | Bank  | Unit Miles |
|-------------------------------|-------|------------|
| Unit No. 01 San Joaquin River | Right | 0.16       |

|  | Spring<br>(March - May) | Summer<br>(June - August) | (September - November)<br>Fall | Winter<br>(December - February) |
|--|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit Maintenance Rating<br>(Fall Only) |                         |                           |                                |                                 |
| Date of Inspection                     | 4/7/2016 - 4/7/2016     |                           |                                |                                 |
| DWR Inspector                          | Maksim Khashchuk        |                           |                                |                                 |
| Accompanied By                         | Randy Barker<br>RD2096  |                           |                                |                                 |

**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 - Spring 2016**

**Reclamation District No. 2096 Wetherbee Lake**

| Waterway                      | Bank  | Unit Miles | Inspection Start/End     | Inspector        |
|-------------------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 San Joaquin River | Right | 0.16       | 04/07/2016<br>04/07/2016 | Maksim Khashchuk |

|                                    |                                  |              |                        |            |     |
|------------------------------------|----------------------------------|--------------|------------------------|------------|-----|
| LM Start                           |                                  | Rating **    | A                      | Issue No.  | 1   |
| LM End                             |                                  | Issue Type + | Ma                     | Location * | N/A |
| Category                           | Earthen Levee                    |              | GPS Latitude/Longitude |            |     |
|                                    |                                  |              | Start                  | End        |     |
| Item                               | Operations & Maintenance Manuals |              |                        | o          | o   |
| DWR ID                             | DWR_RD2096_01_s_2013_1           |              |                        |            |     |
| Comment Code                       |                                  |              |                        |            |     |
| Inspector Comment                  |                                  |              |                        |            |     |
| O&M Manual is at the LMA's office. |                                  |              |                        |            |     |

No Photos

|                               |                                |              |                        |            |     |
|-------------------------------|--------------------------------|--------------|------------------------|------------|-----|
| LM Start                      |                                | Rating **    | A                      | Issue No.  | 2   |
| LM End                        |                                | Issue Type + | Ma                     | Location * | N/A |
| Category                      | Earthen Levee                  |              | GPS Latitude/Longitude |            |     |
|                               |                                |              | Start                  | End        |     |
| Item                          | Emergency Supplies & Equipment |              |                        | o          | o   |
| DWR ID                        | DWR_RD2096_01_s_2013_2         |              |                        |            |     |
| Comment Code                  |                                |              |                        |            |     |
| Inspector Comment             |                                |              |                        |            |     |
| Emergency supplies available. |                                |              |                        |            |     |

No Photos

|  |                               |              |                        |            |     |
|--|-------------------------------|--------------|------------------------|------------|-----|
| LM Start                                     |                               | Rating **    | A                      | Issue No.  | 4   |
| LM End                                       |                               | Issue Type + | Ma                     | Location * | N/A |
| Category                                     | Earthen Levee                 |              | GPS Latitude/Longitude |            |     |
|  |                               |              | Start                  | End        |     |
| Item   | Flood Preparedness & Training |              |                        | o          | o   |
| DWR ID                                       | DWR_RD2096_01_s_2013_4        |              |                        |            |     |
| Comment Code                                 |                               |              |                        |            |     |
| Inspector Comment                            |                               |              |                        |            |     |
| LMA has a flood response plan in the office. |                               |              |                        |            |     |

No Photos

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 2096 Wetherbee Lake**

| Waterway                      | Bank  | Unit Miles | Inspection Start/End     | Inspector        |
|-------------------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 San Joaquin River | Right | 0.16       | 04/07/2016<br>04/07/2016 | Maksim Khashchuk |

|  |                      |              |                        |               |           |
|--|----------------------|--------------|------------------------|---------------|-----------|
| LM Start   | <b>0.03</b>          | Rating **    | M                      | Issue No.     | <b>14</b> |
| LM End   | <b>0.03</b>          | Issue Type + | En                     | Location *    | N/A       |
| Category   | Supplemental         |              | GPS Latitude/Longitude |               |           |
|  |                      |              | Start                  | End           |           |
| Item   | DWR UCIP Field Study |              | 37.773800 °            | 37.773800 °   |           |
|  |                      |              | -121.298428 °          | -121.298428 ° |           |
| DWR ID   |                      |              |                        |               |           |
| Comment Code   |                      |              |                        |               |           |
| Inspector Comment  |                      |              |                        |               |           |
| FS_ID:21506<br>DS_ID:24666<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: - more information needs to be find from LMA/DWR Inspector for this crossing. - needs to find whether this pipe passes through the levee.<br>FIELD_STRUCT_DESC: A 4-inch steel pipe through the levee and to pump platform, 3 ft. below the crown. It is a element of pumping plant.<br>Field study discovered utility crossing.<br>FS Date: 9/10/2013 |                      |              |                        |               |           |

Photo 1 of 2 : UCIP\_SP\_2016\_21506\_36453.jpg



LS view: 4-inch steel pipe (right) through the levee and to pump platform.

|          |             |              |    |            |                  |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | <b>0.03</b> | Rating **    | M  | Issue No.  | <b>14 (cont)</b> |
| LM End   | <b>0.03</b> | Issue Type + | En | Location * | N/A              |

Photo 2 of 2 : UCIP\_SP\_2016\_21506\_36452.jpg



LS view: closer view of 4-inch steel pipe (left) through the levee and to pump platform.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 2096 Wetherbee Lake**

| Waterway                      | Bank  | Unit Miles | Inspection Start/End     | Inspector        |
|-------------------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 San Joaquin River | Right | 0.16       | 04/07/2016<br>04/07/2016 | Maksim Khashchuk |

|   |                        |              |                        |               |          |
|---|------------------------|--------------|------------------------|---------------|----------|
| LM Start                                | <b>0.05</b>            | Rating **    | M                      | Issue No.     | <b>3</b> |
| LM End                                  | <b>0.10</b>            | Issue Type + | En                     | Location *    | LS       |
| Category                                | Earthen Levee          |              | GPS Latitude/Longitude |               |          |
|   |                        |              | Start                  | End           |          |
| Item                                    | Encroachments          |              | 37.773495 °            | 37.772722 °   |          |
|   |                        |              | -121.298411 °          | -121.298436 ° |          |
| DWR ID                                  | DWR_RD2096_01_s_2012_3 |              |                        |               |          |
| Comment Code                            |                        |              |                        |               |          |
| FE : Fence                              |                        |              |                        |               |          |
| Inspector Comment                       |                        |              |                        |               |          |
| Fence at toe of levee obstructs access. |                        |              |                        |               |          |

Photo 1 of 1 : SP\_2016\_RD2096\_117\_3\_20160229\_00001.jpg



View of the fence at the landside levee toe.

|  |                        |              |                        |               |          |
|--|------------------------|--------------|------------------------|---------------|----------|
| LM Start                                   | <b>0.05</b>            | Rating **    | A/W                    | Issue No.     | <b>8</b> |
| LM End                                     | <b>0.05</b>            | Issue Type + | En                     | Location *    | LS       |
| Category                                   | Earthen Levee          |              | GPS Latitude/Longitude |               |          |
|  |                        |              | Start                  | End           |          |
| Item                                       | Encroachments          |              | 37.773479 °            | 37.773479 °   |          |
|  |                        |              | -121.298486 °          | -121.298486 ° |          |
| DWR ID                                     | DWR_RD2096_01_f_2013_8 |              |                        |               |          |
| Comment Code                               |                        |              |                        |               |          |
| PO : Pole                                  |                        |              |                        |               |          |
| Inspector Comment                          |                        |              |                        |               |          |
| Two telephone poles at landside levee toe. |                        |              |                        |               |          |

Photo 1 of 1 : SP\_2016\_RD2096\_117\_8\_20160229\_00002.jpg



View of the telephone poles at the landside levee toe.

|                               |                        |              |                        |               |          |
|-------------------------------|------------------------|--------------|------------------------|---------------|----------|
| LM Start                      | <b>0.06</b>            | Rating **    | N                      | Issue No.     | <b>9</b> |
| LM End                        | <b>0.06</b>            | Issue Type + | Ma                     | Location *    | LS       |
| Category                      | Earthen Levee          |              | GPS Latitude/Longitude |               |          |
|                               |                        |              | Start                  | End           |          |
| Item                          | Trim / Thin Trees      |              | 37.773348 °            | 37.773348 °   |          |
|                               |                        |              | -121.298475 °          | -121.298475 ° |          |
| DWR ID                        | DWR_RD2096_01_s_2014_9 |              |                        |               |          |
| Comment Code                  |                        |              |                        |               |          |
| T5 : Tree stumps.             |                        |              |                        |               |          |
| Inspector Comment             |                        |              |                        |               |          |
| Pine tree stump at levee toe. |                        |              |                        |               |          |

Photo 1 of 1 : SP\_2016\_RD2096\_117\_9\_20160229\_00003.jpg



View of the tree stump at the landside levee toe.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 2096 Wetherbee Lake**

| Waterway                      | Bank  | Unit Miles | Inspection Start/End     | Inspector        |
|-------------------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 San Joaquin River | Right | 0.16       | 04/07/2016<br>04/07/2016 | Maksim Khashchuk |

|   |                         |              |                        |               |           |
|---|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start  | <b>0.08</b>             | Rating **    | M                      | Issue No.     | <b>13</b> |
| LM End  | <b>0.08</b>             | Issue Type + | En                     | Location *    | LS        |
| Category  | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|   |                         |              | Start                  | End           |           |
| Item  | Encroachments           |              | 37.773021 °            | 37.773021 °   |           |
|   |                         |              | -121.298430 °          | -121.298430 ° |           |
| DWR ID  | DWR_RD2096_01_s_2014_13 |              |                        |               |           |
| Comment Code  |                         |              |                        |               |           |
| RW : Retaining Wall   |                         |              |                        |               |           |
| Inspector Comment   |                         |              |                        |               |           |
| Abut 1 foot by 50 feet retaining wall at levee toe with irrigation and landscaping. |                         |              |                        |               |           |

Photo 1 of 1 : SP\_2016\_RD2096\_117\_13\_20160229\_00006.jpg



View of the retaining wall at the landside levee toe.

|   |                        |              |                        |               |          |
|---|------------------------|--------------|------------------------|---------------|----------|
| LM Start  | <b>0.09</b>            | Rating **    | M                      | Issue No.     | <b>6</b> |
| LM End  | <b>0.09</b>            | Issue Type + | Ma                     | Location *    | LS       |
| Category  | Earthen Levee          |              | GPS Latitude/Longitude |               |          |
|   |                        |              | Start                  | End           |          |
| Item  | Animal Control         |              | 37.772891 °            | 37.772891 °   |          |
|   |                        |              | -121.298454 °          | -121.298454 ° |          |
| DWR ID  | DWR_RD2096_01_s_2016_6 |              |                        |               |          |
| Comment Code  |                        |              |                        |               |          |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. |                        |              |                        |               |          |
| Inspector Comment   |                        |              |                        |               |          |

Photo 1 of 1 : SP\_2016\_RD2096\_117\_6\_20160412\_00009.jpg



View of the rodent hole on the landside levee slope.

|   |                         |              |                        |               |           |
|---|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start  | <b>0.12</b>             | Rating **    | M                      | Issue No.     | <b>11</b> |
| LM End  | <b>0.12</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category  | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|   |                         |              | Start                  | End           |           |
| Item  | Slope Stability         |              | 37.772434 °            | 37.772434 °   |           |
|   |                         |              | -121.298433 °          | -121.298433 ° |           |
| DWR ID  | DWR_RD2096_01_s_2015_11 |              |                        |               |           |
| Comment Code  |                         |              |                        |               |           |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. |                         |              |                        |               |           |
| Inspector Comment   |                         |              |                        |               |           |

Photo 1 of 2 : SP\_2016\_RD2096\_117\_11\_20160229\_00004.jpg



View of the vehicle tracks eroding the waterside levee slope.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Reclamation District No. 2096 Wetherbee Lake**

| Waterway                      | Bank  | Unit Miles | Inspection Start/End     | Inspector        |
|-------------------------------|-------|------------|--------------------------|------------------|
| Unit No. 01 San Joaquin River | Right | 0.16       | 04/07/2016<br>04/07/2016 | Maksim Khashchuk |

|   |                         |              |    |                        |                  |
|---|-------------------------|--------------|----|------------------------|------------------|
| LM Start  | <b>0.12</b>             | Rating **    | M  | Issue No.              | <b>11 (cont)</b> |
| LM End  | <b>0.12</b>             | Issue Type + | Ma | Location *             | WS               |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |                  |
|   |                         |              |    | Start                  | End              |
| Item  | Slope Stability         |              |    | 37.772434 °            | 37.772434 °      |
|   |                         |              |    | -121.298433 °          | -121.298433 °    |
| DWR ID  | DWR_RD2096_01_s_2015_11 |              |    |                        |                  |
| Comment Code  |                         |              |    |                        |                  |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. |                         |              |    |                        |                  |
| Inspector Comment   |                         |              |    |                        |                  |
|   |                         |              |    |                        |                  |

Photo 2 of 2 : SP\_2016\_RD2096\_117\_11\_20160229\_00005.jpg



Another view of the vehicle tracks on the waterside levee slope.

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