

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2015 Levee Maintenance Deficiency Summary Report**

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

**Sacramento River Basin**

| RD0150<br>Reclamation District No. 0150 Merrit Island |                        | Overall LMA Rating  | Total LMA Miles  | * Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A. |             |         |                              |         |  |
|---|------------------------|---------------------|------------------|---|-------------|---------|------------------------------|---------|--|
|   |                        | <b>M *</b>          | <b>17.74</b>     |   |             |         |                              |         |  |
| Rated Item  | Maintenance Deficiency |                     |                  |   | Enforcement |         | Design & System Obsolescence |         |  |
|   | M Miles                | U Miles             | M + 4U Miles     | Threshold %   | M Miles     | U Miles | M Miles                      | U Miles |  |
| <i>Earthen Levee</i>                                  |                        |                     |                  |   |             |         |                              |         |  |
| Vegetation  | 0.08                   |                     | 0.08             | 0.45%   | 0.54        | 0.80    |                              |         |  |
| Trim / Thin Trees                                     | 0.02                   | 0.02                | 0.10             | 0.56%   |             |         |                              |         |  |
| Encroachments   | 0.11                   |                     | 0.11             | 0.62%   | 0.53        | 0.02    |                              |         |  |
| Animal Control  | 0.06                   | 0.01                | 0.10             | 0.56%   |             |         |                              |         |  |
| Slope Stability                                       | 0.07                   |                     | 0.07             | 0.39%   |             |         | 0.02                         |         |  |
| Erosion / Bank Caving                                 | 0.08                   | 0.03                | 0.20             | 1.13%   |             |         | 0.01                         |         |  |
| Crown Surface / Depressions / Rutting                 | 0.01                   |                     | 0.01             | 0.06%   |             |         |                              |         |  |
| <i>Supplemental</i>                                   |                        |                     |                  |   |             |         |                              |         |  |
| 2015 USACE Erosion Survey, DRAFT                      | 0.12                   |                     | 0.12             | 0.68%   |             |         | 9.39                         |         |  |
| DWR UCIP Field Study                                  |                        |                     |                  |   | 0.28        | 0.06    |                              |         |  |
| <i>LMA Totals:</i>                                    | 0.55                   | 0.06                | 0.79             | 4.45% *   | 1.35        | 0.88    | 9.42                         | 0.00    |  |
| <b>Unit No. 01 Sutter Slough LB</b>                   |                        | Overall Unit Rating | Total Unit Miles |   |             |         |                              |         |  |
| RD0150  |                        | <b>M</b>            | <b>0.52</b>      |   |             |         |                              |         |  |
| Rated Item  | Maintenance Deficiency |                     |                  |   | Enforcement |         | Design & System Obsolescence |         |  |
|   | M Miles                | U Miles             | M + 4U Miles     | Threshold %   | M Miles     | U Miles | M Miles                      | U Miles |  |
| <i>Earthen Levee</i>                                  |                        |                     |                  |   |             |         |                              |         |  |
| Vegetation  | 0.01                   |                     | 0.01             | 1.93%   |             |         |                              |         |  |
| <i>Supplemental</i>                                   |                        |                     |                  |   |             |         |                              |         |  |
| 2015 USACE Erosion Survey, DRAFT                      | 0.05                   |                     | 0.05             | 9.63%   |             |         |                              |         |  |
| <i>Unit Totals:</i>                                   | 0.06                   | 0.00                | 0.06             | 11.55%  | 0.00        | 0.00    | 0.00                         | 0.00    |  |
| <b>Unit No. 02 Sacramento River RB</b>                |                        | Overall Unit Rating | Total Unit Miles |   |             |         |                              |         |  |
| RD0150  |                        | <b>A</b>            | <b>7.81</b>      |   |             |         |                              |         |  |
| Rated Item  | Maintenance Deficiency |                     |                  |   | Enforcement |         | Design & System Obsolescence |         |  |
|   | M Miles                | U Miles             | M + 4U Miles     | Threshold %   | M Miles     | U Miles | M Miles                      | U Miles |  |
| <i>Earthen Levee</i>                                  |                        |                     |                  |   |             |         |                              |         |  |
| Vegetation  | 0.03                   |                     | 0.03             | 0.38%   | 0.33        | 0.46    |                              |         |  |
| Encroachments   | 0.05                   |                     | 0.05             | 0.64%   | 0.12        | 0.01    |                              |         |  |
| Slope Stability                                       | 0.03                   |                     | 0.03             | 0.38%   |             |         |                              |         |  |
| Erosion / Bank Caving                                 | 0.01                   |                     | 0.01             | 0.13%   |             |         |                              |         |  |
| <i>Supplemental</i>                                   |                        |                     |                  |   |             |         |                              |         |  |
| 2015 USACE Erosion Survey, DRAFT                      | 0.07                   |                     | 0.07             | 0.90%   |             |         |                              |         |  |
| DWR UCIP Field Study                                  |                        |                     |                  |   | 0.17        | 0.03    |                              |         |  |
| <i>Unit Totals:</i>                                   | 0.19                   | 0.00                | 0.19             | 2.43%   | 0.62        | 0.50    | 0.00                         | 0.00    |  |

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2015 Levee Maintenance Deficiency Summary Report  
Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin (cont.)**

| Unit No. 03 Elk Slough LB<br>RD0150   | Overall Unit Rating    | Total Unit Miles | * Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A. |             |             |         |                              |         |  |
|---------------------------------------|------------------------|------------------|---|-------------|-------------|---------|------------------------------|---------|--|
|                                       | <b>M *</b>             | <b>9.41</b>      |   |             |             |         |                              |         |  |
| Rated Item                            | Maintenance Deficiency |                  |   |             | Enforcement |         | Design & System Obsolescence |         |  |
|                                       | M Miles                | U Miles          | M + 4U Miles  | Threshold % | M Miles     | U Miles | M Miles                      | U Miles |  |
| <i>Earthen Levee</i>                  |                        |                  |   |             |             |         |                              |         |  |
| Vegetation                            | 0.04                   |                  | 0.04  | 0.43%       | 0.21        | 0.34    |                              |         |  |
| Trim / Thin Trees                     | 0.02                   | 0.02             | 0.10  | 1.06%       |             |         |                              |         |  |
| Encroachments                         | 0.06                   |                  | 0.06  | 0.64%       | 0.41        | 0.01    |                              |         |  |
| Animal Control                        | 0.06                   | 0.01             | 0.10  | 1.06%       |             |         |                              |         |  |
| Slope Stability                       | 0.04                   |                  | 0.04  | 0.43%       |             |         | 0.02                         |         |  |
| Erosion / Bank Caving                 | 0.07                   | 0.03             | 0.19  | 2.02%       |             |         | 0.01                         |         |  |
| Crown Surface / Depressions / Rutting | 0.01                   |                  | 0.01  | 0.11%       |             |         |                              |         |  |
| <i>Supplemental</i>                   |                        |                  |   |             |             |         |                              |         |  |
| 2015 USACE Erosion Survey, DRAFT      |                        |                  |   |             |             |         | 9.39                         |         |  |
| DWR UCIP Field Study                  |                        |                  |   |             | 0.11        | 0.03    |                              |         |  |
| <i>Unit Totals:</i>                   | 0.30                   | 0.06             | 0.54  | 5.74% *     | 0.73        | 0.38    | 9.42                         | 0.00    |  |

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2015 Levee Inspection Results**

**Reclamation District No. 0150 Merrit Island**

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

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

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

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

Comments

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2015 Levee Inspection Results**

**Reclamation District No. 0150 Merrit Island**

| Waterway                               |                         | Bank                      | Unit Miles                     |                                 |
|--|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit No. 01 Sutter Slough              |                         | Left                      | 0.52                           |                                 |
|  | Spring<br>(March - May) | Summer<br>(June - August) | (September - November)<br>Fall | Winter<br>(December - February) |
| Unit Maintenance Rating<br>(Fall Only) |                         |                           | <b>M</b>                       |                                 |
| Date of Inspection                     | 04/08/2015 - 04/08/2015 |                           | 11/18/2015 - 11/18/2015        |                                 |
| DWR Inspector                          | Pavel Kazi              |                           | Pavel Kazi                     |                                 |
| Accompanied By                         |                         |                           |                                |                                 |

**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 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                  | Bank | Unit Miles | Inspection Start/End     | Inspector     |
|---------------------------|------|------------|--------------------------|---------------|
| Unit No. 01 Sutter Slough | Left | 0.52       | 11/18/2015<br>11/18/2015 | Pavel<br>Kazi |

|  |                                  |              |                        |            |          |
|--|----------------------------------|--------------|------------------------|------------|----------|
| LM Start   | <b>0.00</b>                      | Rating **    | A                      | Issue No.  | <b>4</b> |
| LM End   | <b>0.00</b>                      | Issue Type + | Ma                     | Location * | N/A      |
| Category   | Earthen Levee                    |              | GPS Latitude/Longitude |            |          |
|  |                                  |              | Start                  |            | End      |
| Item   | Operations & Maintenance Manuals |              |                        | °          | °        |
| DWR ID   | DWR_RD0150_01_s_2013_4           |              |                        |            |          |
| Action/Comments  |                                  |              |                        |            |          |
| Inspector Comments: This LMA has the updated O&M manuals for their district. |                                  |              |                        |            |          |

No Photos

|   |                                |              |                        |            |          |
|---|--------------------------------|--------------|------------------------|------------|----------|
| LM Start  | <b>0.00</b>                    | Rating **    | A                      | Issue No.  | <b>5</b> |
| LM End  | <b>0.00</b>                    | Issue Type + | Ma                     | Location * | N/A      |
| Category  | Earthen Levee                  |              | GPS Latitude/Longitude |            |          |
|   |                                |              | Start                  |            | End      |
| Item  | Emergency Supplies & Equipment |              |                        | °          | °        |
| DWR ID  | DWR_RD0150_01_s_2013_5         |              |                        |            |          |
| Action/Comments   |                                |              |                        |            |          |
| Inspector Comments: This LMA has adequate amount of flood fighting materials in a centralized location. |                                |              |                        |            |          |

No Photos

|  |                               |              |                        |            |          |
|--|-------------------------------|--------------|------------------------|------------|----------|
| LM Start   | <b>0.00</b>                   | Rating **    | A                      | Issue No.  | <b>6</b> |
| LM End   | <b>0.00</b>                   | Issue Type + | Ma                     | Location * | N/A      |
| Category   | Earthen Levee                 |              | GPS Latitude/Longitude |            |          |
|  |                               |              | Start                  |            | End      |
| Item   | Flood Preparedness & Training |              |                        | °          | °        |
| DWR ID   | DWR_RD0150_01_s_2013_6        |              |                        |            |          |
| Action/Comments  |                               |              |                        |            |          |
| Inspector Comments: The crew of this LMA had flood fighting training from DWR. |                               |              |                        |            |          |

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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                  | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|---------------------------|------|------------|--------------------------|------------|
| Unit No. 01 Sutter Slough | Left | 0.52       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|  |                        |              |                        |               |          |
|--|------------------------|--------------|------------------------|---------------|----------|
| LM Start   | <b>0.19</b>            | Rating **    | M                      | Issue No.     | <b>3</b> |
| LM End   | <b>0.19</b>            | Issue Type + | Ma                     | Location *    | LS       |
| Category   | Earthen Levee          |              | GPS Latitude/Longitude |               |          |
|  |                        |              | Start                  | End           |          |
| Item   | Vegetation             |              | 38.331402 °            | 38.331402 °   |          |
|  |                        |              | -121.580358 °          | -121.580358 ° |          |
| DWR ID   | DWR_RD0150_01_s_2012_3 |              |                        |               |          |
| Action/Comments  |                        |              |                        |               |          |
| Elderberries are blocking visibility and flood fight capability.<br>Inspector Comments: Elderberry is partially blocking the visibility. |                        |              |                        |               |          |

Photo 1 of 1 : FA\_2015\_RD0150\_15\_3\_20150911\_00003.jpg



Elderberry bush was found on the landside of the levee. The picture was taken from the crown looking downstream.

|  |                        |              |                        |               |          |
|--|------------------------|--------------|------------------------|---------------|----------|
| LM Start   | <b>0.43</b>            | Rating **    | A                      | Issue No.     | <b>1</b> |
| LM End   | <b>0.43</b>            | Issue Type + | Ma                     | Location *    | WS       |
| Category   | Earthen Levee          |              | GPS Latitude/Longitude |               |          |
|  |                        |              | Start                  | End           |          |
| Item   | Vegetation             |              | 38.328779 °            | 38.328779 °   |          |
|  |                        |              | -121.577443 °          | -121.577443 ° |          |
| DWR ID   | DWR_RD0150_01_f_2015_1 |              |                        |               |          |
| Action/Comments  |                        |              |                        |               |          |
| Control annual grass and weeds on the levee slopes and easements.<br>Inspector Comments: Accetable vegetation. |                        |              |                        |               |          |

Photo 1 of 1 : FA\_2015\_RD0150\_15\_1\_20151119\_00004.jpg



LMA mowed the vegetation on the waterside of the levee.

|   |                                  |              |                        |               |          |
|---|----------------------------------|--------------|------------------------|---------------|----------|
| LM Start  | <b>0.44</b>                      | Rating **    | M                      | Issue No.     | <b>2</b> |
| LM End  | <b>0.49</b>                      | Issue Type + | Ma                     | Location *    | WS       |
| Category  | Supplemental                     |              | GPS Latitude/Longitude |               |          |
|   |                                  |              | Start                  | End           |          |
| Item  | 2015 USACE Erosion Survey, DRAFT |              | 38.328555 °            | 38.328020 °   |          |
|   |                                  |              | -121.577544 °          | -121.576693 ° |          |
| DWR ID  |                                  |              |                        |               |          |
| Action/Comments   |                                  |              |                        |               |          |
| Inspector Comments: 2013 - Old toe repair unraveling. Bridge at upstream end of site. 2015: No observed changes. [2015 Site ID: STR_28-4_R] |                                  |              |                        |               |          |

Photo 1 of 2 : USACE2013A\_STR\_28-4\_R\_14.jpg



USACE 2013 Photo #1

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                  | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|---------------------------|------|------------|--------------------------|------------|
| Unit No. 01 Sutter Slough | Left | 0.52       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|   |                                  |              |    |                        |                 |
|---|----------------------------------|--------------|----|------------------------|-----------------|
| LM Start  | <b>0.44</b>                      | Rating **    | M  | Issue No.              | <b>2 (cont)</b> |
| LM End  | <b>0.49</b>                      | Issue Type + | Ma | Location *             | WS              |
| Category  | Supplemental                     |              |    | GPS Latitude/Longitude |                 |
|   |                                  |              |    | Start                  | End             |
| Item  | 2015 USACE Erosion Survey, DRAFT |              |    | 38.328555 °            | 38.328020 °     |
|   |                                  |              |    | -121.577544 °          | -121.576693 °   |
| DWR ID  |                                  |              |    |                        |                 |
| <b>Action/Comments</b>  |                                  |              |    |                        |                 |
| Inspector Comments: 2013 - Old toe repair unraveling. Bridge at upstream end of site. 2015: No observed changes. [2015 Site ID: STR_28-4_R] |                                  |              |    |                        |                 |

Photo 2 of 2 : USACE2013A\_STR\_28-4\_R\_17.jpg



USACE 2013 Photo #2

|  |  |   |   |
|--|--|---|---|
| <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**

**Unit Cover Sheet**

**Fall 2015 Levee Inspection Results**

**Reclamation District No. 0150 Merrit Island**

| Waterway                               |                         | Bank                      | Unit Miles                     |                                 |
|--|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit No. 02 Sacramento River           |                         | Right                     | 7.81                           |                                 |
|  | Spring<br>(March - May) | Summer<br>(June - August) | (September - November)<br>Fall | Winter<br>(December - February) |
| Unit Maintenance Rating<br>(Fall Only) |                         |                           | A                              |                                 |
| Date of Inspection                     | 04/08/2015 - 04/08/2015 |                           | 11/18/2015 - 11/18/2015        |                                 |
| DWR Inspector                          | Pavel Kazi              |                           | Pavel Kazi                     |                                 |
| Accompanied By                         |                         |                           |                                |                                 |

**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).

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- a) completion of the inspection
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|                             |                        |              |     |                        |               |
|-----------------------------|------------------------|--------------|-----|------------------------|---------------|
| LM Start                    | <b>0.14</b>            | Rating **    | A/W | Issue No.              | <b>5</b>      |
| LM End                      | <b>4.77</b>            | Issue Type + | En  | Location *             | WS            |
| Category                    | Earthen Levee          |              |     | GPS Latitude/Longitude |               |
|                             |                        |              |     | Start                  | End           |
| Item                        | Vegetation             |              |     | 38.329782 °            | 38.374641 °   |
|                             |                        |              |     | -121.574769 °          | -121.524730 ° |
| DWR ID                      | DWR_RD0150_02_s_2012_5 |              |     |                        |               |
| Action/Comments             |                        |              |     |                        |               |
| Environmental Requirements. |                        |              |     |                        |               |

No Photos

|                 |                         |              |    |                        |               |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start        | <b>0.16</b>             | Rating **    | U  | Issue No.              | <b>49</b>     |
| LM End          | <b>0.16</b>             | Issue Type + | En | Location *             | WS            |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                 |                         |              |    | Start                  | End           |
| Item            | Encroachments           |              |    | 38.330047 °            | 38.330047 °   |
|                 |                         |              |    | -121.574538 °          | -121.574538 ° |
| DWR ID          | DWR_RD0150_02_s_2012_49 |              |    |                        |               |
| Action/Comments |                         |              |    |                        |               |
| Building        |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_49\_20150911\_00027.jpg



Building located on waterside of levee at LM 0.16

|                 |                          |              |    |                        |               |
|-----------------|--------------------------|--------------|----|------------------------|---------------|
| LM Start        | <b>0.17</b>              | Rating **    | M  | Issue No.              | <b>990</b>    |
| LM End          | <b>0.21</b>              | Issue Type + | En | Location *             | LS            |
| Category        | Earthen Levee            |              |    | GPS Latitude/Longitude |               |
|                 |                          |              |    | Start                  | End           |
| Item            | Vegetation               |              |    | 38.330173 °            | 38.330576 °   |
|                 |                          |              |    | -121.574490 °          | -121.574093 ° |
| DWR ID          | DWR_RD0150_02_s_2012_990 |              |    |                        |               |
| Action/Comments |                          |              |    |                        |               |
| Landscaping     |                          |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_990\_20150911\_00057.jpg



Landscaping was found on the landside of the levee looking upstream.

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|   |                         |              |                        |               |           |
|---|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start  | <b>0.20</b>             | Rating **    | A                      | Issue No.     | <b>57</b> |
| LM End  | <b>0.20</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category  | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|   |                         |              | Start                  | End           |           |
| Item  | Vegetation              |              | 38.330437 °            | 38.330437 °   |           |
|   |                         |              | -121.574127 °          | -121.574127 ° |           |
| DWR ID  | DWR_RD0150_02_f_2015_57 |              |                        |               |           |
| Action/Comments   |                         |              |                        |               |           |
| Control annual grass and weeds on the levee slopes and easements.<br>Inspector Comments: Acceptable vegetation. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_57\_20151119\_00077.jpg



View of acceptable vegetation on the waterside of the levee.

|   |                      |              |                        |               |            |
|---|----------------------|--------------|------------------------|---------------|------------|
| LM Start  | <b>0.23</b>          | Rating **    | M                      | Issue No.     | <b>991</b> |
| LM End  | <b>0.23</b>          | Issue Type + | En                     | Location *    | WS         |
| Category  | Supplemental         |              | GPS Latitude/Longitude |               |            |
|   |                      |              | Start                  | End           |            |
| Item  | DWR UCIP Field Study |              | 38.330888 °            | 38.330888 °   |            |
|   |                      |              | -121.573769 °          | -121.573769 ° |            |
| DWR ID  |                      |              |                        |               |            |
| Action/Comments   |                      |              |                        |               |            |
| Inspector Comments: FS_ID:42700<br>DS_ID:22416<br>EP_NO: N/A<br>FS_HLM: 0.237<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: Appears abandoned and if so should be done so properly.- Dense vegetation on waterside.- Seems abandoned pipe and pump.<br>FIELD_STRUCT_DESC: Abandoned 10-inch steel pipe through the levee, 2.8 feet below the crown. Pump on landside. Concrete box on landside. O&M Manual SAC 112, March 1957.<br>FS Date: 08/27/2013 |                      |              |                        |               |            |

Photo 1 of 3 : UCIP\_FA\_2015\_2001.jpg



LS view: abandoned pipe and concrete box on landside 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<br>M : Minimally Acceptable<br>U : Unacceptable | <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|          |                      |              |    |                        |                   |
|----------|----------------------|--------------|----|------------------------|-------------------|
| LM Start | <b>0.23</b>          | Rating **    | M  | Issue No.              | <b>991 (cont)</b> |
| LM End   | <b>0.23</b>          | Issue Type + | En | Location *             | WS                |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |                   |
|          |                      |              |    | Start                  | End               |
| Item     | DWR UCIP Field Study |              |    | 38.330888 °            | 38.330888 °       |
|          |                      |              |    | -121.573769 °          | -121.573769 °     |
| DWR ID   |                      |              |    |                        |                   |

**Action/Comments**

Inspector Comments: FS\_ID:42700  
 DS\_ID:22416  
 EP\_NO: N/A  
 FS\_HLM: 0.237  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: Appears abandoned and if so should be done so properly.- Dense vegetation on waterside.- Seems abandoned pipe and pump.  
 FIELD\_STRUCT\_DESC: Abandoned 10-inch steel pipe through the levee, 2.8 feet below the crown. Pump on landside. Concrete box on landside. O&M Manual SAC 112, March 1957.  
 FS Date: 08/27/2013

Photo 2 of 3 : UCIP\_FA\_2015\_2037.jpg



LS view: abandoned pipe and pump on landside toe.

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>0.23</b> | Rating **    | M  | Issue No.  | <b>991 (cont)</b> |
| LM End   | <b>0.23</b> | Issue Type + | En | Location * | WS                |

Photo 3 of 3 : UCIP\_FA\_2015\_2038.jpg



WS view: No pipe found on waterside slope. Dense vegetation on waterside.

|   |  |   |
|---|--|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|                 |                        |              |                        |               |          |
|-----------------|------------------------|--------------|------------------------|---------------|----------|
| LM Start        | <b>0.25</b>            | Rating **    | U                      | Issue No.     | <b>4</b> |
| LM End          | <b>0.25</b>            | Issue Type + | En                     | Location *    | LS       |
| Category        | Earthen Levee          |              | GPS Latitude/Longitude |               |          |
|                 |                        |              | Start                  | End           |          |
| Item            | Vegetation             |              | 38.331035 °            | 38.331035 °   |          |
|                 |                        |              | -121.573502 °          | -121.573502 ° |          |
| DWR ID          | DWR_RD0150_02_s_2012_4 |              |                        |               |          |
| Action/Comments |                        |              |                        |               |          |
| Landscaping     |                        |              |                        |               |          |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_4\_20150911\_00001.jpg



Landscaping on landward slope of the levee.

|                 |                        |              |                        |               |          |
|-----------------|------------------------|--------------|------------------------|---------------|----------|
| LM Start        | <b>0.34</b>            | Rating **    | M                      | Issue No.     | <b>9</b> |
| LM End          | <b>0.34</b>            | Issue Type + | En                     | Location *    | LS       |
| Category        | Earthen Levee          |              | GPS Latitude/Longitude |               |          |
|                 |                        |              | Start                  | End           |          |
| Item            | Encroachments          |              | 38.332156 °            | 38.332156 °   |          |
|                 |                        |              | -121.572580 °          | -121.572580 ° |          |
| DWR ID          | DWR_RD0150_02_s_2012_9 |              |                        |               |          |
| Action/Comments |                        |              |                        |               |          |
| Fence           |                        |              |                        |               |          |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_9\_20150911\_00005.jpg



Fence was found on the landside of the levee looking upstream.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>0.38</b>             | Rating **    | M                      | Issue No.     | <b>13</b> |
| LM End          | <b>0.38</b>             | Issue Type + | En                     | Location *    | WS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Encroachments           |              | 38.332647 °            | 38.332647 °   |           |
|                 |                         |              | -121.572140 °          | -121.572140 ° |           |
| DWR ID          | DWR_RD0150_02_s_2012_13 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Stairway        |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_13\_20150911\_00008.jpg



A stairway was found on the waterside of the levee. The picture was taken from the crown looking upstream.

|   |  |   |
|---|--|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|          |                      |              |    |                        |               |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | <b>0.38</b>          | Rating **    | M  | Issue No.              | <b>992</b>    |
| LM End   | <b>0.38</b>          | Issue Type + | En | Location *             | WS            |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |               |
|          |                      |              |    | Start                  | End           |
| Item     | DWR UCIP Field Study |              |    | 38.332670 °            | 38.332670 °   |
|          |                      |              |    | -121.572132 °          | -121.572132 ° |
| DWR ID   |                      |              |    |                        |               |

**Action/Comments**  
 Inspector Comments: FS\_ID:20268  
 DS\_ID:22417  
 EP\_NO: N/A  
 FS\_HLM: 0.3906  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: - Water leaks from pressure breaker.- Distribution box at the landward toe not found/visible.- Service pole on LS toe.  
 FIELD\_STRUCT\_DESC: 4-inch steel pipe joined to 6-inch steel pipe and the 6-inch pipe joined to 10-inch steel pipe through the levee, 5.8 feet below the crown. 1.5-inch conduit through the levee, 3 feet below the crown. Pump and gate valve on the waterward slope. (Runyon).  
 FS Date: 08/27/2013

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>0.38</b> | Rating **    | M  | Issue No.  | <b>992 (cont)</b> |
| LM End   | <b>0.38</b> | Issue Type + | En | Location * | WS                |

Photo 1 of 3 : UCIP\_FA\_2015\_1998.jpg



LS view: distribution box not found/visible on levee toe.

Photo 2 of 3 : UCIP\_FA\_2015\_1999.jpg



WS view: pump, electric control box, electric conduit on concrete pad. Water leaks from pressure breaker.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|   |                      |              |    |                        |                   |
|---|----------------------|--------------|----|------------------------|-------------------|
| LM Start  | <b>0.38</b>          | Rating **    | M  | Issue No.              | <b>992 (cont)</b> |
| LM End  | <b>0.38</b>          | Issue Type + | En | Location *             | WS                |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |                   |
|   |                      |              |    | Start                  | End               |
| Item  | DWR UCIP Field Study |              |    | 38.332670 °            | 38.332670 °       |
|   |                      |              |    | -121.572132 °          | -121.572132 °     |
| DWR ID  |                      |              |    |                        |                   |
| Action/Comments   |                      |              |    |                        |                   |
| Inspector Comments: FS_ID:20268<br>DS_ID:22417<br>EP_NO: N/A<br>FS_HLM: 0.3906<br>Repair Type: Non-Urgent<br>Crossing Status: Found |                      |              |    |                        |                   |

Photo 3 of 3 : UCIP\_FA\_2015\_2000.jpg



WS view: walkway/stairs, pump on levee slope.

|   |                        |              |    |                        |               |
|---|------------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>0.39</b>            | Rating **    | M  | Issue No.              | <b>6</b>      |
| LM End  | <b>0.39</b>            | Issue Type + | Ma | Location *             | WS            |
| Category  | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|   |                        |              |    | Start                  | End           |
| Item  | Slope Stability        |              |    | 38.332717 °            | 38.332717 °   |
|   |                        |              |    | -121.572083 °          | -121.572083 ° |
| DWR ID  | DWR_RD0150_02_s_2012_6 |              |    |                        |               |
| Action/Comments   |                        |              |    |                        |               |
| Repair the levee slope damaged by foot traffic and prevent access where possible. |                        |              |    |                        |               |

Photo 1 of 2 : FA\_2015\_RD0150\_16\_6\_20150911\_00002.jpg



Updated photo of the slope instability on the waterside of the levee looking upstream during spring 2014 inspection.

|          |             |              |    |            |                 |
|----------|-------------|--------------|----|------------|-----------------|
| LM Start | <b>0.39</b> | Rating **    | M  | Issue No.  | <b>6 (cont)</b> |
| LM End   | <b>0.39</b> | Issue Type + | Ma | Location * | WS              |

Photo 2 of 2 : FA\_2015\_RD0150\_16\_6\_20150911\_00003.jpg



Slope instability was found on the waterside of the levee looking upstream.

|   |  |   |
|---|--|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>0.46</b>          | Rating **    | M  | Issue No.              | <b>993</b>    |
| LM End   | <b>0.46</b>          | Issue Type + | En | Location *             | WS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 38.333527 °            | 38.333527 °   |
|  |                      |              |    | -121.571274 °          | -121.571274 ° |
| DWR ID   |                      |              |    |                        |               |
| Action/Comments  |                      |              |    |                        |               |
| Inspector Comments: FS_ID:20267<br>DS_ID:22418<br>EP_NO: N/A<br>FS_HLM: 0.467<br>Repair Type: Non-Urgent<br>Crossing Status: Found |                      |              |    |                        |               |

Photo 1 of 3 : UCIP\_FA\_2015\_1902.jpg



WS view: steel pipe, gate valve, and pump on levee slope. Seems abandoned.

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>0.46</b> | Rating **    | M  | Issue No.  | <b>993 (cont)</b> |
| LM End   | <b>0.46</b> | Issue Type + | En | Location * | WS                |

Photo 2 of 3 : UCIP\_FA\_2015\_1903.jpg



WS view: steel pipe and pump on concrete pad. Seems abandoned.

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|  |                      |              |    |                        |                   |
|--|----------------------|--------------|----|------------------------|-------------------|
| LM Start   | <b>0.46</b>          | Rating **    | M  | Issue No.              | <b>993 (cont)</b> |
| LM End   | <b>0.46</b>          | Issue Type + | En | Location *             | WS                |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |                   |
|  |                      |              |    | Start                  | End               |
| Item   | DWR UCIP Field Study |              |    | 38.333527 °            | 38.333527 °       |
|  |                      |              |    | -121.571274 °          | -121.571274 °     |
| DWR ID   |                      |              |    |                        |                   |
| Action/Comments  |                      |              |    |                        |                   |
| Inspector Comments: FS_ID:20267<br>DS_ID:22418<br>EP_NO: N/A<br>FS_HLM: 0.467<br>Repair Type: Non-Urgent<br>Crossing Status: Found |                      |              |    |                        |                   |

Photo 3 of 3 : UCIP\_FA\_2015\_1904.jpg



WS view: steel pipe and pump on levee slope. Dense vegetation on waterside.

|   |                      |              |    |                        |               |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>0.48</b>          | Rating **    | M  | Issue No.              | <b>994</b>    |
| LM End  | <b>0.48</b>          | Issue Type + | En | Location *             | WS            |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |               |
|   |                      |              |    | Start                  | End           |
| Item  | DWR UCIP Field Study |              |    | 38.333754 °            | 38.333754 °   |
|   |                      |              |    | -121.571018 °          | -121.571018 ° |
| DWR ID  |                      |              |    |                        |               |
| Action/Comments   |                      |              |    |                        |               |
| Inspector Comments: FS_ID:20284<br>DS_ID:22419<br>EP_NO: N/A<br>FS_HLM: 0.488<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: Needs proper abandonment.<br>FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 5.7 feet below the crown. Power line on landside.(Mrs. J. Olson) O&M Manual SAC 112, March 1957.<br>FS Date: 08/27/2013 |                      |              |    |                        |               |

Photo 1 of 2 : UCIP\_FA\_2015\_2039.jpg



LS view: exposed steel pipe and power pole on levee toe.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|   |                      |              |    |                        |                   |
|---|----------------------|--------------|----|------------------------|-------------------|
| LM Start  | <b>0.48</b>          | Rating **    | M  | Issue No.              | <b>994 (cont)</b> |
| LM End  | <b>0.48</b>          | Issue Type + | En | Location *             | WS                |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |                   |
|   |                      |              |    | Start                  | End               |
| Item  | DWR UCIP Field Study |              |    | 38.333754 °            | 38.333754 °       |
|   |                      |              |    | -121.571018 °          | -121.571018 °     |
| DWR ID  |                      |              |    |                        |                   |
| Action/Comments   |                      |              |    |                        |                   |
| Inspector Comments: FS_ID:20284<br>DS_ID:22419<br>EP_NO: N/A<br>FS_HLM: 0.488<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: Needs proper abandonment.<br>FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 5.7 feet below the crown. Power line on landside.(Mrs. J. Olson) O&M Manual SAC 112, March 1957.<br>FS Date: 08/27/2013 |                      |              |    |                        |                   |

Photo 2 of 2 : UCIP\_FA\_2015\_2040.jpg



WS view: abandoned pump on levee slope. Dense vegetation on waterside.

|   |                      |              |    |                        |               |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>0.70</b>          | Rating **    | M  | Issue No.              | <b>995</b>    |
| LM End  | <b>0.70</b>          | Issue Type + | En | Location *             | WS            |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |               |
|   |                      |              |    | Start                  | End           |
| Item  | DWR UCIP Field Study |              |    | 38.336183 °            | 38.336183 °   |
|   |                      |              |    | -121.568383 °          | -121.568383 ° |
| DWR ID  |                      |              |    |                        |               |
| Action/Comments   |                      |              |    |                        |               |
| Inspector Comments: FS_ID:20303<br>DS_ID:22421<br>EP_NO: 16109<br>FS_HLM: 0.7128<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: - 10" steel pipe on both sides of the levee. According to permit and inspectors note- 16" steel pipe through the levee.- concrete standpipe inside water filtration plant on landside toe.- air pressure tank on waterside steel deck.<br>FIELD_STRUCT_DESC: 16 inch steel pipe and 2-inch conduit through the levee, 6.2 feet below the crown, slant pump on steel platform on the waterward slope. 4-inch abandoned pipe on the waterside slope. Concrete stand pipe and power pole at landside toe. (App. No. 18258, Wilson 2007) O&M Manual SAC 112, March 1957.<br>FS Date: 08/27/2013 |                      |              |    |                        |               |

Photo 1 of 3 : UCIP\_FA\_2015\_2041.jpg



LS view: 10-inch pipe and air vent on levee slope. Concrete standpipe inside water filtration plant.

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

| LM Start   | 0.70                 | Rating **    | M  | Issue No.              | 995 (cont)    |
|--|----------------------|--------------|----|------------------------|---------------|
| LM End   | 0.70                 | Issue Type + | En | Location *             | WS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 38.336183 °            | 38.336183 °   |
|  |                      |              |    | -121.568383 °          | -121.568383 ° |
| DWR ID   |                      |              |    |                        |               |
| Action/Comments  |                      |              |    |                        |               |
| Inspector Comments: FS_ID:20303<br>DS_ID:22421<br>EP_NO: 16109<br>FS_HLM: 0.7128<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: - 10" steel pipe on both sides of the levee. According to permit and inspectors note- 16" steel pipe through the levee.- concrete standpipe inside water filtration plant on landside toe.- air pressure tank on waterside steel deck.<br>FIELD_STRUCT_DESC: 16 inch steel pipe and 2-inch conduit through the levee, 6.2 feet below the crown, slant pump on steel platform on the waterward slope. 4-inch abandoned pipe on the waterside slope.<br>Concrete stand pipe and power pole at landside toe. (App. No. 18258, Wilson 2007) O&M Manual SAC 112, March 1957.<br>FS Date: 08/27/2013 |                      |              |    |                        |               |

Photo 2 of 3 : UCIP\_FA\_2015\_2042.jpg



WS view: steel pipes and leaky slant pump on steel deck.

| LM Start | 0.70 | Rating **    | M  | Issue No.  | 995 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End   | 0.70 | Issue Type + | En | Location * | WS         |
|          |      |              |    |            |            |

Photo 3 of 3 : UCIP\_FA\_2015\_2043.jpg



WS view: slant pump on steel deck, 4-inch pipe (left) and 10-inch pipe (right) on levee slope.

|  |  |  |   |
|--|--|--|---|
| <b>* Location</b><br>LS : Land Side<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <b>N : Not Inspected/Rated</b><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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>0.71</b>             | Rating **    | M                      | Issue No.     | <b>10</b> |
| LM End          | <b>0.71</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Encroachments           |              | 38.336228 °            | 38.336228 °   |           |
|                 |                         |              | -121.568332 °          | -121.568332 ° |           |
| DWR ID          | DWR_RD0150_02_s_2013_10 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Debris          |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_10\_20150911\_00006.jpg



Debris was found on the waterside slope of the levee looking downstream during Spring 2013 inspection.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>0.97</b>             | Rating **    | M                      | Issue No.     | <b>12</b> |
| LM End          | <b>0.97</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Encroachments           |              | 38.339035 °            | 38.339035 °   |           |
|                 |                         |              | -121.565145 °          | -121.565145 ° |           |
| DWR ID          | DWR_RD0150_02_s_2012_12 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Tree or limb    |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_12\_20150911\_00007.jpg



Overgrown trees were obstructing the landside slope of the levee looking upstream.

|   |                         |              |                        |               |           |
|---|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start  | <b>0.99</b>             | Rating **    | C                      | Issue No.     | <b>18</b> |
| LM End  | <b>0.99</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category  | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|   |                         |              | Start                  | End           |           |
| Item  | Encroachments           |              | 38.339268 °            | 38.339268 °   |           |
|   |                         |              | -121.564839 °          | -121.564839 ° |           |
| DWR ID  | DWR_RD0150_02_s_2013_18 |              |                        |               |           |
| Action/Comments   |                         |              |                        |               |           |
| Tree or limb  |                         |              |                        |               |           |
| Inspector Comments: Tree trunk was found on the waterside toe of the levee. |                         |              |                        |               |           |

No Photos

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side<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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|                 |                        |              |    |                        |               |
|-----------------|------------------------|--------------|----|------------------------|---------------|
| LM Start        | <b>1.14</b>            | Rating **    | N  | Issue No.              | <b>8</b>      |
| LM End          | <b>1.14</b>            | Issue Type + | Ma | Location *             | LS            |
| Category        | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|                 |                        |              |    | Start                  | End           |
| Item            | Trim / Thin Trees      |              |    | 38.340864 °            | 38.340864 °   |
|                 |                        |              |    | -121.562915 °          | -121.562915 ° |
| DWR ID          | DWR_RD0150_02_s_2012_8 |              |    |                        |               |
| Action/Comments |                        |              |    |                        |               |
| Tree stumps.    |                        |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_8\_20150911\_00004.jpg



View of a tree stump on the landward slope.

|                 |                         |              |    |                        |               |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start        | <b>1.26</b>             | Rating **    | M  | Issue No.              | <b>92</b>     |
| LM End          | <b>1.26</b>             | Issue Type + | En | Location *             | LS            |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                 |                         |              |    | Start                  | End           |
| Item            | Vegetation              |              |    | 38.342229 °            | 38.342229 °   |
|                 |                         |              |    | -121.561694 °          | -121.561694 ° |
| DWR ID          | DWR_RD0150_02_s_2012_92 |              |    |                        |               |
| Action/Comments |                         |              |    |                        |               |
| Landscaping     |                         |              |    |                        |               |

No Photos

|                 |                         |              |    |                        |               |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start        | <b>1.32</b>             | Rating **    | U  | Issue No.              | <b>91</b>     |
| LM End          | <b>1.34</b>             | Issue Type + | En | Location *             | LS            |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                 |                         |              |    | Start                  | End           |
| Item            | Vegetation              |              |    | 38.342969 °            | 38.343252 °   |
|                 |                         |              |    | -121.561196 °          | -121.560794 ° |
| DWR ID          | DWR_RD0150_02_s_2012_91 |              |    |                        |               |
| Action/Comments |                         |              |    |                        |               |
| Landscaping     |                         |              |    |                        |               |

Photo 1 of 2 : FA\_2015\_RD0150\_16\_91\_20150911\_00046.jpg



Landscaping was obstructing the view of the landside slope of the levee looking downstream. This picture was taken during spring 2013 inspection.

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|                 |                         |              |    |                        |                  |
|-----------------|-------------------------|--------------|----|------------------------|------------------|
| LM Start        | <b>1.32</b>             | Rating **    | U  | Issue No.              | <b>91 (cont)</b> |
| LM End          | <b>1.34</b>             | Issue Type + | En | Location *             | LS               |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |                  |
|                 |                         |              |    | Start                  | End              |
| Item            | Vegetation              |              |    | 38.342969 °            | 38.343252 °      |
|                 |                         |              |    | -121.561196 °          | -121.560794 °    |
| DWR ID          | DWR_RD0150_02_s_2012_91 |              |    |                        |                  |
| Action/Comments |                         |              |    |                        |                  |
| Landscaping     |                         |              |    |                        |                  |

Photo 2 of 2 : FA\_2015\_RD0150\_16\_91\_20150911\_00047.jpg



Landscaping was found landside of the levee looking upstream.

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>1.34</b>          | Rating **    | M  | Issue No.              | <b>996</b>    |
| LM End   | <b>1.34</b>          | Issue Type + | En | Location *             | LS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 38.343136 °            | 38.343136 °   |
|  |                      |              |    | -121.560868 °          | -121.560868 ° |
| DWR ID   |                      |              |    |                        |               |
| Action/Comments  |                      |              |    |                        |               |
| Inspector Comments: FS_ID:20727<br>DS_ID:22393<br>EP_NO: 18221<br>FS_HLM: 1.358<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: Pump house and drainage ditch about 250 feet from the levee on landside. Pumps on piling structure with shed in drainage ditch. Siphon breaker cover missing. Needs to fix it.<br>FIELD_STRUCT_DESC: 1 of 2: 30-inch pipe (of 30-inch and 24-inch steel pipes), 7.0 feet below the crown replaced 36-inch and 24-inch pipes through the levee, 9.0 and 8.0 feet below the crown respectively. Flap gates on the waterward ends. Siphon breakers on the waterward slope. Pumps on piling structure with shed in drainage ditch. (App. No. 18221 - R.D. No. 150 drainage plant). O&M Manual SAC 112, March 1957.<br>FS Date: 08/27/2013 |                      |              |    |                        |               |

Photo 1 of 3 : UCIP\_FA\_2015\_1720.jpg



WS view: submerged flap gate in the stream.

|  |   |   |
|--|---|---|
| <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><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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

| LM Start   | 1.34                 | Rating **    | M   | Issue No.              | 996 (cont)    |
|--|----------------------|--------------|-----|------------------------|---------------|
| LM End   | 1.34                 | Issue Type + | En  | Location *             | LS            |
| Category   | Supplemental         |              |     | GPS Latitude/Longitude |               |
|  | Start                |              | End |                        |               |
| Item   | DWR UCIP Field Study |              |     | 38.343136 °            | 38.343136 °   |
|  |                      |              |     | -121.560868 °          | -121.560868 ° |
| DWR ID   |                      |              |     |                        |               |
| Action/Comments  |                      |              |     |                        |               |
| Inspector Comments: FS_ID:20727<br>DS_ID:22393<br>EP_NO: 18221<br>FS_HLM: 1.358<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: Pump house and drainage ditch about 250 feet from the levee on landside. Pumps on piling structure with shed in drainage ditch. Siphon breaker cover missing. Needs to fix it.<br>FIELD_STRUCT_DESC: 1 of 2: 30-inch pipe (of 30-inch and 24-inch steel pipes), 7.0 feet below the crown replaced 36-inch and 24-inch pipes through the levee, 9.0 and 8.0 feet below the crown respectively. Flap gates on the waterward ends. Siphon breakers on the waterward slope. Pumps on piling structure with shed in drainage ditch. (App. No. 18221 - R.D. No. 150 drainage plant). O&M Manual SAC 112, March 1957.<br>FS Date: 08/27/2013 |                      |              |     |                        |               |

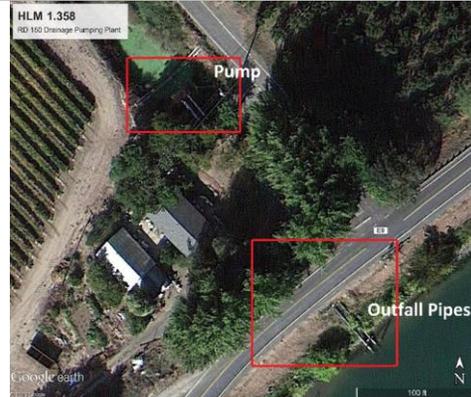
Photo 2 of 3 : UCIP\_FA\_2015\_1721.jpg



WS view: siphon breaker in pipe riser on levee shoulder.

| LM Start | 1.34 | Rating **    | M  | Issue No.  | 996 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End   | 1.34 | Issue Type + | En | Location * | LS         |

Photo 3 of 3 : UCIP\_FA\_2015\_1722.jpg



Bird's eye view: outfall pipes (bottom) and pump structure in drainage ditch (top)

| * Location  | ** Rating   | + Issue Type   |
|---|---|--|
| LS : Land Side<br>WS : Water Side<br>CR : Crown<br>N/A : Not Applicable | A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>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 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|  |                         |              |                        |               |           |
|--|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start   | <b>1.56</b>             | Rating **    | M                      | Issue No.     | <b>53</b> |
| LM End   | <b>1.56</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category   | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|  |                         |              | Start                  | End           |           |
| Item   | Encroachments           |              | 38.344881 °            | 38.344881 °   |           |
|  |                         |              | -121.557524 °          | -121.557524 ° |           |
| DWR ID   | DWR_RD0150_02_f_2015_53 |              |                        |               |           |
| Action/Comments  |                         |              |                        |               |           |
| Pipe<br>Inspector Comments: Abandoned pipes were found on the waterside slope. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_53\_20151119\_00076.jpg



Abandon pipes and debris was found on the waterside of the levee.

|   |                         |              |                        |               |           |
|---|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start  | <b>1.73</b>             | Rating **    | M                      | Issue No.     | <b>48</b> |
| LM End  | <b>1.73</b>             | Issue Type + | En                     | Location *    | WS        |
| Category  | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|   |                         |              | Start                  | End           |           |
| Item  | Encroachments           |              | 38.345583 °            | 38.345583 °   |           |
|   |                         |              | -121.554507 °          | -121.554507 ° |           |
| DWR ID  | DWR_RD0150_02_f_2014_48 |              |                        |               |           |
| Action/Comments   |                         |              |                        |               |           |
| Pole<br>Inspector Comments: A pole was found on the waterside slope of the levee. Most probably is connected to a pump. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_48\_20150911\_00026.jpg



A pole/pipe was found on the waterside slope of the levee looking upstream.

|  |                         |              |                        |               |           |
|--|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start   | <b>1.89</b>             | Rating **    | M                      | Issue No.     | <b>50</b> |
| LM End   | <b>1.89</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category   | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|  |                         |              | Start                  | End           |           |
| Item   | Encroachments           |              | 38.346323 °            | 38.346323 °   |           |
|  |                         |              | -121.551568 °          | -121.551568 ° |           |
| DWR ID   | DWR_RD0150_02_f_2014_50 |              |                        |               |           |
| Action/Comments  |                         |              |                        |               |           |
| Pipe<br>Inspector Comments: An abandoned pipe was found on the waterside of the levee. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_50\_20150911\_00028.jpg



A pipe was found on the waterside toe of the levee looking upstream.

|   |  |   |
|---|--|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|          |                      |              |    |                        |               |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | <b>1.91</b>          | Rating **    | M  | Issue No.              | <b>997</b>    |
| LM End   | <b>1.91</b>          | Issue Type + | En | Location *             | WS            |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |               |
|          |                      |              |    | Start                  | End           |
| Item     | DWR UCIP Field Study |              |    | 38.346448 °            | 38.346448 °   |
|          |                      |              |    | -121.551293 °          | -121.551293 ° |
| DWR ID   |                      |              |    |                        |               |

**Action/Comments**

Inspector Comments: FS\_ID:20348  
 DS\_ID:22395  
 EP\_NO: N/A  
 FS\_HLM: 1.9412  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: - Operating during inspection.- Overhead powerline crossing- CMP riser with siphon breaker needs cleaning.  
 FIELD\_STRUCT\_DESC: 12-inch steel pipe through the levee, 4.0 feet below the crown; pump on the piling in the stream. Power poles on both slopes. Ramp on the landward slope. Siphon breaker on the landward shoulder. (T. Wilson). O&M Manual SAC 112, March 1957.  
 FS Date: 08/27/2013

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>1.91</b> | Rating **    | M  | Issue No.  | <b>997 (cont)</b> |
| LM End   | <b>1.91</b> | Issue Type + | En | Location * | WS                |

Photo 1 of 3 : UCIP\_FA\_2015\_1943.jpg



LS view: concrete distribution box on levee toe.

Photo 2 of 3 : UCIP\_FA\_2015\_1944.jpg



WS view: pipe & pump on piling structure in the stream.

|  |  |  |   |
|--|--|--|---|
| <b>* Location</b><br>LS : Land Side<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <b>N : Not Inspected/Rated</b><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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|   |                      |              |    |                        |                   |
|---|----------------------|--------------|----|------------------------|-------------------|
| LM Start  | <b>1.91</b>          | Rating **    | M  | Issue No.              | <b>997 (cont)</b> |
| LM End  | <b>1.91</b>          | Issue Type + | En | Location *             | WS                |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |                   |
|   |                      |              |    | Start                  | End               |
| Item  | DWR UCIP Field Study |              |    | 38.346448 °            | 38.346448 °       |
|   |                      |              |    | -121.551293 °          | -121.551293 °     |
| DWR ID  |                      |              |    |                        |                   |
| Action/Comments   |                      |              |    |                        |                   |
| Inspector Comments: FS_ID:20348<br>DS_ID:22395<br>EP_NO: N/A<br>FS_HLM: 1.9412<br>Repair Type: Non-Urgent<br>Crossing Status: Found |                      |              |    |                        |                   |

Photo 3 of 3 : UCIP\_FA\_2015\_1945.jpg



WS view: service pole, pipe & pump on piling structure in the stream.

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>1.93</b>             | Rating **    | C  | Issue No.              | <b>52</b>     |
| LM End  | <b>1.93</b>             | Issue Type + | Ma | Location *             | WS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Slope Stability         |              |    | 38.346462 °            | 38.346462 °   |
|   |                         |              |    | -121.550978 °          | -121.550978 ° |
| DWR ID  | DWR_RD0150_02_f_2014_52 |              |    |                        |               |
| Action/Comments   |                         |              |    |                        |               |
| Repair the levee slope damaged by vehicle traffic and prevent access where possible.<br>Inspector Comments: Rutting caused by vehicles. |                         |              |    |                        |               |

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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|          |                      |              |    |                        |               |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | <b>2.14</b>          | Rating **    | M  | Issue No.              | <b>998</b>    |
| LM End   | <b>2.14</b>          | Issue Type + | En | Location *             | WS            |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |               |
|          |                      |              |    | Start                  | End           |
| Item     | DWR UCIP Field Study |              |    | 38.347032 °            | 38.347032 °   |
|          |                      |              |    | -121.547159 °          | -121.547159 ° |
| DWR ID   |                      |              |    |                        |               |

**Action/Comments**

Inspector Comments: FS\_ID:20731  
 DS\_ID:22396  
 EP\_NO: N/A  
 FS\_HLM: 2.173  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: - Operating during inspection. Leaky join at the concrete box.- Power overhead crossing. Power pole at waterside shoulder, and landside toe.  
 FIELD\_STRUCT\_DESC: 12-inch steel pipe through the levee, 5.0 feet below the crown, slant pump on the waterward slope. Power pole on the waterward shoulder. (Wilcox) O&M Manual SAC 112, March 1957.  
 FS Date: 08/27/2013

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>2.14</b> | Rating **    | M  | Issue No.  | <b>998 (cont)</b> |
| LM End   | <b>2.14</b> | Issue Type + | En | Location * | WS                |

Photo 1 of 2 : UCIP\_FA\_2015\_1723.jpg



LS view: concrete distribution box on levee toe and exposed steel pipe on levee slope.

Photo 2 of 2 : UCIP\_FA\_2015\_1724.jpg



WS view: slant pump on steel frame support and exposed pipe on 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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>2.28</b>             | Rating **    | M                      | Issue No.     | <b>88</b> |
| LM End          | <b>2.30</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Vegetation              |              | 38.347355 °            | 38.347361 °   |           |
|                 |                         |              | -121.544628 °          | -121.544280 ° |           |
| DWR ID          | DWR_RD0150_02_s_2012_88 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Landscaping     |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_88\_20150911\_00045.jpg



Landscaping was found on the landside of the levee. The picture was taken from the crown looking upstream.

|  |                         |              |                        |               |           |
|--|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start   | <b>2.70</b>             | Rating **    | M                      | Issue No.     | <b>23</b> |
| LM End   | <b>2.70</b>             | Issue Type + | En                     | Location *    | LS        |
| Category   | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|  |                         |              | Start                  | End           |           |
| Item   | Encroachments           |              | 38.349542 °            | 38.349542 °   |           |
|  |                         |              | -121.537451 °          | -121.537451 ° |           |
| DWR ID   | DWR_RD0150_02_s_2012_23 |              |                        |               |           |
| Action/Comments  |                         |              |                        |               |           |
| Tank<br>Inspector Comments: Tank was found within the 10 feet landside easement. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_23\_20150911\_00015.jpg



A tank was found on the landside toe of the levee looking upstream.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>2.75</b>             | Rating **    | N                      | Issue No.     | <b>14</b> |
| LM End          | <b>2.75</b>             | Issue Type + | Ma                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Trim / Thin Trees       |              | 38.350041 °            | 38.350041 °   |           |
|                 |                         |              | -121.536853 °          | -121.536853 ° |           |
| DWR ID          | DWR_RD0150_02_s_2012_14 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Tree stumps.    |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_14\_20150911\_00009.jpg



View of a tree stump on the landward slope.

|  |  |  |   |
|--|--|--|---|
| <b>* Location</b><br>LS : Land Side<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <b>N : Not Inspected/Rated</b><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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|          |                      |              |    |                        |               |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | <b>2.84</b>          | Rating **    | U  | Issue No.              | <b>999</b>    |
| LM End   | <b>2.84</b>          | Issue Type + | En | Location *             | LS            |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |               |
|          |                      |              |    | Start                  | End           |
| Item     | DWR UCIP Field Study |              |    | 38.350911 °            | 38.350911 °   |
|          |                      |              |    | -121.535653 °          | -121.535653 ° |
| DWR ID   |                      |              |    |                        |               |

**Action/Comments**

Inspector Comments: FS\_ID:20732  
 DS\_ID:22401  
 EP\_NO: N/A  
 FS\_HLM: 2.886  
 Repair Type: Urgent  
 Crossing Status: Found  
 UCIP Comments: - 2" conduit on WS- depression on LS slope- new replacement pipe on both sides- old pipe, pump and piling structure abandoned.  
 FIELD\_STRUCT\_DESC: 10-inch steel pipe through the levee, 5.8 feet below the crown; pump on piling in stream. A 2-inch electric conduit on waterside. Service pole and concrete standpipe at the toe of the landward slope. (A. E. Green) O&M Manual SAC 112, March 1957.  
 FS Date: 08/27/2013

Photo 1 of 3 : UCIP\_FA\_2015\_1725.jpg



WS view: pipe, electric conduit (left), and pump on levee slope.

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>2.84</b> | Rating **    | U  | Issue No.  | <b>999 (cont)</b> |
| LM End   | <b>2.84</b> | Issue Type + | En | Location * | LS                |

Photo 2 of 3 : UCIP\_FA\_2015\_1726.jpg



WS view: air vent on steel pipe on levee slope. Electric conduit over pipe (right)

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|  |                      |              |    |                        |                   |
|--|----------------------|--------------|----|------------------------|-------------------|
| LM Start   | <b>2.84</b>          | Rating **    | U  | Issue No.              | <b>999 (cont)</b> |
| LM End   | <b>2.84</b>          | Issue Type + | En | Location *             | LS                |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |                   |
|  |                      |              |    | Start                  | End               |
| Item   | DWR UCIP Field Study |              |    | 38.350911 °            | 38.350911 °       |
|  |                      |              |    | -121.535653 °          | -121.535653 °     |
| DWR ID   |                      |              |    |                        |                   |
| Action/Comments  |                      |              |    |                        |                   |
| Inspector Comments: FS_ID:20732<br>DS_ID:22401<br>EP_NO: N/A<br>FS_HLM: 2.886<br>Repair Type: Urgent<br>Crossing Status: Found |                      |              |    |                        |                   |

Photo 3 of 3 : UCIP\_FA\_2015\_1727.jpg



WS view: walkway steps, pipe, and pump on levee slope.

|                 |                         |              |    |                        |               |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start        | <b>2.97</b>             | Rating **    | U  | Issue No.              | <b>85</b>     |
| LM End          | <b>3.01</b>             | Issue Type + | En | Location *             | LS            |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                 |                         |              |    | Start                  | End           |
| Item            | Vegetation              |              |    | 38.352372 °            | 38.352802 °   |
|                 |                         |              |    | -121.534127 °          | -121.533638 ° |
| DWR ID          | DWR_RD0150_02_s_2012_85 |              |    |                        |               |
| Action/Comments |                         |              |    |                        |               |
| Landscaping     |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_85\_20150911\_00044.jpg



Landscaping providing a screen for a residence on the landside of levee.

|   |                          |              |    |                        |               |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>3.24</b>              | Rating **    | M  | Issue No.              | <b>961</b>    |
| LM End  | <b>3.24</b>              | Issue Type + | Ma | Location *             | WS            |
| Category  | Earthen Levee            |              |    | GPS Latitude/Longitude |               |
|   |                          |              |    | Start                  | End           |
| Item  | Erosion / Bank Caving    |              |    | 38.355321 °            | 38.355321 °   |
|   |                          |              |    | -121.530902 °          | -121.530902 ° |
| DWR ID  | DWR_RD0150_02_s_2012_961 |              |    |                        |               |
| Action/Comments   |                          |              |    |                        |               |
| Schedule repair of erosion site prior to the next inspection.<br>Inspector Comments: Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed. |                          |              |    |                        |               |

Photo 1 of 5 : FA\_2015\_RD0150\_16\_961\_20150911\_00050.jpg



Updated picture of the erosion on the waterside of the levee during spring 2015 inspection.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side<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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|   |                          |              |    |                        |                   |
|---|--------------------------|--------------|----|------------------------|-------------------|
| LM Start  | <b>3.24</b>              | Rating **    | M  | Issue No.              | <b>961 (cont)</b> |
| LM End  | <b>3.24</b>              | Issue Type + | Ma | Location *             | WS                |
| Category  | Earthen Levee            |              |    | GPS Latitude/Longitude |                   |
|   |                          |              |    | Start                  | End               |
| Item  | Erosion / Bank Caving    |              |    | 38.355321 °            | 38.355321 °       |
|   |                          |              |    | -121.530902 °          | -121.530902 °     |
| DWR ID  | DWR_RD0150_02_s_2012_961 |              |    |                        |                   |
| Action/Comments   |                          |              |    |                        |                   |
| Schedule repair of erosion site prior to the next inspection.<br>Inspector Comments: Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed. |                          |              |    |                        |                   |

Photo 2 of 5 : FA\_2015\_RD0150\_16\_961\_20150911\_00051.jpg



View of the erosion on the waterside slope of the levee near the pipe looking downstream. This picture was taken during the fall 2013 inspection.

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>3.24</b> | Rating **    | M  | Issue No.  | <b>961 (cont)</b> |
| LM End   | <b>3.24</b> | Issue Type + | Ma | Location * | WS                |

Photo 3 of 5 : FA\_2015\_RD0150\_16\_961\_20150911\_00052.jpg



View of the erosion on the waterside slope of the levee looking upstream during spring 2013 inspection.

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|   |                          |              |    |                        |                   |
|---|--------------------------|--------------|----|------------------------|-------------------|
| LM Start  | <b>3.24</b>              | Rating **    | M  | Issue No.              | <b>961 (cont)</b> |
| LM End  | <b>3.24</b>              | Issue Type + | Ma | Location *             | WS                |
| Category  | Earthen Levee            |              |    | GPS Latitude/Longitude |                   |
|   |                          |              |    | Start                  | End               |
| Item  | Erosion / Bank Caving    |              |    | 38.355321 °            | 38.355321 °       |
|   |                          |              |    | -121.530902 °          | -121.530902 °     |
| DWR ID  | DWR_RD0150_02_s_2012_961 |              |    |                        |                   |
| Action/Comments   |                          |              |    |                        |                   |
| Schedule repair of erosion site prior to the next inspection.<br>Inspector Comments: Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed. |                          |              |    |                        |                   |

Photo 4 of 5 : FA\_2015\_RD0150\_16\_961\_20150911\_00053.jpg



View of erosion and damaged pipe and abandoned boat on the waterside of the levee looking upstream. This picture was taken during fall 2012 inspection.

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>3.24</b> | Rating **    | M  | Issue No.  | <b>961 (cont)</b> |
| LM End   | <b>3.24</b> | Issue Type + | Ma | Location * | WS                |

Photo 5 of 5 : FA\_2015\_RD0150\_16\_961\_20150911\_00054.jpg



View of the erosion site, and broken pump support along with a boat on the waterside of the levee. The picture was taken from the crown looking towards the toe of the levee during fall 2011 inspection.

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>3.24</b>          | Rating **    | M  | Issue No.              | <b>1000</b>   |
| LM End   | <b>3.24</b>          | Issue Type + | En | Location *             | WS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 38.355360 °            | 38.355360 °   |
|  |                      |              |    | -121.530838 °          | -121.530838 ° |
| DWR ID   |                      |              |    |                        |               |
| Action/Comments  |                      |              |    |                        |               |
| Inspector Comments: FS_ID:20736<br>DS_ID:22402<br>EP_NO: N/A<br>FS_HLM: 3.296<br>Repair Type: Non-Urgent<br>Crossing Status: Found |                      |              |    |                        |               |

Photo 1 of 3 : UCIP\_FA\_2015\_1812.jpg



WS view: pipe and pump on levee slope. Gate valve and air vent on the pipe.

|          |             |              |    |            |                    |
|----------|-------------|--------------|----|------------|--------------------|
| LM Start | <b>3.24</b> | Rating **    | M  | Issue No.  | <b>1000 (cont)</b> |
| LM End   | <b>3.24</b> | Issue Type + | En | Location * | WS                 |

Photo 2 of 3 : UCIP\_FA\_2015\_1813.jpg



WS view: steel pipe and GI conduit on 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 | 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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|  |                      |              |    |                        |                    |
|--|----------------------|--------------|----|------------------------|--------------------|
| LM Start   | <b>3.24</b>          | Rating **    | M  | Issue No.              | <b>1000 (cont)</b> |
| LM End   | <b>3.24</b>          | Issue Type + | En | Location *             | WS                 |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |                    |
|  |                      |              |    | Start                  | End                |
| Item   | DWR UCIP Field Study |              |    | 38.355360 °            | 38.355360 °        |
|  |                      |              |    | -121.530838 °          | -121.530838 °      |
| DWR ID   |                      |              |    |                        |                    |
| <b>Action/Comments</b>   |                      |              |    |                        |                    |
| Inspector Comments: FS_ID:20736<br>DS_ID:22402<br>EP_NO: N/A<br>FS_HLM: 3.296<br>Repair Type: Non-Urgent<br>Crossing Status: Found |                      |              |    |                        |                    |

Photo 3 of 3 : UCIP\_FA\_2015\_1814.jpg



WS view: pipe, conduit and pump on levee slope.

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>3.30</b>             | Rating **    | M  | Issue No.              | <b>17</b>     |
| LM End   | <b>3.30</b>             | Issue Type + | Ma | Location *             | LS            |
| Category   | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item   | Vegetation              |              |    | 38.355979 °            | 38.355979 °   |
|  |                         |              |    | -121.530288 °          | -121.530288 ° |
| DWR ID   | DWR_RD0150_02_s_2012_17 |              |    |                        |               |
| <b>Action/Comments</b>   |                         |              |    |                        |               |
| Elderberries are blocking visibility and flood fight capability.<br>Inspector Comments: Elderberry is partially blocking the visibility. |                         |              |    |                        |               |

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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>3.50</b>          | Rating **    | M  | Issue No.              | <b>1001</b>   |
| LM End   | <b>3.50</b>          | Issue Type + | En | Location *             | LS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 38.358094 °            | 38.358094 °   |
|  |                      |              |    | -121.527619 °          | -121.527619 ° |
| DWR ID   |                      |              |    |                        |               |
| <b>Action/Comments</b>   |                      |              |    |                        |               |
| Inspector Comments: FS_ID:19846<br>DS_ID:22403<br>EP_NO: N/A<br>FS_HLM: 3.5567<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: - 8" pvc pipe sleeved into 12" steel pipe.- needs filling/grouting in gas between 8" pvc pipe and 12" steel pipe on WS.- 1.5" electric conduit on WS- 10" steel pipe extended to 8" pvc pipe on landside levee toe.<br>FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 3.0 feet below the crown, pump and gate valve on the waterward slope. (R & J Pylman). O&M Manual SAC 112, March 1957.<br>FS Date: 08/30/2013 |                      |              |    |                        |               |

Photo 1 of 3 : UCIP\_FA\_2015\_1820.jpg



LS view: exposed pipe on levee slope and standpipe on the toe.

|          |             |              |    |            |                    |
|----------|-------------|--------------|----|------------|--------------------|
| LM Start | <b>3.50</b> | Rating **    | M  | Issue No.  | <b>1001 (cont)</b> |
| LM End   | <b>3.50</b> | Issue Type + | En | Location * | LS                 |

Photo 2 of 3 : UCIP\_FA\_2015\_1821.jpg



WS view: steel conduit (right); 8" pvc pipe sleeved into 12" steel pipe.

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|   |                      |              |    |                        |                    |
|---|----------------------|--------------|----|------------------------|--------------------|
| LM Start  | <b>3.50</b>          | Rating **    | M  | Issue No.              | <b>1001 (cont)</b> |
| LM End  | <b>3.50</b>          | Issue Type + | En | Location *             | LS                 |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |                    |
|   |                      |              |    | Start                  | End                |
| Item  | DWR UCIP Field Study |              |    | 38.358094 °            | 38.358094 °        |
|   |                      |              |    | -121.527619 °          | -121.527619 °      |
| DWR ID  |                      |              |    |                        |                    |
| Action/Comments   |                      |              |    |                        |                    |
| Inspector Comments: FS_ID:19846<br>DS_ID:22403<br>EP_NO: N/A<br>FS_HLM: 3.5567<br>Repair Type: Non-Urgent<br>Crossing Status: Found |                      |              |    |                        |                    |

Photo 3 of 3 : UCIP\_FA\_2015\_1822.jpg



WS view: pipe, pump, and conduit on levee slope.

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>3.51</b>             | Rating **    | M  | Issue No.              | <b>15</b>     |
| LM End  | <b>3.51</b>             | Issue Type + | En | Location *             | CR            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Encroachments           |              |    | 38.358152 °            | 38.358152 °   |
|   |                         |              |    | -121.527579 °          | -121.527579 ° |
| DWR ID  | DWR_RD0150_02_s_2012_15 |              |    |                        |               |
| Action/Comments   |                         |              |    |                        |               |
| Pipe<br>Inspector Comments: PVC pipe is sleeving through an old steel pipe. The steel pipe appears to be fine for now, but we should keep an eye on it. |                         |              |    |                        |               |

Photo 1 of 2 : FA\_2015\_RD0150\_16\_15\_20150911\_00010.jpg



A PVC pipe was used to pump the water from waterside of the levee. It appeared that the PVC pipe was penetrating through a corroded steel casing through the levee crown. The picture was taken from the crown of the levee looking upstream during spring 2013 inspection.

|  |   |   |
|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|   |                         |              |    |                        |                  |
|---|-------------------------|--------------|----|------------------------|------------------|
| LM Start  | <b>3.51</b>             | Rating **    | M  | Issue No.              | <b>15 (cont)</b> |
| LM End  | <b>3.51</b>             | Issue Type + | En | Location *             | CR               |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |                  |
|   |                         |              |    | Start                  | End              |
| Item  | Encroachments           |              |    | 38.358152 °            | 38.358152 °      |
|   |                         |              |    | -121.527579 °          | -121.527579 °    |
| DWR ID  | DWR_RD0150_02_s_2012_15 |              |    |                        |                  |
| Action/Comments   |                         |              |    |                        |                  |
| Pipe<br>Inspector Comments: PVC pipe is sleeving through an old steel pipe. The steel pipe appears to be fine for now, but we should keep an eye on it. |                         |              |    |                        |                  |

Photo 2 of 2 : FA\_2015\_RD0150\_16\_15\_20150911\_00011.jpg



A PVC pipe was used under the levee crown for irrigation purpose. The picture was taken from the crown looking downstream.

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>3.51</b>          | Rating **    | M  | Issue No.              | <b>1002</b>   |
| LM End   | <b>3.51</b>          | Issue Type + | En | Location *             | CR            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 38.358131 °            | 38.358131 °   |
|  |                      |              |    | -121.527540 °          | -121.527540 ° |
| DWR ID   |                      |              |    |                        |               |
| Action/Comments  |                      |              |    |                        |               |
| Inspector Comments: FS_ID:19848<br>DS_ID:22404<br>EP_NO: N/A<br>FS_HLM: 3.5619<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: - needs proper abandonment.<br>FIELD_STRUCT_DESC: *ABANDONED* 4-inch steel pipe on landward slope. 1-inch steel conduit on waterward slope found.<br>FS Date: 08/30/2013 |                      |              |    |                        |               |

Photo 1 of 3 : UCIP\_FA\_2015\_1823.jpg



LS view: abandoned 4-inch steel pipe on levee slope.

|  |  |   |
|--|--|---|
| <b>* Location</b><br>LS : Land Side<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

| LM Start   | 3.51                 | Rating **    | M  | Issue No.              | 1002 (cont)   |
|--|----------------------|--------------|----|------------------------|---------------|
| LM End   | 3.51                 | Issue Type + | En | Location *             | CR            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 38.358131 °            | 38.358131 °   |
|  |                      |              |    | -121.527540 °          | -121.527540 ° |
| DWR ID   |                      |              |    |                        |               |
| Action/Comments  |                      |              |    |                        |               |
| Inspector Comments: FS_ID:19848<br>DS_ID:22404<br>EP_NO: N/A<br>FS_HLM: 3.5619<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: - needs proper abandonment.<br>FIELD_STRUCT_DESC: *ABANDONED* 4-inch steel pipe on landward slope. 1-inch steel conduit on waterward slope found.<br>FS Date: 08/30/2013 |                      |              |    |                        |               |

Photo 2 of 3 : UCIP\_FA\_2015\_1905.jpg



LS view: exposed 4-inch steel pipe on levee slope.

| LM Start | 3.51 | Rating **    | M  | Issue No.  | 1002 (cont) |
|----------|------|--------------|----|------------|-------------|
| LM End   | 3.51 | Issue Type + | En | Location * | CR          |

Photo 3 of 3 : UCIP\_FA\_2015\_1906.jpg



WS view: abandoned 1-inch conduit on 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 | <b>N : Not Inspected/Rated</b><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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

|                              |       |            |                          |            |
|------------------------------|-------|------------|--------------------------|------------|
| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>3.54</b>             | Rating **    | U                      | Issue No.     | <b>82</b> |
| LM End          | <b>3.67</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Vegetation              |              | 38.358565 °            | 38.359729 °   |           |
|                 |                         |              | -121.527153 °          | -121.525345 ° |           |
| DWR ID          | DWR_RD0150_02_s_2012_82 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Landscaping     |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_82\_20150911\_00043.jpg



Landscaping was blocking the visibility on the landside of the levee looking upstream.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>3.84</b>             | Rating **    | M                      | Issue No.     | <b>80</b> |
| LM End          | <b>3.86</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Vegetation              |              | 38.361419 °            | 38.361752 °   |           |
|                 |                         |              | -121.523225 °          | -121.522974 ° |           |
| DWR ID          | DWR_RD0150_02_s_2012_80 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Landscaping     |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_80\_20150911\_00042.jpg



Landscaping in front of a residence on landside of levee from LM 3.90 to LM 3.93. The levee in this location is greater than 100' wide.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>3.88</b>             | Rating **    | M                      | Issue No.     | <b>33</b> |
| LM End          | <b>3.88</b>             | Issue Type + | En                     | Location *    | WS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Encroachments           |              | 38.361970 °            | 38.361970 °   |           |
|                 |                         |              | -121.522777 °          | -121.522777 ° |           |
| DWR ID          | DWR_RD0150_02_s_2012_33 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Stairway        |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_33\_20150911\_00021.jpg



A stairway was found on the waterside slope of the levee.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side<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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|   |                         |              |                        |               |           |
|---|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start  | <b>4.08</b>             | Rating **    | M                      | Issue No.     | <b>20</b> |
| LM End  | <b>4.10</b>             | Issue Type + | En                     | Location *    | LS        |
| Category  | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|   |                         |              | Start                  | End           |           |
| Item  | Encroachments           |              | 38.364854 °            | 38.365104 °   |           |
|   |                         |              | -121.522378 °          | -121.522365 ° |           |
| DWR ID  | DWR_RD0150_02_s_2012_20 |              |                        |               |           |
| Action/Comments   |                         |              |                        |               |           |
| Building<br>Inspector Comments: 3' retaining wall at the landward shoulder. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_20\_20150911\_00014.jpg



View of a retaining wall on the landward slope looking upstream.

|                 |                          |              |                        |               |            |
|-----------------|--------------------------|--------------|------------------------|---------------|------------|
| LM Start        | <b>4.10</b>              | Rating **    | M                      | Issue No.     | <b>953</b> |
| LM End          | <b>4.10</b>              | Issue Type + | En                     | Location *    | LS         |
| Category        | Earthen Levee            |              | GPS Latitude/Longitude |               |            |
|                 |                          |              | Start                  | End           |            |
| Item            | Vegetation               |              | 38.365162 °            | 38.365162 °   |            |
|                 |                          |              | -121.522365 °          | -121.522365 ° |            |
| DWR ID          | DWR_RD0150_02_s_2012_953 |              |                        |               |            |
| Action/Comments |                          |              |                        |               |            |
| Landscaping     |                          |              |                        |               |            |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_953\_20150911\_00049.jpg



View of cacti on the landside of the levee looking from the crown.

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|  |                      |              |    |                        |                    |
|--|----------------------|--------------|----|------------------------|--------------------|
| LM Start   | <b>4.17</b>          | Rating **    | M  | Issue No.              | <b>1003 (cont)</b> |
| LM End   | <b>4.17</b>          | Issue Type + | En | Location *             | LS                 |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |                    |
|  |                      |              |    | Start                  | End                |
| Item   | DWR UCIP Field Study |              |    | 38.366149 °            | 38.366149 °        |
|  |                      |              |    | -121.522352 °          | -121.522352 °      |
| DWR ID   |                      |              |    |                        |                    |
| Action/Comments  |                      |              |    |                        |                    |
| Inspector Comments: FS_ID:42702<br>DS_ID:22407<br>EP_NO: 13505<br>FS_HLM: 4.238<br>Repair Type: Non-Urgent<br>Crossing Status: Found |                      |              |    |                        |                    |

Photo 3 of 3 : UCIP\_FA\_2015\_1942.jpg



WS view: slanted pump on levee slope.

|                 |                         |              |    |                        |               |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start        | <b>4.26</b>             | Rating **    | U  | Issue No.              | <b>24</b>     |
| LM End          | <b>4.28</b>             | Issue Type + | En | Location *             | LS            |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                 |                         |              |    | Start                  | End           |
| Item            | Vegetation              |              |    | 38.367442 °            | 38.367740 °   |
|                 |                         |              |    | -121.522427 °          | -121.522495 ° |
| DWR ID          | DWR_RD0150_02_s_2012_24 |              |    |                        |               |
| Action/Comments |                         |              |    |                        |               |
| Landscaping     |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_24\_20150911\_00016.jpg



Landscaping (Oleander) on landward slope from 4.33 to 4.35

|                 |                         |              |    |                        |               |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start        | <b>4.30</b>             | Rating **    | U  | Issue No.              | <b>79</b>     |
| LM End          | <b>4.34</b>             | Issue Type + | En | Location *             | LS            |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                 |                         |              |    | Start                  | End           |
| Item            | Vegetation              |              |    | 38.368036 °            | 38.368540 °   |
|                 |                         |              |    | -121.522611 °          | -121.522729 ° |
| DWR ID          | DWR_RD0150_02_s_2012_79 |              |    |                        |               |
| Action/Comments |                         |              |    |                        |               |
| Landscaping     |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_79\_20150911\_00041.jpg



Trees were obstructing the views on the landside slope of the levee looking downstream.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|   |                                  |              |    |                        |               |
|---|----------------------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>4.50</b>                      | Rating **    | M  | Issue No.              | <b>1</b>      |
| LM End  | <b>4.57</b>                      | Issue Type + | Ma | Location *             | WS            |
| Category  | Supplemental                     |              |    | GPS Latitude/Longitude |               |
|   |                                  |              |    | Start                  | End           |
| Item  | 2015 USACE Erosion Survey, DRAFT |              |    | 38.370928 °            | 38.371909 °   |
|   |                                  |              |    | -121.523069 °          | -121.523316 ° |
| DWR ID  |                                  |              |    |                        |               |
| Action/Comments   |                                  |              |    |                        |               |
| Inspector Comments: 1999 - Downstream end (300 ft) repaired with rock. 2010 - Toe erosion, some vertical slopes lower down. 2011 - Failing rock repair. Slumping of the lower bank. Minor new erosion. 2013 - Tree at upstream end has exposed roots. Some new erosion. 2015: No observed changes. [2015 Site ID: SAC_38-5_R] |                                  |              |    |                        |               |

No Photos

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>4.69</b>             | Rating **    | M  | Issue No.              | <b>28</b>     |
| LM End  | <b>4.69</b>             | Issue Type + | Ma | Location *             | WS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Vegetation              |              |    | 38.373485 °            | 38.373485 °   |
|   |                         |              |    | -121.523963 °          | -121.523963 ° |
| DWR ID  | DWR_RD0150_02_s_2012_28 |              |    |                        |               |
| Action/Comments   |                         |              |    |                        |               |
| Remove the wild growth other than native grasses from the levee slopes. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_28\_20150911\_00018.jpg



Century plant on waterward slope at LM 4.76

|                 |                         |              |    |                        |               |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start        | <b>4.70</b>             | Rating **    | U  | Issue No.              | <b>76</b>     |
| LM End          | <b>4.72</b>             | Issue Type + | En | Location *             | LS            |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                 |                         |              |    | Start                  | End           |
| Item            | Vegetation              |              |    | 38.373688 °            | 38.373970 °   |
|                 |                         |              |    | -121.524280 °          | -121.524403 ° |
| DWR ID          | DWR_RD0150_02_s_2012_76 |              |    |                        |               |
| Action/Comments |                         |              |    |                        |               |
| Landscaping     |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_76\_20150911\_00040.jpg



Trees were obstructing the view of the landside slope of the levee looking upstream.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|   |                         |              |                        |               |           |
|---|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start  | <b>4.85</b>             | Rating **    | M                      | Issue No.     | <b>69</b> |
| LM End  | <b>4.85</b>             | Issue Type + | En                     | Location *    | WS        |
| Category  | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|   |                         |              | Start                  | End           |           |
| Item  | Encroachments           |              | 38.375731 °            | 38.375731 °   |           |
|   |                         |              | -121.525245 °          | -121.525245 ° |           |
| DWR ID  | DWR_RD0150_02_f_2013_69 |              |                        |               |           |
| Action/Comments   |                         |              |                        |               |           |
| Pipe<br>Inspector Comments: The pipe cover is not a water tight connection. During high water, water may leak through the pipe and get into the landside. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_69\_20150911\_00038.jpg



The pipe cover doesn't appear to be water tight on the waterside slope of the levee. The picture was taken from the crown looking towards the toe of the levee during fall 2013 inspection.

|                             |                         |              |                        |               |           |
|-----------------------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start                    | <b>5.06</b>             | Rating **    | A/W                    | Issue No.     | <b>40</b> |
| LM End                      | <b>7.81</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category                    | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                             |                         |              | Start                  | End           |           |
| Item                        | Vegetation              |              | 38.378674 °            | 38.414029 °   |           |
|                             |                         |              | -121.525423 °          | -121.522991 ° |           |
| DWR ID                      | DWR_RD0150_02_s_2012_40 |              |                        |               |           |
| Action/Comments             |                         |              |                        |               |           |
| Environmental Requirements. |                         |              |                        |               |           |

No Photos

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>5.06</b>             | Rating **    | M                      | Issue No.     | <b>30</b> |
| LM End          | <b>5.09</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Vegetation              |              | 38.378715 °            | 38.379052 °   |           |
|                 |                         |              | -121.525458 °          | -121.525341 ° |           |
| DWR ID          | DWR_RD0150_02_s_2012_30 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Landscaping     |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_30\_20150911\_00019.jpg



Landscaping was found on the landside shoulder of the levee looking upstream.

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>5.09</b>             | Rating **    | M                      | Issue No.     | <b>75</b> |
| LM End          | <b>5.14</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Vegetation              |              | 38.379054 °            | 38.379769 °   |           |
|                 |                         |              | -121.525341 °          | -121.525024 ° |           |
| DWR ID          | DWR_RD0150_02_s_2012_75 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Landscaping     |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_75\_20150911\_00039.jpg



View of landscaping along the landward shoulder and slope looking downstream.

|  |                      |              |                        |               |             |
|--|----------------------|--------------|------------------------|---------------|-------------|
| LM Start   | <b>5.24</b>          | Rating **    | M                      | Issue No.     | <b>1004</b> |
| LM End   | <b>5.24</b>          | Issue Type + | En                     | Location *    | LS          |
| Category   | Supplemental         |              | GPS Latitude/Longitude |               |             |
|  |                      |              | Start                  | End           |             |
| Item   | DWR UCIP Field Study |              | 38.381079 °            | 38.381079 °   |             |
|  |                      |              | -121.524166 °          | -121.524166 ° |             |
| DWR ID   |                      |              |                        |               |             |
| Action/Comments  |                      |              |                        |               |             |
| Inspector Comments: FS_ID:20740<br>DS_ID:22410<br>EP_NO: N/A<br>FS_HLM: 5.324<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: - 2" electric conduit and gate valve on WS.- abandoned old pump not removed from WS- working during field survey<br>FIELD_STRUCT_DESC: 12-inch pipe and 2-inch electric conduit through the levee, 3.0 feet below the crown. Service pole and standpipe at the toe of the landward slope. (C. Sakai) O&M Manual SAC 112, March 1957.<br>FS Date: 08/30/2013 |                      |              |                        |               |             |

Photo 1 of 3 : UCIP\_FA\_2015\_1870.jpg



WS view: steel steps to pump platform, exposed steel pipe, and electric conduit on 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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|          |                      |              |    |                        |                    |
|----------|----------------------|--------------|----|------------------------|--------------------|
| LM Start | <b>5.24</b>          | Rating **    | M  | Issue No.              | <b>1004 (cont)</b> |
| LM End   | <b>5.24</b>          | Issue Type + | En | Location *             | LS                 |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |                    |
|          |                      |              |    | Start                  | End                |
| Item     | DWR UCIP Field Study |              |    | 38.381079 °            | 38.381079 °        |
|          |                      |              |    | -121.524166 °          | -121.524166 °      |
| DWR ID   |                      |              |    |                        |                    |

**Action/Comments**

Inspector Comments: FS\_ID:20740  
 DS\_ID:22410  
 EP\_NO: N/A  
 FS\_HLM: 5.324  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: - 2" electric conduit and gate valve on WS.- abandoned old pump not removed from WS- working during field survey  
 FIELD\_STRUCT\_DESC: 12-inch pipe and 2-inch electric conduit through the levee, 3.0 feet below the crown. Service pole and standpipe at the toe of the landward slope. (C. Sakai) O&M Manual SAC 112, March 1957.  
 FS Date: 08/30/2013

|          |             |              |    |            |                    |
|----------|-------------|--------------|----|------------|--------------------|
| LM Start | <b>5.24</b> | Rating **    | M  | Issue No.  | <b>1004 (cont)</b> |
| LM End   | <b>5.24</b> | Issue Type + | En | Location * | LS                 |

Photo 2 of 3 : UCIP\_FA\_2015\_1871.jpg



WS view: pipe, slant pump & pump platform on stream bank.

Photo 3 of 3 : UCIP\_FA\_2015\_1872.jpg



WS view: pipe, walkway, slant pump & pump platform on stream bank.

|   |  |   |
|---|--|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|   |                          |              |                        |               |            |
|---|--------------------------|--------------|------------------------|---------------|------------|
| LM Start  | <b>5.24</b>              | Rating **    | M                      | Issue No.     | <b>975</b> |
| LM End  | <b>5.24</b>              | Issue Type + | Ma                     | Location *    | WS         |
| Category  | Earthen Levee            |              | GPS Latitude/Longitude |               |            |
|   |                          |              | Start                  | End           |            |
| Item  | Slope Stability          |              | 38.381126 °            | 38.381126 °   |            |
|   |                          |              | -121.524207 °          | -121.524207 ° |            |
| DWR ID  | DWR_RD0150_02_s_2013_975 |              |                        |               |            |
| Action/Comments   |                          |              |                        |               |            |
| Repair slope instability.<br>Inspector Comments: Depression in the waterward slope at the shoulder over an irrigation pipe. |                          |              |                        |               |            |

Photo 1 of 2 : FA\_2015\_RD0150\_16\_975\_20150911\_00055.jpg



View of minor slope instability on the waterside slope of the levee looking downstream during fall 2013 inspection.

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>5.24</b> | Rating **    | M  | Issue No.  | <b>975 (cont)</b> |
| LM End   | <b>5.24</b> | Issue Type + | Ma | Location * | WS                |

Photo 2 of 2 : FA\_2015\_RD0150\_16\_975\_20150911\_00056.jpg



View of a minor depression along the landward slope of the levee over a pipe penetration looking downstream.

|  |                         |              |                        |               |           |
|--|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start   | <b>5.25</b>             | Rating **    | C                      | Issue No.     | <b>51</b> |
| LM End   | <b>5.25</b>             | Issue Type + | En                     | Location *    | LS        |
| Category   | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|  |                         |              | Start                  | End           |           |
| Item   | Encroachments           |              | 38.381233 °            | 38.381233 °   |           |
|  |                         |              | -121.524078 °          | -121.524078 ° |           |
| DWR ID   | DWR_RD0150_02_s_2014_51 |              |                        |               |           |
| Action/Comments  |                         |              |                        |               |           |
| Pipe<br>Inspector Comments: A broken pipe outlet was found on the landside toe of the levee. |                         |              |                        |               |           |

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 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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|   |                         |              |                        |               |           |
|---|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start  | <b>5.31</b>             | Rating **    | M                      | Issue No.     | <b>47</b> |
| LM End  | <b>5.31</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category  | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|   |                         |              | Start                  | End           |           |
| Item  | Encroachments           |              | 38.381894 °            | 38.381894 °   |           |
|   |                         |              | -121.523527 °          | -121.523527 ° |           |
| DWR ID  | DWR_RD0150_02_f_2015_47 |              |                        |               |           |
| Action/Comments   |                         |              |                        |               |           |
| Tree or limb<br>Inspector Comments: Tree trunk on waterside toe might damage the levee during high water. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_47\_20151119\_00075.jpg



View of tree trunk on the waterside toe of the levee.

|   |                         |              |                        |               |           |
|---|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start  | <b>5.33</b>             | Rating **    | M                      | Issue No.     | <b>54</b> |
| LM End  | <b>5.33</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category  | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|   |                         |              | Start                  | End           |           |
| Item  | Slope Stability         |              | 38.382072 °            | 38.382072 °   |           |
|   |                         |              | -121.523220 °          | -121.523220 ° |           |
| DWR ID  | DWR_RD0150_02_f_2014_54 |              |                        |               |           |
| Action/Comments   |                         |              |                        |               |           |
| Repair the levee slope damaged by foot traffic and prevent access where possible. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_54\_20150911\_00031.jpg



View of a slope instability on the waterside of the levee looking towards the toe.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>5.39</b>             | Rating **    | M                      | Issue No.     | <b>74</b> |
| LM End          | <b>5.40</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Vegetation              |              | 38.382675 °            | 38.382793 °   |           |
|                 |                         |              | -121.522367 °          | -121.522164 ° |           |
| DWR ID          | DWR_RD0150_02_s_2012_74 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Landscaping     |                         |              |                        |               |           |

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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|  |                          |              |    |                        |               |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>5.89</b>              | Rating **    | C  | Issue No.              | <b>383</b>    |
| LM End   | <b>5.89</b>              | Issue Type + | Ma | Location *             | LS            |
| Category   | Earthen Levee            |              |    | GPS Latitude/Longitude |               |
|  |                          |              |    | Start                  | End           |
| Item   | Slope Stability          |              |    | 38.387809 °            | 38.387809 °   |
|  |                          |              |    | -121.516030 °          | -121.516030 ° |
| DWR ID   | DWR_RD0150_02_s_2015_383 |              |    |                        |               |
| Action/Comments  |                          |              |    |                        |               |
| Repair slope instability.<br>Inspector Comments: Runoff. |                          |              |    |                        |               |

No Photos

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>6.13</b>          | Rating **    | M  | Issue No.              | <b>1005</b>   |
| LM End   | <b>6.13</b>          | Issue Type + | En | Location *             | LS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 38.391099 °            | 38.391099 °   |
|  |                      |              |    | -121.514913 °          | -121.514913 ° |
| DWR ID   |                      |              |    |                        |               |
| Action/Comments  |                      |              |    |                        |               |
| Inspector Comments: FS_ID:20748<br>DS_ID:22412<br>EP_NO: N/A<br>FS_HLM: 6.23<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: - slope erosion due leaky siphon breaker at CMP riser- leaky pipe and pump- service pole on LS- 2" electric conduit on WS<br>FIELD_STRUCT_DESC: 10-inch steel pipe and an electric conduit through the levee, 4.8 feet below the crown. Slant pump on the waterward slope. Siphon breaker in corrugated metal pipe riser on the landward shoulder. Slope erosion on landside of levee at siphon breaker. (Ed. Boyles) O&M Manual SAC 112, March 1957.<br>FS Date: 08/30/2013 |                      |              |    |                        |               |

Photo 1 of 3 : UCIP\_FA\_2015\_1827.jpg



LS view: siphon breaker in CMP riser (left) on levee slope and concrete standpipe at levee toe (right).

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|          |                      |              |    |                        |                    |
|----------|----------------------|--------------|----|------------------------|--------------------|
| LM Start | <b>6.13</b>          | Rating **    | M  | Issue No.              | <b>1005 (cont)</b> |
| LM End   | <b>6.13</b>          | Issue Type + | En | Location *             | LS                 |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |                    |
|          |                      |              |    | Start                  | End                |
| Item     | DWR UCIP Field Study |              |    | 38.391099 °            | 38.391099 °        |
|          |                      |              |    | -121.514913 °          | -121.514913 °      |
| DWR ID   |                      |              |    |                        |                    |

**Action/Comments**

Inspector Comments: FS\_ID:20748  
 DS\_ID:22412  
 EP\_NO: N/A  
 FS\_HLM: 6.23  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: - slope erosion due leaky siphon breaker at CMP riser- leaky pipe and pump- service pole on LS- 2" electric conduit on WS  
 FIELD\_STRUCT\_DESC: 10-inch steel pipe and an electric conduit through the levee, 4.8 feet below the crown. Slant pump on the waterward slope. Siphon breaker in corrugated metal pipe riser on the landward shoulder. Slope erosion on landside of levee at siphon breaker. (Ed. Boyles) O&M Manual SAC 112, March 1957.  
 FS Date: 08/30/2013

|          |             |              |    |            |                    |
|----------|-------------|--------------|----|------------|--------------------|
| LM Start | <b>6.13</b> | Rating **    | M  | Issue No.  | <b>1005 (cont)</b> |
| LM End   | <b>6.13</b> | Issue Type + | En | Location * | LS                 |

Photo 2 of 3 : UCIP\_FA\_2015\_1828.jpg



WS view: leaky steel pipe and slant pump on levee slope.

Photo 3 of 3 : UCIP\_FA\_2015\_1829.jpg



WS view: steel pipe and slant pump on 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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|  |                         |              |                        |               |           |
|--|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start   | <b>6.20</b>             | Rating **    | A                      | Issue No.     | <b>46</b> |
| LM End   | <b>6.20</b>             | Issue Type + | Ma                     | Location *    | LS        |
| Category   | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|  |                         |              | Start                  | End           |           |
| Item   | Vegetation              |              | 38.392152 °            | 38.392152 °   |           |
|  |                         |              | -121.514817 °          | -121.514817 ° |           |
| DWR ID   | DWR_RD0150_02_f_2015_46 |              |                        |               |           |
| Action/Comments  |                         |              |                        |               |           |
| Control annual grass and weeds on the levee slopes and easements.<br>Inspector Comments: LMA has maintained the landside vegetation. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_46\_20151119\_00074.jpg



View of acceptable vegetation on the landside of the levee.

|   |                         |              |                        |               |           |
|---|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start  | <b>6.30</b>             | Rating **    | M                      | Issue No.     | <b>27</b> |
| LM End  | <b>6.30</b>             | Issue Type + | En                     | Location *    | LS        |
| Category  | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|   |                         |              | Start                  | End           |           |
| Item  | Vegetation              |              | 38.393655 °            | 38.393655 °   |           |
|   |                         |              | -121.514654 °          | -121.514654 ° |           |
| DWR ID  | DWR_RD0150_02_s_2012_27 |              |                        |               |           |
| Action/Comments   |                         |              |                        |               |           |
| Landscaping<br>Inspector Comments: Century plant on the landward slope. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_27\_20150911\_00017.jpg



Century plant was found on the landside of the levee looking upstream.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>6.32</b>             | Rating **    | M                      | Issue No.     | <b>29</b> |
| LM End          | <b>6.32</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Vegetation              |              | 38.393850 °            | 38.393850 °   |           |
|                 |                         |              | -121.514629 °          | -121.514629 ° |           |
| DWR ID          | DWR_RD0150_02_s_2012_29 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Landscaping     |                         |              |                        |               |           |

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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>6.36</b>             | Rating **    | U                      | Issue No.     | <b>31</b> |
| LM End          | <b>6.36</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Vegetation              |              | 38.394416 °            | 38.394416 °   |           |
|                 |                         |              | -121.514590 °          | -121.514590 ° |           |
| DWR ID          | DWR_RD0150_02_s_2012_31 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Landscaping     |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_31\_20150911\_00020.jpg



Trees need to be trimmed on the landside of the levee looking upstream.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>6.39</b>             | Rating **    | M                      | Issue No.     | <b>65</b> |
| LM End          | <b>6.46</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Vegetation              |              | 38.394935 °            | 38.395931 °   |           |
|                 |                         |              | -121.514597 °          | -121.514604 ° |           |
| DWR ID          | DWR_RD0150_02_s_2012_65 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Landscaping     |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_65\_20150911\_00037.jpg



View of landscaping along the waterward shoulder and slope looking downstream.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>6.42</b>             | Rating **    | M                      | Issue No.     | <b>34</b> |
| LM End          | <b>6.42</b>             | Issue Type + | En                     | Location *    | WS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Vegetation              |              | 38.395340 °            | 38.395340 °   |           |
|                 |                         |              | -121.514528 °          | -121.514528 ° |           |
| DWR ID          | DWR_RD0150_02_s_2012_34 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Landscaping     |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_34\_20150911\_00022.jpg



Landscaping was found on the waterside of the levee looking upstream.

|  |  |  |   |
|--|--|--|---|
| <b>* Location</b><br>LS : Land Side<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <b>N : Not Inspected/Rated</b><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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>6.48</b>             | Rating **    | M  | Issue No.              | <b>42</b>     |
| LM End  | <b>6.48</b>             | Issue Type + | En | Location *             | WS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Encroachments           |              |    | 38.396235 °            | 38.396235 °   |
|   |                         |              |    | -121.514547 °          | -121.514547 ° |
| DWR ID  | DWR_RD0150_02_s_2012_42 |              |    |                        |               |
| Action/Comments                                       |                         |              |    |                        |               |
| Stairway<br>Inspector Comments: Unpermitted stairway. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_42\_20150911\_00024.jpg



A stairway was found on the waterside slope of the levee looking upstream.

|   |                      |              |    |                        |               |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>6.50</b>          | Rating **    | M  | Issue No.              | <b>1006</b>   |
| LM End  | <b>6.50</b>          | Issue Type + | En | Location *             | WS            |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |               |
|   |                      |              |    | Start                  | End           |
| Item  | DWR UCIP Field Study |              |    | 38.396449 °            | 38.396449 °   |
|   |                      |              |    | -121.514516 °          | -121.514516 ° |
| DWR ID  |                      |              |    |                        |               |
| Action/Comments   |                      |              |    |                        |               |
| Inspector Comments: FS_ID:20754<br>DS_ID:22413<br>EP_NO: N/A<br>FS_HLM: 6.607<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: Only an abandoned and dismantled CMP riser with gate valve found on WS levee slope. May need proper abandonment.<br>FIELD_STRUCT_DESC: Only an abandoned and dismantled CMP riser with gate valve found on waterside levee slope.<br>FS Date: 08/30/2013 |                      |              |    |                        |               |

Photo 1 of 3 : UCIP\_FA\_2015\_1830.jpg



WS view: an abandoned and dismantled CMP riser with gate valve handle on WS 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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

| LM Start  | 6.50                 | Rating **    | M     | Issue No.              | 1006 (cont)   |
|---|----------------------|--------------|-------|------------------------|---------------|
| LM End  | 6.50                 | Issue Type + | En    | Location *             | WS            |
| Category  | Supplemental         |              |       | GPS Latitude/Longitude |               |
|   |                      |              | Start | End                    |               |
| Item  | DWR UCIP Field Study |              |       | 38.396449 °            | 38.396449 °   |
|   |                      |              |       | -121.514516 °          | -121.514516 ° |
| DWR ID  |                      |              |       |                        |               |
| Action/Comments   |                      |              |       |                        |               |
| Inspector Comments: FS_ID:20754<br>DS_ID:22413<br>EP_NO: N/A<br>FS_HLM: 6.607<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: Only an abandoned and dismantled CMP riser with gate valve found on WS levee slope. May need proper abandonment.<br>FIELD_STRUCT_DESC: Only an abandoned and dismantled CMP riser with gate valve found on waterside levee slope.<br>FS Date: 08/30/2013 |                      |              |       |                        |               |

Photo 2 of 3 : UCIP\_FA\_2015\_1831.jpg



WS view: closer view of an abandoned and dismantled CMP riser on WS levee slope.

| LM Start | 6.50 | Rating **    | M  | Issue No.  | 1006 (cont) |
|----------|------|--------------|----|------------|-------------|
| LM End   | 6.50 | Issue Type + | En | Location * | WS          |

Photo 3 of 3 : UCIP\_FA\_2015\_1832.jpg



WS view: an abandoned and dismantled CMP riser on WS 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 | 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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|  |                         |              |                        |               |           |
|--|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start   | <b>6.50</b>             | Rating **    | M                      | Issue No.     | <b>55</b> |
| LM End   | <b>6.50</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category   | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|  |                         |              | Start                  | End           |           |
| Item   | Encroachments           |              | 38.396518 °            | 38.396518 °   |           |
|  |                         |              | -121.514530 °          | -121.514530 ° |           |
| DWR ID   | DWR_RD0150_02_f_2014_55 |              |                        |               |           |
| Action/Comments  |                         |              |                        |               |           |
| Pipe<br>Inspector Comments: The pipe gate needs to be covered on the waterside toe of the levee. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_55\_20150911\_00032.jpg



An open pipe valve was found without a cover on the waterside toe of the levee.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>6.56</b>             | Rating **    | U                      | Issue No.     | <b>64</b> |
| LM End          | <b>6.61</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Vegetation              |              | 38.397411 °            | 38.398033 °   |           |
|                 |                         |              | -121.514681 °          | -121.514753 ° |           |
| DWR ID          | DWR_RD0150_02_s_2012_64 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Landscaping     |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_64\_20150911\_00036.jpg



Landscaping providing a screen for a residence on landside of levee from LM 6.68 to LM 6.72

|  |   |   |
|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|          |                      |              |    |                        |               |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | <b>6.57</b>          | Rating **    | M  | Issue No.              | <b>1007</b>   |
| LM End   | <b>6.57</b>          | Issue Type + | En | Location *             | LS            |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |               |
|          |                      |              |    | Start                  | End           |
| Item     | DWR UCIP Field Study |              |    | 38.397451 °            | 38.397451 °   |
|          |                      |              |    | -121.514601 °          | -121.514601 ° |
| DWR ID   |                      |              |    |                        |               |

**Action/Comments**  
 Inspector Comments: FS\_ID:41720  
 DS\_ID:22425  
 EP\_NO: N/A  
 FS\_HLM: 6.677  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: Need to clear dense vegetation on WS.- water filtration plant on LS levee toe.- Slide gate on CMP riser on WS.  
 FIELD\_STRUCT\_DESC: 8-inch pipe through the levee, 12.0 feet below the crown, gate valve in CM riser on the waterward slope. Pump at the landward toe. (Joe Gomez)  
 FS Date: 08/30/2013

|          |             |              |    |            |                    |
|----------|-------------|--------------|----|------------|--------------------|
| LM Start | <b>6.57</b> | Rating **    | M  | Issue No.  | <b>1007 (cont)</b> |
| LM End   | <b>6.57</b> | Issue Type + | En | Location * | LS                 |

Photo 1 of 2 : UCIP\_FA\_2015\_2089.jpg



LS view: concrete vault, pipe, and pump in water filtration plant.

Photo 2 of 2 : UCIP\_FA\_2015\_2090.jpg



WS view: CMP riser with gate valve on levee slope. Dense vegetation on levee slope and stream bank.

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|  |                         |              |                        |               |           |
|--|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start   | <b>6.64</b>             | Rating **    | M                      | Issue No.     | <b>43</b> |
| LM End   | <b>6.64</b>             | Issue Type + | En                     | Location *    | LS        |
| Category   | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|  |                         |              | Start                  | End           |           |
| Item   | Vegetation              |              | 38.398456 °            | 38.398456 °   |           |
|  |                         |              | -121.514735 °          | -121.514735 ° |           |
| DWR ID   | DWR_RD0150_02_s_2012_43 |              |                        |               |           |
| Action/Comments  |                         |              |                        |               |           |
| Landscaping<br>Inspector Comments: Century plant on landside of the levee. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_43\_20150911\_00025.jpg



Century plants were found on the landside of the levee looking upstream.

|   |                      |              |                        |               |             |
|---|----------------------|--------------|------------------------|---------------|-------------|
| LM Start  | <b>6.69</b>          | Rating **    | M                      | Issue No.     | <b>1008</b> |
| LM End  | <b>6.69</b>          | Issue Type + | En                     | Location *    | LS          |
| Category  | Supplemental         |              | GPS Latitude/Longitude |               |             |
|   |                      |              | Start                  | End           |             |
| Item  | DWR UCIP Field Study |              | 38.399167 °            | 38.399167 °   |             |
|   |                      |              | -121.514793 °          | -121.514793 ° |             |
| DWR ID  |                      |              |                        |               |             |
| Action/Comments   |                      |              |                        |               |             |
| Inspector Comments: FS_ID:41646<br>DS_ID:22426<br>EP_NO: N/A<br>FS_HLM: 6.798<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: - abandoned very old gate valve also found on WS.<br>Rest of pipe should be evaluated due to its age.<br>FIELD_STRUCT_DESC: 9-inch steel pipe through the levee, 9.7 feet below the crown, gate valve and pump house on the landside. (A. Souza). O&M Manual SAC 112, March 1957.<br>FS Date: 08/30/2013 |                      |              |                        |               |             |

Photo 1 of 3 : UCIP\_FA\_2015\_2091.jpg



LS view: concrete masonry distribution box (top), steel pipe, gate valve, air vent, and pump (left) on 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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

| LM Start  | 6.69                 | Rating **    | M     | Issue No.              | 1008 (cont)   |
|---|----------------------|--------------|-------|------------------------|---------------|
| LM End  | 6.69                 | Issue Type + | En    | Location *             | LS            |
| Category  | Supplemental         |              |       | GPS Latitude/Longitude |               |
|   |                      |              | Start | End                    |               |
| Item  | DWR UCIP Field Study |              |       | 38.399167 °            | 38.399167 °   |
| DWR ID  |                      |              |       | -121.514793 °          | -121.514793 ° |
| Action/Comments   |                      |              |       |                        |               |
| Inspector Comments: FS_ID:41646<br>DS_ID:22426<br>EP_NO: N/A<br>FS_HLM: 6.798<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: - abandoned very old gate valve also found on WS.<br>Rest of pipe should be evaluated due to its age.<br>FIELD_STRUCT_DESC: 9-inch steel pipe through the levee, 9.7 feet below the crown, gate valve and pump house on the landside. (A. Souza). O&M Manual SAC 112, March 1957.<br>FS Date: 08/30/2013 |                      |              |       |                        |               |

Photo 2 of 3 : UCIP\_FA\_2015\_2092.jpg



WS view: An abandoned old gate valve on inlet steel pipe on stream bank.

| LM Start | 6.69 | Rating **    | M  | Issue No.  | 1008 (cont) |
|----------|------|--------------|----|------------|-------------|
| LM End   | 6.69 | Issue Type + | En | Location * | LS          |

Photo 3 of 3 : UCIP\_FA\_2015\_2093.jpg



WS view: inlet steel pipe on stream bank.

|   |  |  |   |
|---|--|--|---|
| <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 | <b>N : Not Inspected/Rated</b><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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|                 |                         |              |    |                        |               |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start        | <b>6.72</b>             | Rating **    | M  | Issue No.              | <b>38</b>     |
| LM End          | <b>6.72</b>             | Issue Type + | En | Location *             | WS            |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                 |                         |              |    | Start                  | End           |
| Item            | Encroachments           |              |    | 38.399623 °            | 38.399623 °   |
|                 |                         |              |    | -121.514877 °          | -121.514877 ° |
| DWR ID          | DWR_RD0150_02_s_2013_38 |              |    |                        |               |
| Action/Comments |                         |              |    |                        |               |
| Stairway        |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_38\_20150911\_00023.jpg



A stairway was found on the waterside slope of the levee looking upstream during spring 2013 inspection.

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>6.80</b>          | Rating **    | U  | Issue No.              | <b>1009</b>   |
| LM End   | <b>6.80</b>          | Issue Type + | En | Location *             | WS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 38.400835 °            | 38.400835 °   |
|  |                      |              |    | -121.515066 °          | -121.515066 ° |
| DWR ID   |                      |              |    |                        |               |
| Action/Comments  |                      |              |    |                        |               |
| Inspector Comments: FS_ID:42903<br>DS_ID:22427<br>EP_NO: 1703<br>FS_HLM: 6.916<br>Repair Type: Urgent<br>Crossing Status: Found<br>UCIP Comments: - significant erosion along pipe alignment on LS slope.- pump on concrete pad- service pole on LS slope.<br>FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 4.5 feet below the crown, pump and gate valve on the waterward slope. Service pole and standpipe on the landward shoulder. (App. No. 1703 - M. Silva).<br>FS Date: 08/30/2013 |                      |              |    |                        |               |

Photo 1 of 3 : UCIP\_FA\_2015\_1833.jpg



WS view: closer view of gate valve and pump on levee slope

|  |  |  |   |
|--|--|--|---|
| <b>* Location</b><br>LS : Land Side<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <b>N : Not Inspected/Rated</b><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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

| LM Start   | 6.80                 | Rating **    | U  | Issue No.              | 1009 (cont)   |
|--|----------------------|--------------|----|------------------------|---------------|
| LM End   | 6.80                 | Issue Type + | En | Location *             | WS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 38.400835 °            | 38.400835 °   |
|  |                      |              |    | -121.515066 °          | -121.515066 ° |
| DWR ID   |                      |              |    |                        |               |
| Action/Comments  |                      |              |    |                        |               |
| Inspector Comments: FS_ID:42903<br>DS_ID:22427<br>EP_NO: 1703<br>FS_HLM: 6.916<br>Repair Type: Urgent<br>Crossing Status: Found<br>UCIP Comments: - significant erosion along pipe alignment on LS slope.- pump on concrete pad- service pole on LS slope.<br>FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 4.5 feet below the crown, pump and gate valve on the waterward slope. Service pole and standpipe on the landward shoulder. (App. No. 1703 - M. Silva).<br>FS Date: 08/30/2013 |                      |              |    |                        |               |

Photo 2 of 3 : UCIP\_FA\_2015\_1834.jpg



WS view: steel inlet pipe in the stream and bank.

| LM Start | 6.80 | Rating **    | U  | Issue No.  | 1009 (cont) |
|----------|------|--------------|----|------------|-------------|
| LM End   | 6.80 | Issue Type + | En | Location * | WS          |
|          |      |              |    |            |             |

Photo 3 of 3 : UCIP\_FA\_2015\_1835.jpg



WS view: steel pipe, electric conduit, gate valve, and pump on levee slope.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|                 |                         |              |    |                        |               |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start        | <b>6.81</b>             | Rating **    | U  | Issue No.              | <b>60</b>     |
| LM End          | <b>6.93</b>             | Issue Type + | En | Location *             | LS            |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                 |                         |              |    | Start                  | End           |
| Item            | Vegetation              |              |    | 38.400936 °            | 38.402613 °   |
|                 |                         |              |    | -121.515173 °          | -121.515863 ° |
| DWR ID          | DWR_RD0150_02_s_2012_60 |              |    |                        |               |
| Action/Comments |                         |              |    |                        |               |
| Landscaping     |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_60\_20150911\_00035.jpg



Landscaping providing a screen for a residence on the landside of levee from LM 6.93 to LM 7.05

|   |                      |              |    |                        |               |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>7.00</b>          | Rating **    | U  | Issue No.              | <b>1010</b>   |
| LM End  | <b>7.00</b>          | Issue Type + | En | Location *             | LS            |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |               |
|   |                      |              |    | Start                  | End           |
| Item  | DWR UCIP Field Study |              |    | 38.403513 °            | 38.403513 °   |
|   |                      |              |    | -121.516162 °          | -121.516162 ° |
| DWR ID  |                      |              |    |                        |               |
| Action/Comments   |                      |              |    |                        |               |
| Inspector Comments: FS_ID:20203<br>DS_ID:22429<br>EP_NO: N/A<br>FS_HLM: 7.1138<br>Repair Type: Urgent<br>Crossing Status: Found<br>UCIP Comments: - soil erosion along pipe alignment on LS slope.- needs more investigation and mitigation for soil erosion.<br>FIELD_STRUCT_DESC: 8-inch steel pipe through the levee 10.0 feet below the crown, pump on concrete slab and slide gate in CMP riser on the waterward slope. Pipe through the levee section encased in reinforced concrete. A concrete standpipe on landside toe. (A. Monice).<br>FS Date: 08/30/2013 |                      |              |    |                        |               |

Photo 1 of 3 : UCIP\_FA\_2015\_1728.jpg



WS view: pump on levee slope. Dense vegetation on levee slope.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side<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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|          |                      |              |    |                        |                    |
|----------|----------------------|--------------|----|------------------------|--------------------|
| LM Start | <b>7.00</b>          | Rating **    | U  | Issue No.              | <b>1010 (cont)</b> |
| LM End   | <b>7.00</b>          | Issue Type + | En | Location *             | LS                 |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |                    |
|          |                      |              |    | Start                  | End                |
| Item     | DWR UCIP Field Study |              |    | 38.403513 °            | 38.403513 °        |
|          |                      |              |    | -121.516162 °          | -121.516162 °      |
| DWR ID   |                      |              |    |                        |                    |

**Action/Comments**  
 Inspector Comments: FS\_ID:20203  
 DS\_ID:22429  
 EP\_NO: N/A  
 FS\_HLM: 7.1138  
 Repair Type: Urgent  
 Crossing Status: Found  
 UCIP Comments: - soil erosion along pipe alignment on LS slope.- needs more investigation and mitigation for soil erosion.  
 FIELD\_STRUCT\_DESC: 8-inch steel pipe through the levee 10.0 feet below the crown, pump on concrete slab and slide gate in CMP riser on the waterward slope. Pipe through the levee section encased in reinforced concrete. A concrete standpipe on landside toe. (A. Monice).  
 FS Date: 08/30/2013

Photo 2 of 3 : UCIP\_FA\_2015\_1729.jpg



WS view: steel intake pipe and pump on levee slope. Dense vegetation on levee slope.

|          |             |              |    |            |                    |
|----------|-------------|--------------|----|------------|--------------------|
| LM Start | <b>7.00</b> | Rating **    | U  | Issue No.  | <b>1010 (cont)</b> |
| LM End   | <b>7.00</b> | Issue Type + | En | Location * | LS                 |

Photo 3 of 3 : UCIP\_FA\_2015\_1730.jpg



WS view: CMP riser with slide gate and pump (right) on 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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway                     | Bank  | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81       | 11/18/2015<br>11/18/2015 | Pavel Kazi |

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>7.01</b>             | Rating **    | M                      | Issue No.     | <b>58</b> |
| LM End          | <b>7.01</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Vegetation              |              | 38.403631 °            | 38.403631 °   |           |
|                 |                         |              | -121.516299 °          | -121.516299 ° |           |
| DWR ID          | DWR_RD0150_02_s_2012_58 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Landscaping     |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_16\_58\_20150911\_00034.jpg



Landscaping providing a screen for a residence on landside of levee at LM 7.12

|  |                         |              |                        |               |           |
|--|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start   | <b>7.22</b>             | Rating **    | M                      | Issue No.     | <b>32</b> |
| LM End   | <b>7.22</b>             | Issue Type + | Ma                     | Location *    | LS        |
| Category   | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|  |                         |              | Start                  | End           |           |
| Item   | Vegetation              |              | 38.406454 °            | 38.406454 °   |           |
|  |                         |              | -121.517732 °          | -121.517732 ° |           |
| DWR ID   | DWR_RD0150_02_s_2012_32 |              |                        |               |           |
| Action/Comments  |                         |              |                        |               |           |
| Elderberries are blocking visibility and flood fight capability. |                         |              |                        |               |           |

No Photos

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>7.77</b>             | Rating **    | M                      | Issue No.     | <b>41</b> |
| LM End          | <b>7.77</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Vegetation              |              | 38.413563 °            | 38.413563 °   |           |
|                 |                         |              | -121.522593 °          | -121.522593 ° |           |
| DWR ID          | DWR_RD0150_02_s_2013_41 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Landscaping     |                         |              |                        |               |           |

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**

**Unit Cover Sheet**

**Fall 2015 Levee Inspection Results**

**Reclamation District No. 0150 Merrit Island**

| Waterway                               |                         | Bank                      | Unit Miles                     |                                 |
|--|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit No. 03 Elk Slough                 |                         | Left                      | 9.41                           |                                 |
|  | Spring<br>(March - May) | Summer<br>(June - August) | (September - November)<br>Fall | Winter<br>(December - February) |
| Unit Maintenance Rating<br>(Fall Only) |                         |                           | <b>M</b>                       |                                 |
| Date of Inspection                     | 04/08/2015 - 04/08/2015 |                           | 11/17/2015 - 11/17/2015        |                                 |
| DWR Inspector                          | Pavel Kazi              |                           | Pavel Kazi                     |                                 |
| Accompanied By                         |                         |                           | Warren Boggle<br>RD 150        |                                 |

**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 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|          |                                  |              |    |                        |               |
|----------|----------------------------------|--------------|----|------------------------|---------------|
| LM Start | <b>0.01</b>                      | Rating **    | M  | Issue No.              | <b>2</b>      |
| LM End   | <b>9.40</b>                      | Issue Type + | Ob | Location *             | WS            |
| Category | Supplemental                     |              |    | GPS Latitude/Longitude |               |
|          |                                  |              |    | Start                  | End           |
| Item     | 2015 USACE Erosion Survey, DRAFT |              |    | 38.332735 °            | 38.413893 °   |
|          |                                  |              |    | -121.583625 °          | -121.522896 ° |
| DWR ID   |                                  |              |    |                        |               |

No Photos

| Action/Comments  |  |  |  |  |  |
|--|--|--|--|--|--|
| Inspector Comments: 1997 - Most of lower Elk Slough contains high near vertical banks, with erosion into the levee slope. Channel almost appears incised. 2002 - Sites where the levee slope is near vertical and severely eroding. It could fail catastrophically. 2004 - Looks bad in terms of vertical slopes and fallen trees. 2005 - Banks are still over steepened in most places and potentially susceptible to geotechnical failures. 2006 - Both banks are still over steepened in most places and potentially susceptible to geotechnical failures. 2010 - The entire reach is in poor condition, with severely eroding near vertical slopes, needs a regional repair. 2011 - Channel banks are still oversteepened with erosion continuing. 2012 - New cracks and animal holes observed. 2015: No observed changes. [2015 Site ID: ELK_0-2_L] |  |  |  |  |  |

|          |                          |              |    |                        |               |
|----------|--------------------------|--------------|----|------------------------|---------------|
| LM Start | <b>0.11</b>              | Rating **    | M  | Issue No.              | <b>936</b>    |
| LM End   | <b>0.11</b>              | Issue Type + | Ma | Location *             | WS            |
| Category | Earthen Levee            |              |    | GPS Latitude/Longitude |               |
|          |                          |              |    | Start                  | End           |
| Item     | Vegetation               |              |    | 38.334233 °            | 38.334233 °   |
|          |                          |              |    | -121.583414 °          | -121.583414 ° |
| DWR ID   | DWR_RD0150_03_s_2012_936 |              |    |                        |               |

| Action/Comments   |  |  |  |  |  |
|---|--|--|--|--|--|
| Elderberries are blocking visibility and flood fight capability.<br>Inspector Comments: Elderberries are partially blocking visibility. |  |  |  |  |  |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_936\_20150911\_00106.jpg



View of elderberry bush within 20 feet of shoulder blocking visibility and access.

|  |   |   |
|--|---|---|
| <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><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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|   |                        |              |                        |               |          |
|---|------------------------|--------------|------------------------|---------------|----------|
| LM Start  | <b>0.35</b>            | Rating **    | M                      | Issue No.     | <b>3</b> |
| LM End  | <b>0.35</b>            | Issue Type + | En                     | Location *    | WS       |
| Category  | Earthen Levee          |              | GPS Latitude/Longitude |               |          |
|   |                        |              | Start                  | End           |          |
| Item  | Encroachments          |              | 38.337442 °            | 38.337442 °   |          |
|   |                        |              | -121.581628 °          | -121.581628 ° |          |
| DWR ID  | DWR_RD0150_03_s_2012_3 |              |                        |               |          |
| Action/Comments   |                        |              |                        |               |          |
| Building<br>Inspector Comments: Steps, water, electricity, and dock on waterward slope. |                        |              |                        |               |          |

Photo 1 of 2 : FA\_2015\_RD0150\_17\_3\_20150911\_00001.jpg



View of a house on the landside toe of the levee looking upstream.

|          |             |              |    |            |                 |
|----------|-------------|--------------|----|------------|-----------------|
| LM Start | <b>0.35</b> | Rating **    | M  | Issue No.  | <b>3 (cont)</b> |
| LM End   | <b>0.35</b> | Issue Type + | En | Location * | WS              |

Photo 2 of 2 : FA\_2015\_RD0150\_17\_3\_20150911\_00002.jpg



View of steps, a dock, and associated utilities on the waterward slope.

|  |                      |              |                        |               |            |
|--|----------------------|--------------|------------------------|---------------|------------|
| LM Start   | <b>0.39</b>          | Rating **    | M                      | Issue No.     | <b>951</b> |
| LM End   | <b>0.39</b>          | Issue Type + | En                     | Location *    | WS         |
| Category   | Supplemental         |              | GPS Latitude/Longitude |               |            |
|  |                      |              | Start                  | End           |            |
| Item   | DWR UCIP Field Study |              | 38.337928 °            | 38.337928 °   |            |
|  |                      |              | -121.581496 °          | -121.581496 ° |            |
| DWR ID   |                      |              |                        |               |            |
| Action/Comments  |                      |              |                        |               |            |
| Inspector Comments: FS_ID:42694<br>DS_ID:22453<br>EP_NO: 13612<br>FS_HLM: 0.394<br>Repair Type: Non-Urgent<br>Crossing Status: Found |                      |              |                        |               |            |

Photo 1 of 3 : UCIP\_FA\_2015\_1624.jpg



WS view: abandoned pipe, gate valve, and pump on levee slope.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                      |              |    |                        |                   |
|--|----------------------|--------------|----|------------------------|-------------------|
| LM Start   | <b>0.39</b>          | Rating **    | M  | Issue No.              | <b>951 (cont)</b> |
| LM End   | <b>0.39</b>          | Issue Type + | En | Location *             | WS                |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |                   |
|  |                      |              |    | Start                  | End               |
| Item   | DWR UCIP Field Study |              |    | 38.337928 °            | 38.337928 °       |
|  |                      |              |    | -121.581496 °          | -121.581496 °     |
| DWR ID   |                      |              |    |                        |                   |
| Action/Comments  |                      |              |    |                        |                   |
| Inspector Comments: FS_ID:42694<br>DS_ID:22453<br>EP_NO: 13612<br>FS_HLM: 0.394<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: Abandoned. Proper abandone needs.<br>FIELD_STRUCT_DESC: Abandoned 6-inch steel pipe through the levee, 3.5 feet below the crown. Pump and gate valve on the waterward slope.<br>FS Date: 08/20/2013 |                      |              |    |                        |                   |

Photo 2 of 3 : UCIP\_FA\_2015\_1625.jpg



WS view: safety valve on steel pipe.

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>0.39</b> | Rating **    | M  | Issue No.  | <b>951 (cont)</b> |
| LM End   | <b>0.39</b> | Issue Type + | En | Location * | WS                |

Photo 3 of 3 : UCIP\_FA\_2015\_1626.jpg



WS view: pipe and pump on 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 | 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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>0.40</b>          | Rating **    | M  | Issue No.              | <b>952</b>    |
| LM End   | <b>0.40</b>          | Issue Type + | En | Location *             | WS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 38.338131 °            | 38.338131 °   |
|  |                      |              |    | -121.581434 °          | -121.581434 ° |
| DWR ID   |                      |              |    |                        |               |
| Action/Comments  |                      |              |    |                        |               |
| Inspector Comments: FS_ID:42693<br>DS_ID:22454<br>EP_NO: N/A<br>FS_HLM: 0.409<br>Repair Type: Non-Urgent<br>Crossing Status: Found |                      |              |    |                        |               |

Photo 1 of 3 : UCIP\_FA\_2015\_1621.jpg



WS view: pipe and pump on levee slope.

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>0.40</b> | Rating **    | M  | Issue No.  | <b>952 (cont)</b> |
| LM End   | <b>0.40</b> | Issue Type + | En | Location * | WS                |

Photo 2 of 3 : UCIP\_FA\_2015\_1622.jpg



LS view: no pipe on 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 | 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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                      |              |    |                        |                   |
|--|----------------------|--------------|----|------------------------|-------------------|
| LM Start   | <b>0.40</b>          | Rating **    | M  | Issue No.              | <b>952 (cont)</b> |
| LM End   | <b>0.40</b>          | Issue Type + | En | Location *             | WS                |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |                   |
|  |                      |              |    | Start                  | End               |
| Item   | DWR UCIP Field Study |              |    | 38.338131 °            | 38.338131 °       |
|  |                      |              |    | -121.581434 °          | -121.581434 °     |
| DWR ID   |                      |              |    |                        |                   |
| Action/Comments  |                      |              |    |                        |                   |
| Inspector Comments: FS_ID:42693<br>DS_ID:22454<br>EP_NO: N/A<br>FS_HLM: 0.409<br>Repair Type: Non-Urgent<br>Crossing Status: Found |                      |              |    |                        |                   |

Photo 3 of 3 : UCIP\_FA\_2015\_1623.jpg



LS view: service pole on levee slope.

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>0.49</b>             | Rating **    | C  | Issue No.              | <b>74</b>     |
| LM End   | <b>0.49</b>             | Issue Type + | Ma | Location *             | LS            |
| Category   | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item   | Animal Control          |              |    | 38.339437 °            | 38.339437 °   |
|  |                         |              |    | -121.581162 °          | -121.581162 ° |
| DWR ID   | DWR_RD0150_03_f_2014_74 |              |    |                        |               |
| Action/Comments  |                         |              |    |                        |               |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. |                         |              |    |                        |               |

No Photos

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>0.59</b>             | Rating **    | M  | Issue No.              | <b>54</b>     |
| LM End   | <b>0.59</b>             | Issue Type + | Ma | Location *             | LS            |
| Category   | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item   | Animal Control          |              |    | 38.340741 °            | 38.340741 °   |
|  |                         |              |    | -121.580797 °          | -121.580797 ° |
| DWR ID   | DWR_RD0150_03_f_2014_54 |              |    |                        |               |
| Action/Comments  |                         |              |    |                        |               |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_54\_20150911\_00047.jpg



View of an animal hole on the landside of the levee looking downstream.

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                          |              |                        |               |            |
|--|--------------------------|--------------|------------------------|---------------|------------|
| LM Start   | <b>0.61</b>              | Rating **    | M                      | Issue No.     | <b>390</b> |
| LM End   | <b>0.61</b>              | Issue Type + | Ma                     | Location *    | LS         |
| Category   | Earthen Levee            |              | GPS Latitude/Longitude |               |            |
|  |                          |              | Start                  | End           |            |
| Item   | Animal Control           |              | 38.341056 °            | 38.341056 °   |            |
|  |                          |              | -121.580676 °          | -121.580676 ° |            |
| DWR ID   | DWR_RD0150_03_s_2015_390 |              |                        |               |            |
| Action/Comments  |                          |              |                        |               |            |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. |                          |              |                        |               |            |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_390\_20150911\_00095.jpg



Rodent holes were found on the landside of the levee looking downstream.

|  |                        |              |                        |               |          |
|--|------------------------|--------------|------------------------|---------------|----------|
| LM Start   | <b>0.92</b>            | Rating **    | M                      | Issue No.     | <b>5</b> |
| LM End   | <b>0.92</b>            | Issue Type + | Ma                     | Location *    | LS       |
| Category   | Earthen Levee          |              | GPS Latitude/Longitude |               |          |
|  |                        |              | Start                  | End           |          |
| Item   | Vegetation             |              | 38.345493 °            | 38.345493 °   |          |
|  |                        |              | -121.579682 °          | -121.579682 ° |          |
| DWR ID   | DWR_RD0150_03_s_2012_5 |              |                        |               |          |
| Action/Comments  |                        |              |                        |               |          |
| Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberries are partially blocking visibility. |                        |              |                        |               |          |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_5\_20151119\_00120.jpg



View of elderberries on the landward slope of the levee.

|   |                          |              |                        |               |            |
|---|--------------------------|--------------|------------------------|---------------|------------|
| LM Start  | <b>1.26</b>              | Rating **    | C                      | Issue No.     | <b>392</b> |
| LM End  | <b>1.26</b>              | Issue Type + | Ma                     | Location *    | WS         |
| Category  | Earthen Levee            |              | GPS Latitude/Longitude |               |            |
|   |                          |              | Start                  | End           |            |
| Item  | Slope Stability          |              | 38.347466 °            | 38.347466 °   |            |
|   |                          |              | -121.574937 °          | -121.574937 ° |            |
| DWR ID  | DWR_RD0150_03_s_2015_392 |              |                        |               |            |
| Action/Comments   |                          |              |                        |               |            |
| Repair slope instability. Inspector Comments: Runoff possibly caused by animal holes. |                          |              |                        |               |            |

No Photos

|  |  |   |
|--|--|---|
| <b>* Location</b><br>LS : Land Side<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>1.35</b>          | Rating **    | M  | Issue No.              | <b>953</b>    |
| LM End   | <b>1.35</b>          | Issue Type + | En | Location *             | WS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 38.347489 °            | 38.347489 °   |
|  |                      |              |    | -121.573302 °          | -121.573302 ° |
| DWR ID   |                      |              |    |                        |               |
| Action/Comments  |                      |              |    |                        |               |
| Inspector Comments: FS_ID:19112<br>DS_ID:22433<br>EP_NO: N/A<br>FS_HLM: 1.377<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: No handrail on wooden walkway.<br>FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 8.0 feet below the crown, pump in pump house on the waterward slope. Service pole and steel distribution box on the landward slope.<br>FS Date: 08/20/2013 |                      |              |    |                        |               |

Photo 1 of 3 : UCIP\_FA\_2015\_1507.jpg



WS view: pipe, wooden walkway and pump house in channel.

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>1.35</b> | Rating **    | M  | Issue No.  | <b>953 (cont)</b> |
| LM End   | <b>1.35</b> | Issue Type + | En | Location * | WS                |

Photo 2 of 3 : UCIP\_FA\_2015\_1508.jpg



WS view: concrete headwall and exposed pipe on 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 | 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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                      |              |    |                        |                   |
|--|----------------------|--------------|----|------------------------|-------------------|
| LM Start   | <b>1.35</b>          | Rating **    | M  | Issue No.              | <b>953 (cont)</b> |
| LM End   | <b>1.35</b>          | Issue Type + | En | Location *             | WS                |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |                   |
|  |                      |              |    | Start                  | End               |
| Item   | DWR UCIP Field Study |              |    | 38.347489 °            | 38.347489 °       |
|  |                      |              |    | -121.573302 °          | -121.573302 °     |
| DWR ID   |                      |              |    |                        |                   |
| Action/Comments  |                      |              |    |                        |                   |
| Inspector Comments: FS_ID:19112<br>DS_ID:22433<br>EP_NO: N/A<br>FS_HLM: 1.377<br>Repair Type: Non-Urgent<br>Crossing Status: Found |                      |              |    |                        |                   |

Photo 3 of 3 : UCIP\_FA\_2015\_1509.jpg



WS view: pipe on levee slope and pump house in channel.

|  |                          |              |    |                        |               |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>1.40</b>              | Rating **    | M  | Issue No.              | <b>393</b>    |
| LM End   | <b>1.40</b>              | Issue Type + | Ma | Location *             | WS            |
| Category   | Earthen Levee            |              |    | GPS Latitude/Longitude |               |
|  |                          |              |    | Start                  | End           |
| Item   | Animal Control           |              |    | 38.347880 °            | 38.347880 °   |
|  |                          |              |    | -121.572500 °          | -121.572500 ° |
| DWR ID   | DWR_RD0150_03_s_2015_393 |              |    |                        |               |
| Action/Comments  |                          |              |    |                        |               |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. |                          |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_393\_20150911\_00097.jpg



Rodent holes were found on the waterside of the levee looking downstream.

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>1.78</b>          | Rating **    | M  | Issue No.              | <b>954</b>    |
| LM End   | <b>1.78</b>          | Issue Type + | En | Location *             | WS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 38.353180 °            | 38.353180 °   |
|  |                      |              |    | -121.572907 °          | -121.572907 ° |
| DWR ID   |                      |              |    |                        |               |
| Action/Comments  |                      |              |    |                        |               |
| Inspector Comments: FS_ID:19137<br>DS_ID:22434<br>EP_NO: N/A<br>FS_HLM: 1.809<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: Small depression on WS slope due to leak from pump. Pipe opens on LS ditch/depression.<br>FIELD_STRUCT_DESC: 10-inch pipe through the levee, 3.4 feet below the crown, pump, gate valve and service pole on the waterward slope.<br>FS Date: 08/20/2013 |                      |              |    |                        |               |

Photo 1 of 3 : UCIP\_FA\_2015\_1559.jpg



WS view: pipe and slant pump on levee slope.

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>1.78</b> | Rating **    | M  | Issue No.  | <b>954 (cont)</b> |
| LM End   | <b>1.78</b> | Issue Type + | En | Location * | WS                |

Photo 2 of 3 : UCIP\_FA\_2015\_1560.jpg



WS view: exposed pipe on 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 | 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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                      |              |    |                        |                   |
|--|----------------------|--------------|----|------------------------|-------------------|
| LM Start   | <b>1.78</b>          | Rating **    | M  | Issue No.              | <b>954 (cont)</b> |
| LM End   | <b>1.78</b>          | Issue Type + | En | Location *             | WS                |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |                   |
|  |                      |              |    | Start                  | End               |
| Item   | DWR UCIP Field Study |              |    | 38.353180 °            | 38.353180 °       |
|  |                      |              |    | -121.572907 °          | -121.572907 °     |
| DWR ID   |                      |              |    |                        |                   |
| Action/Comments  |                      |              |    |                        |                   |
| Inspector Comments: FS_ID:19137<br>DS_ID:22434<br>EP_NO: N/A<br>FS_HLM: 1.809<br>Repair Type: Non-Urgent<br>Crossing Status: Found |                      |              |    |                        |                   |

Photo 3 of 3 : UCIP\_FA\_2015\_1561.jpg



WS view: exposed pipe and power pole on levee slope.

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>1.78</b>             | Rating **    | M  | Issue No.              | <b>50</b>     |
| LM End   | <b>1.78</b>             | Issue Type + | Ma | Location *             | WS            |
| Category   | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item   | Erosion / Bank Caving   |              |    | 38.353249 °            | 38.353249 °   |
|  |                         |              |    | -121.572848 °          | -121.572848 ° |
| DWR ID   | DWR_RD0150_03_s_2012_50 |              |    |                        |               |
| Action/Comments  |                         |              |    |                        |               |
| Note and monitor erosion site.<br>Inspector Comments: Erosion appeared under the pipe. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_50\_20150911\_00041.jpg



Steps were dug next to the pipe and also erosion was found near the vicinity of the pipe on the waterside slope of the levee looking upstream.

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>2.24</b>             | Rating **    | M  | Issue No.              | <b>75</b>     |
| LM End  | <b>2.24</b>             | Issue Type + | Ma | Location *             | LS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Vegetation              |              |    | 38.353811 °            | 38.353811 °   |
|   |                         |              |    | -121.565668 °          | -121.565668 ° |
| DWR ID  | DWR_RD0150_03_f_2014_75 |              |    |                        |               |
| Action/Comments   |                         |              |    |                        |               |
| Remove the wild growth other than native grasses from the levee slopes.<br>Inspector Comments: Newly planted tree was found on the landside slope of the levee. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_75\_20150911\_00070.jpg



View of a few trees that were planted on the landside slope of the levee looking upstream.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side<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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|   |                         |              |                        |               |           |
|---|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start  | <b>2.31</b>             | Rating **    | M                      | Issue No.     | <b>78</b> |
| LM End  | <b>2.31</b>             | Issue Type + | En                     | Location *    | LS        |
| Category  | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|   |                         |              | Start                  | End           |           |
| Item  | Encroachments           |              | 38.354286 °            | 38.354286 °   |           |
|   |                         |              | -121.564494 °          | -121.564494 ° |           |
| DWR ID  | DWR_RD0150_03_s_2012_78 |              |                        |               |           |
| Action/Comments   |                         |              |                        |               |           |
| Tree or limb<br>Inspector Comments: New tree was planted on the landside slope. |                         |              |                        |               |           |

Photo 1 of 4 : FA\_2015\_RD0150\_17\_78\_20150911\_00074.jpg



Updated picture of the trees on the landside of the levee during spring 2015 inspection.

|          |             |              |    |            |                  |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | <b>2.31</b> | Rating **    | M  | Issue No.  | <b>78 (cont)</b> |
| LM End   | <b>2.31</b> | Issue Type + | En | Location * | LS               |

Photo 2 of 4 : FA\_2015\_RD0150\_17\_78\_20150911\_00075.jpg



View of the newly planted tree on the landside slope of the levee during spring 2014 inspection.

|          |             |              |    |            |                  |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | <b>2.31</b> | Rating **    | M  | Issue No.  | <b>78 (cont)</b> |
| LM End   | <b>2.31</b> | Issue Type + | En | Location * | LS               |

Photo 3 of 4 : FA\_2015\_RD0150\_17\_78\_20150911\_00076.jpg



Several newly planted trees were found on the landside slope of the levee looking upstream during the fall 2013 inspection.

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|   |                         |              |                        |               |                  |
|---|-------------------------|--------------|------------------------|---------------|------------------|
| LM Start  | <b>2.31</b>             | Rating **    | M                      | Issue No.     | <b>78 (cont)</b> |
| LM End  | <b>2.31</b>             | Issue Type + | En                     | Location *    | LS               |
| Category  | Earthen Levee           |              | GPS Latitude/Longitude |               |                  |
|   |                         |              | Start                  | End           |                  |
| Item  | Encroachments           |              | 38.354286 °            | 38.354286 °   |                  |
|   |                         |              | -121.564494 °          | -121.564494 ° |                  |
| DWR ID  | DWR_RD0150_03_s_2012_78 |              |                        |               |                  |
| Action/Comments   |                         |              |                        |               |                  |
| Tree or limb<br>Inspector Comments: New tree was planted on the landside slope. |                         |              |                        |               |                  |

Photo 4 of 4 : FA\_2015\_RD0150\_17\_78\_20150911\_00078.jpg



New tree was planted on the landside of the levee looking downstream.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>2.55</b>             | Rating **    | N                      | Issue No.     | <b>11</b> |
| LM End          | <b>2.55</b>             | Issue Type + | Ma                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Trim / Thin Trees       |              | 38.356853 °            | 38.356853 °   |           |
|                 |                         |              | -121.561565 °          | -121.561565 ° |           |
| DWR ID          | DWR_RD0150_03_s_2012_11 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Tree stumps.    |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_11\_20150911\_00008.jpg



View of tree stumps on the landward slope.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>2.66</b>             | Rating **    | M                      | Issue No.     | <b>34</b> |
| LM End          | <b>2.66</b>             | Issue Type + | En                     | Location *    | WS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Encroachments           |              | 38.358406 °            | 38.358406 °   |           |
|                 |                         |              | -121.561300 °          | -121.561300 ° |           |
| DWR ID          | DWR_RD0150_03_s_2013_34 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Pipe            |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_34\_20150911\_00027.jpg



A pipe was found on the waterside shoulder of the levee looking downstream during spring 2013 inspection.

|   |  |   |
|---|--|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|   |                         |              |                        |               |           |
|---|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start  | <b>2.80</b>             | Rating **    | M                      | Issue No.     | <b>35</b> |
| LM End  | <b>2.80</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category  | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|   |                         |              | Start                  | End           |           |
| Item  | Erosion / Bank Caving   |              | 38.360432 °            | 38.360432 °   |           |
|   |                         |              | -121.561644 °          | -121.561644 ° |           |
| DWR ID  | DWR_RD0150_03_s_2013_35 |              |                        |               |           |
| Action/Comments   |                         |              |                        |               |           |
| Schedule repair of erosion site prior to the next inspection. |                         |              |                        |               |           |

Photo 1 of 2 : FA\_2015\_RD0150\_17\_35\_20150911\_00028.jpg



Updated picture of the erosion on the waterside of the levee during spring 2015 inspection.

|          |             |              |    |            |                  |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | <b>2.80</b> | Rating **    | M  | Issue No.  | <b>35 (cont)</b> |
| LM End   | <b>2.80</b> | Issue Type + | Ma | Location * | WS               |

Photo 2 of 2 : FA\_2015\_RD0150\_17\_35\_20150911\_00029.jpg



Updated picture of the erosion on the waterside slope of the levee during spring 2014 inspection.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>2.82</b>             | Rating **    | N                      | Issue No.     | <b>17</b> |
| LM End          | <b>2.82</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Trim / Thin Trees       |              | 38.360621 °            | 38.360621 °   |           |
|                 |                         |              | -121.561762 °          | -121.561762 ° |           |
| DWR ID          | DWR_RD0150_03_s_2012_17 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Tree stumps.    |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_17\_20150911\_00015.jpg



View of tree stumps on the waterward slope.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side<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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|                           |                         |              |    |                        |               |
|---------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start                  | <b>2.87</b>             | Rating **    | C  | Issue No.              | <b>76</b>     |
| LM End                    | <b>2.87</b>             | Issue Type + | Ma | Location *             | WS            |
| Category                  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                           |                         |              |    | Start                  | End           |
| Item                      | Slope Stability         |              |    | 38.361375 °            | 38.361375 °   |
|                           |                         |              |    | -121.562134 °          | -121.562134 ° |
| DWR ID                    | DWR_RD0150_03_s_2012_76 |              |    |                        |               |
| Action/Comments           |                         |              |    |                        |               |
| Repair slope instability. |                         |              |    |                        |               |

No Photos

|                 |                         |              |    |                        |               |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start        | <b>3.15</b>             | Rating **    | N  | Issue No.              | <b>20</b>     |
| LM End          | <b>3.15</b>             | Issue Type + | Ma | Location *             | WS            |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                 |                         |              |    | Start                  | End           |
| Item            | Trim / Thin Trees       |              |    | 38.363658 °            | 38.363658 °   |
|                 |                         |              |    | -121.559583 °          | -121.559583 ° |
| DWR ID          | DWR_RD0150_03_s_2012_20 |              |    |                        |               |
| Action/Comments |                         |              |    |                        |               |
| Tree stumps.    |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_20\_20150911\_00016.jpg



View of tree stumps on the waterward slope.

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>3.20</b>             | Rating **    | M  | Issue No.              | <b>77</b>     |
| LM End   | <b>3.20</b>             | Issue Type + | Ma | Location *             | WS            |
| Category   | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item   | Animal Control          |              |    | 38.363364 °            | 38.363364 °   |
|  |                         |              |    | -121.558682 °          | -121.558682 ° |
| DWR ID   | DWR_RD0150_03_f_2014_77 |              |    |                        |               |
| Action/Comments  |                         |              |    |                        |               |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_77\_20150911\_00073.jpg



A rodent hole was found on the waterside of the levee looking upstream.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side<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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|   |                          |              |    |                        |               |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>3.28</b>              | Rating **    | M  | Issue No.              | <b>113</b>    |
| LM End  | <b>3.28</b>              | Issue Type + | En | Location *             | LS            |
| Category  | Earthen Levee            |              |    | GPS Latitude/Longitude |               |
|   |                          |              |    | Start                  | End           |
| Item  | Encroachments            |              |    | 38.362992 °            | 38.362992 °   |
|   |                          |              |    | -121.557275 °          | -121.557275 ° |
| DWR ID  | DWR_RD0150_03_f_2013_113 |              |    |                        |               |
| Action/Comments   |                          |              |    |                        |               |
| Pole<br>Inspector Comments: Unused pole on the landside shoulder of the levee |                          |              |    |                        |               |

No Photos

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>3.31</b>             | Rating **    | M  | Issue No.              | <b>40</b>     |
| LM End  | <b>3.31</b>             | Issue Type + | Ma | Location *             | WS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Erosion / Bank Caving   |              |    | 38.363008 °            | 38.363008 °   |
|   |                         |              |    | -121.556751 °          | -121.556751 ° |
| DWR ID  | DWR_RD0150_03_s_2013_40 |              |    |                        |               |
| Action/Comments   |                         |              |    |                        |               |
| Schedule repair of erosion site prior to the next inspection. |                         |              |    |                        |               |

Photo 1 of 2 : FA\_2015\_RD0150\_17\_40\_20150911\_00033.jpg



Updated picture of the erosion on the waterside of the levee during spring 2015 inspection.

|          |             |              |    |            |                  |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | <b>3.31</b> | Rating **    | M  | Issue No.  | <b>40 (cont)</b> |
| LM End   | <b>3.31</b> | Issue Type + | Ma | Location * | WS               |

Photo 2 of 2 : FA\_2015\_RD0150\_17\_40\_20150911\_00034.jpg



Updated picture of the erosion on the waterside of the levee looking upstream during fall 2014 inspection.

|   |  |   |
|---|--|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>3.34</b>             | Rating **    | N                      | Issue No.     | <b>27</b> |
| LM End          | <b>3.34</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Trim / Thin Trees       |              | 38.363147 °            | 38.363147 °   |           |
|                 |                         |              | -121.556190 °          | -121.556190 ° |           |
| DWR ID          | DWR_RD0150_03_s_2012_27 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Tree stumps.    |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_27\_20150911\_00020.jpg



View of tree stumps on the waterside slope looking upstream.

|  |                      |              |                        |               |            |
|--|----------------------|--------------|------------------------|---------------|------------|
| LM Start   | <b>3.39</b>          | Rating **    | M                      | Issue No.     | <b>955</b> |
| LM End   | <b>3.39</b>          | Issue Type + | En                     | Location *    | WS         |
| Category   | Supplemental         |              | GPS Latitude/Longitude |               |            |
|  |                      |              | Start                  | End           |            |
| Item   | DWR UCIP Field Study |              | 38.363520 °            | 38.363520 °   |            |
|  |                      |              | -121.555571 °          | -121.555571 ° |            |
| DWR ID   |                      |              |                        |               |            |
| Action/Comments  |                      |              |                        |               |            |
| Inspector Comments: FS_ID:41729<br>DS_ID:22439<br>EP_NO: N/A<br>FS_HLM: 3.451<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: Leaky concrete standpipe on landside levee toe creating some erosion.- pump was working at the time of inspection.<br>FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 3.7 feet below the crown. Service pole on the waterward slope and pump on piling in the stream. Concrete stand pipe on landside levee toe. (A. Pylman) O&M Manual SAC 112, March 1957.<br>FS Date: 08/20/2013 |                      |              |                        |               |            |

Photo 1 of 3 : UCIP\_FA\_2015\_1836.jpg



LS view: exposed pipe on 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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|          |                      |              |    |                        |                   |
|----------|----------------------|--------------|----|------------------------|-------------------|
| LM Start | <b>3.39</b>          | Rating **    | M  | Issue No.              | <b>955 (cont)</b> |
| LM End   | <b>3.39</b>          | Issue Type + | En | Location *             | WS                |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |                   |
|          |                      |              |    | Start                  | End               |
| Item     | DWR UCIP Field Study |              |    | 38.363520 °            | 38.363520 °       |
|          |                      |              |    | -121.555571 °          | -121.555571 °     |
| DWR ID   |                      |              |    |                        |                   |

**Action/Comments**

Inspector Comments: FS\_ID:41729  
 DS\_ID:22439  
 EP\_NO: N/A  
 FS\_HLM: 3.451  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: Leaky concrete standpipe on landside levee toe creating some erosion.- pump was working at the time of inspection.  
 FIELD\_STRUCT\_DESC: 8-inch steel pipe through the levee, 3.7 feet below the crown. Service pole on the waterward slope and pump on piling in the stream. Concrete stand pipe on landside levee toe. (A. Pylman) O&M Manual SAC 112, March 1957.  
 FS Date: 08/20/2013

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>3.39</b> | Rating **    | M  | Issue No.  | <b>955 (cont)</b> |
| LM End   | <b>3.39</b> | Issue Type + | En | Location * | WS                |

Photo 2 of 3 : UCIP\_FA\_2015\_1837.jpg



WS view: steel pipe & pump, walkway, pump support in the channel.

Photo 3 of 3 : UCIP\_FA\_2015\_1908.jpg



WS view: exposed pipe, walkway, service pole on levee slope and pump support in channel.

|   |  |   |   |
|---|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|                 |                          |              |                        |               |            |
|-----------------|--------------------------|--------------|------------------------|---------------|------------|
| LM Start        | <b>3.39</b>              | Rating **    | M                      | Issue No.     | <b>114</b> |
| LM End          | <b>3.39</b>              | Issue Type + | Ma                     | Location *    | WS         |
| Category        | Earthen Levee            |              | GPS Latitude/Longitude |               |            |
|                 |                          |              | Start                  | End           |            |
| Item            | Encroachments            |              | 38.363540 °            | 38.363540 °   |            |
|                 |                          |              | -121.555555 °          | -121.555555 ° |            |
| DWR ID          | DWR_RD0150_03_f_2013_114 |              |                        |               |            |
| Action/Comments |                          |              |                        |               |            |
| Stairway        |                          |              |                        |               |            |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_114\_20150911\_00092.jpg



View of steps that were dug on the waterside slope of the levee looking upstream.

|  |                          |              |                        |               |            |
|--|--------------------------|--------------|------------------------|---------------|------------|
| LM Start   | <b>3.39</b>              | Rating **    | U                      | Issue No.     | <b>115</b> |
| LM End   | <b>3.39</b>              | Issue Type + | Ma                     | Location *    | LS         |
| Category   | Earthen Levee            |              | GPS Latitude/Longitude |               |            |
|  |                          |              | Start                  | End           |            |
| Item   | Erosion / Bank Caving    |              | 38.363540 °            | 38.363540 °   |            |
|  |                          |              | -121.555554 °          | -121.555554 ° |            |
| DWR ID   | DWR_RD0150_03_f_2013_115 |              |                        |               |            |
| Action/Comments  |                          |              |                        |               |            |
| Schedule repair of erosion site prior to the next inspection.<br>Inspector Comments: Erosion (ditch) was found on the landside toe of the levee. |                          |              |                        |               |            |

Photo 1 of 2 : FA\_2015\_RD0150\_17\_115\_20151119\_00121.jpg



Updated picture of the ditch on the landside toe of the levee during fall 2015 inspection.

|  |   |   |
|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                          |              |                        |               |                   |
|--|--------------------------|--------------|------------------------|---------------|-------------------|
| LM Start   | <b>3.39</b>              | Rating **    | U                      | Issue No.     | <b>115 (cont)</b> |
| LM End   | <b>3.39</b>              | Issue Type + | Ma                     | Location *    | LS                |
| Category   | Earthen Levee            |              | GPS Latitude/Longitude |               |                   |
|  |                          |              | Start                  | End           |                   |
| Item   | Erosion / Bank Caving    |              | 38.363540 °            | 38.363540 °   |                   |
|  |                          |              | -121.555554 °          | -121.555554 ° |                   |
| DWR ID   | DWR_RD0150_03_f_2013_115 |              |                        |               |                   |
| Action/Comments  |                          |              |                        |               |                   |
| Schedule repair of erosion site prior to the next inspection.<br>Inspector Comments: Erosion (ditch) was found on the landside toe of the levee. |                          |              |                        |               |                   |

Photo 2 of 2 : FA\_2015\_RD0150\_17\_115\_20150911\_00094.jpg



A drainage ditch with depth of 4 feet and width of 15 feet was found on the landside toe of the levee. The picture was taken from the landside slope looking upstream during the fall 2013 inspection.

|   |                         |              |                        |               |           |
|---|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start  | <b>3.41</b>             | Rating **    | U                      | Issue No.     | <b>98</b> |
| LM End  | <b>3.41</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category  | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|   |                         |              | Start                  | End           |           |
| Item  | Erosion / Bank Caving   |              | 38.363803 °            | 38.363803 °   |           |
|   |                         |              | -121.555432 °          | -121.555432 ° |           |
| DWR ID  | DWR_RD0150_03_s_2012_98 |              |                        |               |           |
| Action/Comments   |                         |              |                        |               |           |
| Note and monitor erosion site.<br>Inspector Comments: Erosion was located on the waterside of the levee looking downstream. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_98\_20150911\_00091.jpg



Erosion was found on the waterside of the levee looking downstream.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>3.44</b>             | Rating **    | M                      | Issue No.     | <b>47</b> |
| LM End          | <b>3.48</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Vegetation              |              | 38.364251 °            | 38.364772 °   |           |
|                 |                         |              | -121.555321 °          | -121.555343 ° |           |
| DWR ID          | DWR_RD0150_03_s_2012_47 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Landscaping     |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_47\_20150911\_00039.jpg



Landscaping & garden on landward slope of levee at LM 3.50 to LM 3.54.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side<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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>3.51</b>             | Rating **    | M  | Issue No.              | <b>42</b>     |
| LM End   | <b>3.51</b>             | Issue Type + | Ma | Location *             | WS            |
| Category   | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item   | Animal Control          |              |    | 38.365259 °            | 38.365259 °   |
|  |                         |              |    | -121.555429 °          | -121.555429 ° |
| DWR ID   | DWR_RD0150_03_f_2015_42 |              |    |                        |               |
| Action/Comments  |                         |              |    |                        |               |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_42\_20151119\_00122.jpg



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

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>3.66</b>          | Rating **    | U  | Issue No.              | <b>956</b>    |
| LM End   | <b>3.66</b>          | Issue Type + | En | Location *             | WS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 38.367213 °            | 38.367213 °   |
|  |                      |              |    | -121.555273 °          | -121.555273 ° |
| DWR ID   |                      |              |    |                        |               |
| Action/Comments  |                      |              |    |                        |               |
| Inspector Comments: FS_ID:20766<br>DS_ID:22440<br>EP_NO: N/A<br>FS_HLM: 3.722<br>Repair Type: Urgent<br>Crossing Status: Found<br>UCIP Comments: Concrete standpipe on LS. Levee damage. Gate valve on WS not found. Safety valve on WS pipe.<br>FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 5.9 feet below the crown. Pump on the waterward slope. Concrete standpipe at the landward toe. (R. & J. Pylman) O&M Manual SAC 112, March 1957.<br>FS Date: 08/20/2013 |                      |              |    |                        |               |

Photo 1 of 3 : UCIP\_FA\_2015\_1909.jpg



WS view: soil erosion (depression) on levee slope.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|          |                      |              |    |                        |                   |
|----------|----------------------|--------------|----|------------------------|-------------------|
| LM Start | <b>3.66</b>          | Rating **    | U  | Issue No.              | <b>956 (cont)</b> |
| LM End   | <b>3.66</b>          | Issue Type + | En | Location *             | WS                |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |                   |
|          |                      |              |    | Start                  | End               |
| Item     | DWR UCIP Field Study |              |    | 38.367213 °            | 38.367213 °       |
|          |                      |              |    | -121.555273 °          | -121.555273 °     |
| DWR ID   |                      |              |    |                        |                   |

**Action/Comments**  
 Inspector Comments: FS\_ID:20766  
 DS\_ID:22440  
 EP\_NO: N/A  
 FS\_HLM: 3.722  
 Repair Type: Urgent  
 Crossing Status: Found  
 UCIP Comments: Concrete standpipe on LS. Levee damage. Gate valve on WS not found. Safety valve on WS pipe.  
 FIELD\_STRUCT\_DESC: 12-inch steel pipe through the levee, 5.9 feet below the crown. Pump on the waterward slope. Concrete standpipe at the landward toe. (R. & J. Pylman) O&M Manual SAC 112, March 1957.  
 FS Date: 08/20/2013

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>3.66</b> | Rating **    | U  | Issue No.  | <b>956 (cont)</b> |
| LM End   | <b>3.66</b> | Issue Type + | En | Location * | WS                |

Photo 2 of 3 : UCIP\_FA\_2015\_1948.jpg



WS view: steel pipe and pump on levee slope.

Photo 3 of 3 : UCIP\_FA\_2015\_1949.jpg



WS view: steel pipe with safety valve (marked) on 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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                         |              |                        |               |           |
|--|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start   | <b>3.72</b>             | Rating **    | M                      | Issue No.     | <b>45</b> |
| LM End   | <b>3.72</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category   | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|  |                         |              | Start                  | End           |           |
| Item   | Animal Control          |              | 38.367381 °            | 38.367381 °   |           |
|  |                         |              | -121.554102 °          | -121.554102 ° |           |
| DWR ID   | DWR_RD0150_03_f_2015_45 |              |                        |               |           |
| Action/Comments  |                         |              |                        |               |           |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.<br>Inspector Comments: Rodent holes with shallow depth was found. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_45\_20151119\_00123.jpg



View of rodent holes on the waterside shoulder of the levee.

|                           |                          |              |                        |               |            |
|---------------------------|--------------------------|--------------|------------------------|---------------|------------|
| LM Start                  | <b>3.79</b>              | Rating **    | M                      | Issue No.     | <b>116</b> |
| LM End                    | <b>3.79</b>              | Issue Type + | Ma                     | Location *    | WS         |
| Category                  | Earthen Levee            |              | GPS Latitude/Longitude |               |            |
|                           |                          |              | Start                  | End           |            |
| Item                      | Slope Stability          |              | 38.367535 °            | 38.367535 °   |            |
|                           |                          |              | -121.552815 °          | -121.552815 ° |            |
| DWR ID                    | DWR_RD0150_03_f_2013_116 |              |                        |               |            |
| Action/Comments           |                          |              |                        |               |            |
| Repair slope instability. |                          |              |                        |               |            |

No Photos

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>4.28</b>             | Rating **    | N                      | Issue No.     | <b>37</b> |
| LM End          | <b>4.28</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Trim / Thin Trees       |              | 38.373319 °            | 38.373319 °   |           |
|                 |                         |              | -121.550836 °          | -121.550836 ° |           |
| DWR ID          | DWR_RD0150_03_s_2012_37 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Tree stumps.    |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_37\_20150911\_00032.jpg



View of tree stumps on the waterward 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 | 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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>4.38</b>             | Rating **    | M                      | Issue No.     | <b>51</b> |
| LM End          | <b>4.38</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Encroachments           |              | 38.374269 °            | 38.374269 °   |           |
|                 |                         |              | -121.549385 °          | -121.549385 ° |           |
| DWR ID          | DWR_RD0150_03_s_2012_51 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Prunings        |                         |              |                        |               |           |

Photo 1 of 4 : FA\_2015\_RD0150\_17\_51\_20150911\_00043.jpg



Remove pruning pile on landward slope at LM 4.46.

|          |             |              |    |            |                  |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | <b>4.38</b> | Rating **    | M  | Issue No.  | <b>51 (cont)</b> |
| LM End   | <b>4.38</b> | Issue Type + | En | Location * | LS               |

Photo 2 of 4 : FA\_2015\_RD0150\_17\_51\_20150911\_00044.jpg



Prunings were found on the landside of the levee looking downstream.

|          |             |              |    |            |                  |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | <b>4.38</b> | Rating **    | M  | Issue No.  | <b>51 (cont)</b> |
| LM End   | <b>4.38</b> | Issue Type + | En | Location * | LS               |

Photo 3 of 4 : FA\_2015\_RD0150\_17\_51\_20150911\_00045.jpg



Prunings were found on the landside of the levee looking upstream. This picture was taken during fall 2012 inspection.

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|                 |                         |              |    |                        |                  |
|-----------------|-------------------------|--------------|----|------------------------|------------------|
| LM Start        | <b>4.38</b>             | Rating **    | M  | Issue No.              | <b>51 (cont)</b> |
| LM End          | <b>4.38</b>             | Issue Type + | En | Location *             | LS               |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |                  |
|                 |                         |              |    | Start                  | End              |
| Item            | Encroachments           |              |    | 38.374269 °            | 38.374269 °      |
|                 |                         |              |    | -121.549385 °          | -121.549385 °    |
| DWR ID          | DWR_RD0150_03_s_2012_51 |              |    |                        |                  |
| Action/Comments |                         |              |    |                        |                  |
| Prunings        |                         |              |    |                        |                  |

Photo 4 of 4 : FA\_2015\_RD0150\_17\_51\_20150911\_00046.jpg



Updated picture of the pruning pile on the landside of the levee looking upstream during the fall 2013 inspection.

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>4.49</b>             | Rating **    | M  | Issue No.              | <b>80</b>     |
| LM End  | <b>4.49</b>             | Issue Type + | Ma | Location *             | WS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Erosion / Bank Caving   |              |    | 38.374355 °            | 38.374355 °   |
|   |                         |              |    | -121.547436 °          | -121.547436 ° |
| DWR ID  | DWR_RD0150_03_s_2014_80 |              |    |                        |               |
| Action/Comments   |                         |              |    |                        |               |
| Schedule repair of erosion site prior to the next inspection. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_80\_20150911\_00079.jpg



View of an erosion site on the waterside toe of the levee looking upstream.

|                 |                         |              |    |                        |               |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start        | <b>4.49</b>             | Rating **    | M  | Issue No.              | <b>94</b>     |
| LM End          | <b>4.49</b>             | Issue Type + | En | Location *             | LS            |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                 |                         |              |    | Start                  | End           |
| Item            | Vegetation              |              |    | 38.374367 °            | 38.374367 °   |
|                 |                         |              |    | -121.547327 °          | -121.547327 ° |
| DWR ID          | DWR_RD0150_03_s_2012_94 |              |    |                        |               |
| Action/Comments |                         |              |    |                        |               |
| Landscaping     |                         |              |    |                        |               |

No Photos

|  |  |  |   |
|--|--|--|---|
| <b>* Location</b><br>LS : Land Side<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <b>N : Not Inspected/Rated</b><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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>4.63</b>          | Rating **    | M  | Issue No.              | <b>957</b>    |
| LM End   | <b>4.63</b>          | Issue Type + | En | Location *             | LS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 38.374934 °            | 38.374934 °   |
|  |                      |              |    | -121.545029 °          | -121.545029 ° |
| DWR ID   |                      |              |    |                        |               |
| Action/Comments  |                      |              |    |                        |               |
| Inspector Comments: FS_ID:19281<br>DS_ID:22444<br>EP_NO: N/A<br>FS_HLM: 4.7117<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: - service pole on LS. 1" conduit on WS. - levee toe cut out on landside.- walkway and gate.<br>FIELD_STRUCT_DESC: 10-inch steel pipe through the levee, 3.8 feet below the crown, pump on piling in stream. Concrete standpipe at the landward toe. (P. Cook) O&M Manual SAC 112, March 1957.<br>FS Date: 08/20/2013 |                      |              |    |                        |               |

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>4.63</b> | Rating **    | M  | Issue No.  | <b>957 (cont)</b> |
| LM End   | <b>4.63</b> | Issue Type + | En | Location * | LS                |

Photo 1 of 3 : UCIP\_FA\_2015\_1399.jpg



WS view: safety valve on steel pipe.

Photo 2 of 3 : UCIP\_FA\_2015\_1400.jpg



WS view: 1-inch GI conduit (left) and steel pipe (right)

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|   |                      |              |    |                        |                   |
|---|----------------------|--------------|----|------------------------|-------------------|
| LM Start  | <b>4.63</b>          | Rating **    | M  | Issue No.              | <b>957 (cont)</b> |
| LM End  | <b>4.63</b>          | Issue Type + | En | Location *             | LS                |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |                   |
|   |                      |              |    | Start                  | End               |
| Item  | DWR UCIP Field Study |              |    | 38.374934 °            | 38.374934 °       |
|   |                      |              |    | -121.545029 °          | -121.545029 °     |
| DWR ID  |                      |              |    |                        |                   |
| Action/Comments   |                      |              |    |                        |                   |
| Inspector Comments: FS_ID:19281<br>DS_ID:22444<br>EP_NO: N/A<br>FS_HLM: 4.7117<br>Repair Type: Non-Urgent<br>Crossing Status: Found |                      |              |    |                        |                   |

Photo 3 of 3 : UCIP\_FA\_2015\_1401.jpg



WS view: vertical pump on deck.

|   |                      |              |    |                        |               |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>4.90</b>          | Rating **    | M  | Issue No.              | <b>958</b>    |
| LM End  | <b>4.90</b>          | Issue Type + | En | Location *             | LS            |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |               |
|   |                      |              |    | Start                  | End           |
| Item  | DWR UCIP Field Study |              |    | 38.377718 °            | 38.377718 °   |
|   |                      |              |    | -121.541413 °          | -121.541413 ° |
| DWR ID  |                      |              |    |                        |               |
| Action/Comments   |                      |              |    |                        |               |
| Inspector Comments: FS_ID:19283<br>DS_ID:22445<br>EP_NO: N/A<br>FS_HLM: 4.993<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: - seems abandoned.- may need proper abandonment<br>FIELD_STRUCT_DESC: Abandoned 10-inch steel pipe through the levee, 7.2 feet below the crown, gate valve on the landward end. (D. Conner) O&M Manual SAC 112, March 1957.<br>FS Date: 08/23/2013 |                      |              |    |                        |               |

Photo 1 of 3 : UCIP\_FA\_2015\_1402.jpg



LS view: abandoned pump and gate valve on 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 | <b>N : Not Inspected/Rated</b><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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|   |                      |              |    |                        |                   |
|---|----------------------|--------------|----|------------------------|-------------------|
| LM Start  | <b>4.90</b>          | Rating **    | M  | Issue No.              | <b>958 (cont)</b> |
| LM End  | <b>4.90</b>          | Issue Type + | En | Location *             | LS                |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |                   |
|   |                      |              |    | Start                  | End               |
| Item  | DWR UCIP Field Study |              |    | 38.377718 °            | 38.377718 °       |
|   |                      |              |    | -121.541413 °          | -121.541413 °     |
| DWR ID  |                      |              |    |                        |                   |
| Action/Comments   |                      |              |    |                        |                   |
| Inspector Comments: FS_ID:19283<br>DS_ID:22445<br>EP_NO: N/A<br>FS_HLM: 4.993<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: - seems abandoned.- may need proper abandonment<br>FIELD_STRUCT_DESC: Abandoned 10-inch steel pipe through the levee, 7.2 feet below the crown, gate valve on the landward end. (D. Conner) O&M Manual SAC 112, March 1957.<br>FS Date: 08/23/2013 |                      |              |    |                        |                   |

Photo 2 of 3 : UCIP\_FA\_2015\_1403.jpg



LS view: abandoned pump set and concrete box on levee slope.

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>4.90</b> | Rating **    | M  | Issue No.  | <b>958 (cont)</b> |
| LM End   | <b>4.90</b> | Issue Type + | En | Location * | LS                |

Photo 3 of 3 : UCIP\_FA\_2015\_1404.jpg



WS view: steel pipe on levee slope and in the stream.

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|                 |                        |              |                        |               |          |
|-----------------|------------------------|--------------|------------------------|---------------|----------|
| LM Start        | <b>4.91</b>            | Rating **    | M                      | Issue No.     | <b>9</b> |
| LM End          | <b>4.91</b>            | Issue Type + | En                     | Location *    | LS       |
| Category        | Earthen Levee          |              | GPS Latitude/Longitude |               |          |
|                 |                        |              | Start                  | End           |          |
| Item            | Encroachments          |              | 38.377761 °            | 38.377761 °   |          |
|                 |                        |              | -121.541319 °          | -121.541319 ° |          |
| DWR ID          | DWR_RD0150_03_s_2012_9 |              |                        |               |          |
| Action/Comments |                        |              |                        |               |          |
| Equipment       |                        |              |                        |               |          |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_9\_20150911\_00007.jpg



Equipment on the landside toe of the levee. The picture was taken from crown looking downstream.

|                           |                         |              |                        |               |           |
|---------------------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start                  | <b>4.99</b>             | Rating **    | M                      | Issue No.     | <b>36</b> |
| LM End                    | <b>4.99</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category                  | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                           |                         |              | Start                  | End           |           |
| Item                      | Slope Stability         |              | 38.378771 °            | 38.378771 °   |           |
|                           |                         |              | -121.540538 °          | -121.540538 ° |           |
| DWR ID                    | DWR_RD0150_03_f_2012_36 |              |                        |               |           |
| Action/Comments           |                         |              |                        |               |           |
| Repair slope instability. |                         |              |                        |               |           |

Photo 1 of 2 : FA\_2015\_RD0150\_17\_36\_20151119\_00124.jpg



Updated picture of the slope instability of the waterside shoulder of the levee during fall 2015 inspection.

|          |             |              |    |            |                  |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | <b>4.99</b> | Rating **    | M  | Issue No.  | <b>36 (cont)</b> |
| LM End   | <b>4.99</b> | Issue Type + | Ma | Location * | WS               |

Photo 2 of 2 : FA\_2015\_RD0150\_17\_36\_20150911\_00031.jpg



Slope instability was found on the waterside of the levee looking upstream.

|   |  |   |
|---|--|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|                           |                        |              |    |                        |               |
|---------------------------|------------------------|--------------|----|------------------------|---------------|
| LM Start                  | <b>5.04</b>            | Rating **    | M  | Issue No.              | <b>4</b>      |
| LM End                    | <b>5.04</b>            | Issue Type + | Ob | Location *             | WS            |
| Category                  | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|                           |                        |              |    | Start                  | End           |
| Item                      | Slope Stability        |              |    | 38.379456 °            | 38.379456 °   |
|                           |                        |              |    | -121.540147 °          | -121.540147 ° |
| DWR ID                    | DWR_RD0150_03_s_2012_4 |              |    |                        |               |
| Action/Comments           |                        |              |    |                        |               |
| Repair slope instability. |                        |              |    |                        |               |

Photo 1 of 2 : FA\_2015\_RD0150\_17\_4\_20150911\_00003.jpg



Updated picture of the slope instability on the waterside slope of the levee looking downstream during the fall 2013 inspection.

|          |             |              |    |            |                 |
|----------|-------------|--------------|----|------------|-----------------|
| LM Start | <b>5.04</b> | Rating **    | M  | Issue No.  | <b>4 (cont)</b> |
| LM End   | <b>5.04</b> | Issue Type + | Ob | Location * | WS              |

Photo 2 of 2 : FA\_2015\_RD0150\_17\_4\_20150911\_00004.jpg



Slope instability was found on the waterside of the levee looking upstream.

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>5.05</b>             | Rating **    | M  | Issue No.              | <b>81</b>     |
| LM End  | <b>5.05</b>             | Issue Type + | Ob | Location *             | WS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Erosion / Bank Caving   |              |    | 38.379608 °            | 38.379608 °   |
|   |                         |              |    | -121.540082 °          | -121.540082 ° |
| DWR ID  | DWR_RD0150_03_f_2014_81 |              |    |                        |               |
| Action/Comments   |                         |              |    |                        |               |
| Schedule repair of erosion site prior to the next inspection. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_81\_20150911\_00080.jpg



View of erosion on the waterside of the levee looking downstream.

|   |  |   |   |
|---|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|   |                         |              |                        |               |           |
|---|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start  | <b>5.09</b>             | Rating **    | M                      | Issue No.     | <b>48</b> |
| LM End  | <b>5.09</b>             | Issue Type + | En                     | Location *    | WS        |
| Category  | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|   |                         |              | Start                  | End           |           |
| Item  | Encroachments           |              | 38.380110 °            | 38.380110 °   |           |
|   |                         |              | -121.540061 °          | -121.540061 ° |           |
| DWR ID  | DWR_RD0150_03_f_2015_48 |              |                        |               |           |
| Action/Comments                                       |                         |              |                        |               |           |
| Stairway<br>Inspector Comments: Unpermitted stairway. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_48\_20151119\_00125.jpg



View of a stairway on the waterside of the levee.

|   |                                       |              |                        |               |            |
|---|---------------------------------------|--------------|------------------------|---------------|------------|
| LM Start  | <b>5.14</b>                           | Rating **    | M                      | Issue No.     | <b>941</b> |
| LM End  | <b>5.14</b>                           | Issue Type + | Ma                     | Location *    | CR         |
| Category  | Earthen Levee                         |              | GPS Latitude/Longitude |               |            |
|   |                                       |              | Start                  | End           |            |
| Item  | Crown Surface / Depressions / Rutting |              | 38.380779 °            | 38.380779 °   |            |
|   |                                       |              | -121.540264 °          | -121.540264 ° |            |
| DWR ID  | DWR_RD0150_03_s_2012_941              |              |                        |               |            |
| Action/Comments   |                                       |              |                        |               |            |
| Repair depressions or ruts in the crown or slope.<br>Inspector Comments: There is a significant difference in the crown roadway elevation as it transitions from the paved roadway to the gravel access road. |                                       |              |                        |               |            |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_941\_20150911\_00107.jpg



View of varying elevations in the crown of the levee at the transition from county road to access road.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>5.51</b>             | Rating **    | M                      | Issue No.     | <b>12</b> |
| LM End          | <b>5.51</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Encroachments           |              | 38.383328 °            | 38.383328 °   |           |
|                 |                         |              | -121.545825 °          | -121.545825 ° |           |
| DWR ID          | DWR_RD0150_03_s_2012_12 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Prunings        |                         |              |                        |               |           |

Photo 1 of 4 : FA\_2015\_RD0150\_17\_12\_20150911\_00009.jpg



Prunings were found on the landside of the levee looking upstream.

|  |  |  |   |
|--|--|--|---|
| <b>* Location</b><br>LS : Land Side<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <b>N : Not Inspected/Rated</b><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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|                 |                         |              |    |                        |                  |
|-----------------|-------------------------|--------------|----|------------------------|------------------|
| LM Start        | <b>5.51</b>             | Rating **    | M  | Issue No.              | <b>12 (cont)</b> |
| LM End          | <b>5.51</b>             | Issue Type + | En | Location *             | LS               |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |                  |
|                 |                         |              |    | Start                  | End              |
| Item            | Encroachments           |              |    | 38.383328 °            | 38.383328 °      |
|                 |                         |              |    | -121.545825 °          | -121.545825 °    |
| DWR ID          | DWR_RD0150_03_s_2012_12 |              |    |                        |                  |
| Action/Comments |                         |              |    |                        |                  |
| Prunings        |                         |              |    |                        |                  |

Photo 2 of 4 : FA\_2015\_RD0150\_17\_12\_20150911\_00010.jpg



Updated picture of pruning pile on the landside toe of the levee looking upstream during the fall 2013 inspection.

|          |             |              |    |            |                  |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | <b>5.51</b> | Rating **    | M  | Issue No.  | <b>12 (cont)</b> |
| LM End   | <b>5.51</b> | Issue Type + | En | Location * | LS               |

Photo 3 of 4 : FA\_2015\_RD0150\_17\_12\_20150911\_00011.jpg



Updated picture of debris and pruning on the landside toe of the levee looking upstream. This picture was taken during spring 2013 inspection.

|          |             |              |    |            |                  |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | <b>5.51</b> | Rating **    | M  | Issue No.  | <b>12 (cont)</b> |
| LM End   | <b>5.51</b> | Issue Type + | En | Location * | LS               |

Photo 4 of 4 : FA\_2015\_RD0150\_17\_12\_20150911\_00012.jpg



Pruning was found on the landside toe of the levee looking upstream. This picture was taken during fall 2012 inspection.

|   |  |   |
|---|--|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>5.56</b>             | Rating **    | N                      | Issue No.     | <b>68</b> |
| LM End          | <b>5.56</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Trim / Thin Trees       |              | 38.383697 °            | 38.383697 °   |           |
|                 |                         |              | -121.545201 °          | -121.545201 ° |           |
| DWR ID          | DWR_RD0150_03_s_2012_68 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Tree stumps.    |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_68\_20150911\_00067.jpg



Tree stump was found on the waterside of the levee looking upstream.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>5.69</b>             | Rating **    | N                      | Issue No.     | <b>41</b> |
| LM End          | <b>5.69</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Trim / Thin Trees       |              | 38.383969 °            | 38.383969 °   |           |
|                 |                         |              | -121.542806 °          | -121.542806 ° |           |
| DWR ID          | DWR_RD0150_03_s_2012_41 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Tree stumps.    |                         |              |                        |               |           |

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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>5.70</b>          | Rating **    | M  | Issue No.              | <b>959</b>    |
| LM End   | <b>5.70</b>          | Issue Type + | En | Location *             | WS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 38.383996 °            | 38.383996 °   |
|  |                      |              |    | -121.542638 °          | -121.542638 ° |
| DWR ID   |                      |              |    |                        |               |
| Action/Comments  |                      |              |    |                        |               |
| Inspector Comments: FS_ID:28265<br>DS_ID:22448<br>EP_NO: N/A<br>FS_HLM: 5.806<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: - levee toe cut out at open end of the pipe.- service pole and control box on river bank.<br>FIELD_STRUCT_DESC: 10-inch steel pipe through the levee, 7.8 feet below crown. Pump and gate valve on steel platform. Cross fence, wire drag gate. (Permit No. 1167, D. Conner) O&M Manual SAC 112, March 1957.<br>FS Date: 08/23/2013 |                      |              |    |                        |               |

Photo 1 of 3 : UCIP\_FA\_2015\_3256.jpg



WS view: pipe, pump and gate valve on pump deck.

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>5.70</b> | Rating **    | M  | Issue No.  | <b>959 (cont)</b> |
| LM End   | <b>5.70</b> | Issue Type + | En | Location * | WS                |

Photo 2 of 3 : UCIP\_FA\_2015\_3257.jpg



WS view: electric control box and power pole.

|  |  |  |   |
|--|--|--|---|
| <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 | <b>N : Not Inspected/Rated</b><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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                      |              |    |                        |                   |
|--|----------------------|--------------|----|------------------------|-------------------|
| LM Start   | <b>5.70</b>          | Rating **    | M  | Issue No.              | <b>959 (cont)</b> |
| LM End   | <b>5.70</b>          | Issue Type + | En | Location *             | WS                |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |                   |
|  |                      |              |    | Start                  | End               |
| Item   | DWR UCIP Field Study |              |    | 38.383996 °            | 38.383996 °       |
|  |                      |              |    | -121.542638 °          | -121.542638 °     |
| DWR ID   |                      |              |    |                        |                   |
| Action/Comments  |                      |              |    |                        |                   |
| Inspector Comments: FS_ID:28265<br>DS_ID:22448<br>EP_NO: N/A<br>FS_HLM: 5.806<br>Repair Type: Non-Urgent<br>Crossing Status: Found |                      |              |    |                        |                   |

Photo 3 of 3 : UCIP\_FA\_2015\_3258.jpg



WS view: walkway, pipe, pump and support deck on river bank.

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>5.78</b>             | Rating **    | M  | Issue No.              | <b>28</b>     |
| LM End  | <b>5.78</b>             | Issue Type + | Ma | Location *             | WS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Vegetation              |              |    | 38.384333 °            | 38.384333 °   |
|   |                         |              |    | -121.541310 °          | -121.541310 ° |
| DWR ID  | DWR_RD0150_03_s_2012_28 |              |    |                        |               |
| Action/Comments   |                         |              |    |                        |               |
| Remove the wild growth other than native grasses from the levee slopes. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_28\_20150911\_00021.jpg



Wild growth was found on the waterside slope of the levee looking upstream.

|                 |                         |              |    |                        |               |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start        | <b>5.79</b>             | Rating **    | M  | Issue No.              | <b>56</b>     |
| LM End          | <b>5.83</b>             | Issue Type + | En | Location *             | LS            |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                 |                         |              |    | Start                  | End           |
| Item            | Encroachments           |              |    | 38.384363 °            | 38.384796 °   |
|                 |                         |              |    | -121.541161 °          | -121.540525 ° |
| DWR ID          | DWR_RD0150_03_s_2012_56 |              |    |                        |               |
| Action/Comments |                         |              |    |                        |               |
| Fence           |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_56\_20150911\_00049.jpg



View of fence around a horse pen along the shoulder of the levee and the landward slope.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>5.82</b>             | Rating **    | M                      | Issue No.     | <b>57</b> |
| LM End          | <b>5.82</b>             | Issue Type + | Ma                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Encroachments           |              | 38.384648 °            | 38.384648 °   |           |
|                 |                         |              | -121.540669 °          | -121.540669 ° |           |
| DWR ID          | DWR_RD0150_03_s_2012_57 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Tree or limb    |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_57\_20150911\_00050.jpg



View of a tree trunk lying on the landward slope blocking visibility.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>5.83</b>             | Rating **    | U                      | Issue No.     | <b>58</b> |
| LM End          | <b>5.83</b>             | Issue Type + | En                     | Location *    | CR        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Encroachments           |              | 38.384803 °            | 38.384803 °   |           |
|                 |                         |              | -121.540545 °          | -121.540545 ° |           |
| DWR ID          | DWR_RD0150_03_s_2012_58 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Building        |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_58\_20150911\_00051.jpg



Building & associated landscaping on levee crown.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>5.91</b>             | Rating **    | M                      | Issue No.     | <b>21</b> |
| LM End          | <b>5.98</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Vegetation              |              | 38.385752 °            | 38.386703 °   |           |
|                 |                         |              | -121.539905 °          | -121.540042 ° |           |
| DWR ID          | DWR_RD0150_03_s_2012_21 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Landscaping     |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_21\_20150911\_00017.jpg



Landscaping was found on the landside of the levee looking upstream.

|   |  |   |
|---|--|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>5.95</b>             | Rating **    | M  | Issue No.              | <b>33</b>     |
| LM End  | <b>5.95</b>             | Issue Type + | Ma | Location *             | WS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Trim / Thin Trees       |              |    | 38.386351 °            | 38.386351 °   |
|   |                         |              |    | -121.539828 °          | -121.539828 ° |
| DWR ID  | DWR_RD0150_03_s_2012_33 |              |    |                        |               |
| Action/Comments   |                         |              |    |                        |               |
| Thin trees to allow visibility of the ground and room to flood fight. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_33\_20150911\_00026.jpg



Tree trunks and vegetation was obstructing the visibility on the waterside slope of the levee looking downstream.

|   |                      |              |    |                        |               |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>5.95</b>          | Rating **    | M  | Issue No.              | <b>960</b>    |
| LM End  | <b>5.95</b>          | Issue Type + | En | Location *             | WS            |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |               |
|   |                      |              |    | Start                  | End           |
| Item  | DWR UCIP Field Study |              |    | 38.386402 °            | 38.386402 °   |
|   |                      |              |    | -121.539834 °          | -121.539834 ° |
| DWR ID  |                      |              |    |                        |               |
| Action/Comments   |                      |              |    |                        |               |
| Inspector Comments: FS_ID:19403<br>DS_ID:22451<br>EP_NO: N/A<br>FS_HLM: 6.0618<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: - pipe ends open on both sides of the levee.- abandoned concrete box on WS.- two abandoned steel pipes (6" and 1") also found on WS. - needs proper abandonment<br>FIELD_STRUCT_DESC: Abandoned 6-inch steel pipe through the levee, 2.5 feet below the crown. Power pole on the landward slope. (W. Bogle). O&M Manual SAC 112, March 1957.<br>FS Date: 08/23/2013 |                      |              |    |                        |               |

Photo 1 of 3 : UCIP\_FA\_2015\_2082.jpg



WS view: Abandoned concrete box (top). Open ended 6" steel pipe, 1" steel pipe, and another 6" steel pipe on 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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

| LM Start  | 5.95                 | Rating **    | M     | Issue No.              | 960 (cont)    |
|---|----------------------|--------------|-------|------------------------|---------------|
| LM End  | 5.95                 | Issue Type + | En    | Location *             | WS            |
| Category  | Supplemental         |              |       | GPS Latitude/Longitude |               |
|   |                      |              | Start | End                    |               |
| Item  | DWR UCIP Field Study |              |       | 38.386402 °            | 38.386402 °   |
|   |                      |              |       | -121.539834 °          | -121.539834 ° |
| DWR ID  |                      |              |       |                        |               |
| Action/Comments   |                      |              |       |                        |               |
| Inspector Comments: FS_ID:19403<br>DS_ID:22451<br>EP_NO: N/A<br>FS_HLM: 6.0618<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: - pipe ends open on both sides of the levee.- abandoned concrete box on WS.- two abandoned steel pipes (6" and 1") also found on WS. - needs proper abandonment<br>FIELD_STRUCT_DESC: Abandoned 6-inch steel pipe through the levee, 2.5 feet below the crown. Power pole on the landward slope. (W. Bogle). O&M Manual SAC 112, March 1957.<br>FS Date: 08/23/2013 |                      |              |       |                        |               |

Photo 2 of 3 : UCIP\_FA\_2015\_2083.jpg



WS view: open ended 6" steel pipe (top-left), 1" steel pipe (bottom), and another 6" steel pipe (right) on levee slope.

| LM Start | 5.95 | Rating **    | M  | Issue No.  | 960 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End   | 5.95 | Issue Type + | En | Location * | WS         |

Photo 3 of 3 : UCIP\_FA\_2015\_2084.jpg



LS view: open end steel pipe on levee toe.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                         |              |                        |               |           |
|--|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start   | <b>5.96</b>             | Rating **    | M                      | Issue No.     | <b>46</b> |
| LM End   | <b>5.96</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category   | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|  |                         |              | Start                  | End           |           |
| Item   | Encroachments           |              | 38.386422 °            | 38.386422 °   |           |
|  |                         |              | -121.539861 °          | -121.539861 ° |           |
| DWR ID   | DWR_RD0150_03_s_2012_46 |              |                        |               |           |
| Action/Comments  |                         |              |                        |               |           |
| Pipe<br>Inspector Comments: Improperly abandoned pipe through the levee. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_46\_20150911\_00038.jpg



View of an improperly abandoned pipe through the levee looking upstream.

|  |                         |              |                        |               |           |
|--|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start   | <b>6.03</b>             | Rating **    | M                      | Issue No.     | <b>44</b> |
| LM End   | <b>6.03</b>             | Issue Type + | En                     | Location *    | WS        |
| Category   | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|  |                         |              | Start                  | End           |           |
| Item   | Encroachments           |              | 38.387295 °            | 38.387295 °   |           |
|  |                         |              | -121.540612 °          | -121.540612 ° |           |
| DWR ID   | DWR_RD0150_03_s_2012_44 |              |                        |               |           |
| Action/Comments  |                         |              |                        |               |           |
| Abandoned vehicles<br>Inspector Comments: It appeared to be an abandoned dock. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_44\_20150911\_00037.jpg



An abandoned dock was found on the waterside of the levee looking upstream.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>6.03</b>             | Rating **    | M                      | Issue No.     | <b>23</b> |
| LM End          | <b>6.03</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Vegetation              |              | 38.387348 °            | 38.387348 °   |           |
|                 |                         |              | -121.540577 °          | -121.540577 ° |           |
| DWR ID          | DWR_RD0150_03_s_2012_23 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Landscaping     |                         |              |                        |               |           |

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 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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>6.13</b>             | Rating **    | U                      | Issue No.     | <b>24</b> |
| LM End          | <b>6.20</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Vegetation              |              | 38.388535 °            | 38.389391 °   |           |
|                 |                         |              | -121.541657 °          | -121.541901 ° |           |
| DWR ID          | DWR_RD0150_03_s_2012_24 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Landscaping     |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_24\_20150911\_00018.jpg



Oleander on landward slope blocking view of levee.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>6.23</b>             | Rating **    | N                      | Issue No.     | <b>49</b> |
| LM End          | <b>6.23</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Trim / Thin Trees       |              | 38.389658 °            | 38.389658 °   |           |
|                 |                         |              | -121.541518 °          | -121.541518 ° |           |
| DWR ID          | DWR_RD0150_03_s_2012_49 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Tree stumps.    |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_49\_20150911\_00040.jpg



View of tree stumps on the waterward slope.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>6.23</b>             | Rating **    | M                      | Issue No.     | <b>25</b> |
| LM End          | <b>6.25</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Vegetation              |              | 38.389700 °            | 38.389808 °   |           |
|                 |                         |              | -121.541462 °          | -121.541285 ° |           |
| DWR ID          | DWR_RD0150_03_s_2012_25 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Landscaping     |                         |              |                        |               |           |

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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>6.25</b>             | Rating **    | U                      | Issue No.     | <b>26</b> |
| LM End          | <b>6.29</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Vegetation              |              | 38.389858 °            | 38.390115 °   |           |
|                 |                         |              | -121.541155 °          | -121.540657 ° |           |
| DWR ID          | DWR_RD0150_03_s_2012_26 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Landscaping     |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_26\_20150911\_00019.jpg



Landscaping on landward slope.

|  |                         |              |                        |               |           |
|--|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start   | <b>6.38</b>             | Rating **    | U                      | Issue No.     | <b>62</b> |
| LM End   | <b>6.38</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category   | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|  |                         |              | Start                  | End           |           |
| Item   | Trim / Thin Trees       |              | 38.390935 °            | 38.390935 °   |           |
|  |                         |              | -121.539369 °          | -121.539369 ° |           |
| DWR ID   | DWR_RD0150_03_s_2012_62 |              |                        |               |           |
| Action/Comments  |                         |              |                        |               |           |
| Trim and thin trees to allow visibility of the ground and room to flood fight. |                         |              |                        |               |           |

Photo 1 of 2 : FA\_2015\_RD0150\_17\_62\_20150911\_00058.jpg



Tree was blocking the visibility on the waterside of the levee looking upstream. This picture was taken during fall 2012 inspection.

|          |             |              |    |            |                  |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | <b>6.38</b> | Rating **    | U  | Issue No.  | <b>62 (cont)</b> |
| LM End   | <b>6.38</b> | Issue Type + | Ma | Location * | WS               |

Photo 2 of 2 : FA\_2015\_RD0150\_17\_62\_20150911\_00059.jpg



Vegetation on the waterside of the levee looking downstream.

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>6.45</b>             | Rating **    | M                      | Issue No.     | <b>60</b> |
| LM End          | <b>6.45</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Vegetation              |              | 38.391616 °            | 38.391616 °   |           |
|                 |                         |              | -121.538378 °          | -121.538378 ° |           |
| DWR ID          | DWR_RD0150_03_s_2012_60 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Landscaping     |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_60\_20150911\_00053.jpg



View of landscaping along the landward slope.

|                           |                         |              |                        |               |           |
|---------------------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start                  | <b>6.49</b>             | Rating **    | M                      | Issue No.     | <b>43</b> |
| LM End                    | <b>6.49</b>             | Issue Type + | Ob                     | Location *    | WS        |
| Category                  | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                           |                         |              | Start                  | End           |           |
| Item                      | Slope Stability         |              | 38.392172 °            | 38.392172 °   |           |
|                           |                         |              | -121.538065 °          | -121.538065 ° |           |
| DWR ID                    | DWR_RD0150_03_f_2012_43 |              |                        |               |           |
| Action/Comments           |                         |              |                        |               |           |
| Repair slope instability. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_43\_20150911\_00036.jpg



Slope instability was found on the waterside of the levee looking downstream.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>6.52</b>             | Rating **    | M                      | Issue No.     | <b>83</b> |
| LM End          | <b>6.52</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Encroachments           |              | 38.392580 °            | 38.392580 °   |           |
|                 |                         |              | -121.538059 °          | -121.538059 ° |           |
| DWR ID          | DWR_RD0150_03_f_2014_83 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Prunings        |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_83\_20150911\_00082.jpg



Prunings were found on the landside toe of the levee looking upstream.

|   |  |   |
|---|--|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>6.63</b>          | Rating **    | M  | Issue No.              | <b>961</b>    |
| LM End   | <b>6.63</b>          | Issue Type + | En | Location *             | LS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 38.394182 °            | 38.394182 °   |
|  |                      |              |    | -121.538609 °          | -121.538609 ° |
| DWR ID   |                      |              |    |                        |               |
| Action/Comments  |                      |              |    |                        |               |
| Inspector Comments: FS_ID:42692<br>DS_ID:22457<br>EP_NO: 14650<br>FS_HLM: 6.752<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: Appears abandoned and if so should be done so properly.<br>FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 5 feet below the crown. Concrete distribution box on landside levee toe. Diesel powered slant pump on water side. (Permit No. 14650 - Webber)<br>FS Date: 08/23/2013 |                      |              |    |                        |               |

Photo 1 of 3 : UCIP\_FA\_2015\_1690.jpg



WS view: air vent on steel pipe.

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>6.63</b> | Rating **    | M  | Issue No.  | <b>961 (cont)</b> |
| LM End   | <b>6.63</b> | Issue Type + | En | Location * | LS                |

Photo 2 of 3 : UCIP\_FA\_2015\_1691.jpg



WS view: diesel pump on steep 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 | 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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                      |              |    |                        |                   |
|--|----------------------|--------------|----|------------------------|-------------------|
| LM Start   | <b>6.63</b>          | Rating **    | M  | Issue No.              | <b>961 (cont)</b> |
| LM End   | <b>6.63</b>          | Issue Type + | En | Location *             | LS                |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |                   |
|  |                      |              |    | Start                  | End               |
| Item   | DWR UCIP Field Study |              |    | 38.394182 °            | 38.394182 °       |
|  |                      |              |    | -121.538609 °          | -121.538609 °     |
| DWR ID   |                      |              |    |                        |                   |
| Action/Comments  |                      |              |    |                        |                   |
| Inspector Comments: FS_ID:42692<br>DS_ID:22457<br>EP_NO: 14650<br>FS_HLM: 6.752<br>Repair Type: Non-Urgent<br>Crossing Status: Found |                      |              |    |                        |                   |

Photo 3 of 3 : UCIP\_FA\_2015\_1692.jpg



WS view: steel pipe (right) and diesel pump on levee slope.

|                 |                         |              |    |                        |               |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start        | <b>6.75</b>             | Rating **    | U  | Issue No.              | <b>30</b>     |
| LM End          | <b>6.83</b>             | Issue Type + | En | Location *             | LS            |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                 |                         |              |    | Start                  | End           |
| Item            | Vegetation              |              |    | 38.395670 °            | 38.396027 °   |
|                 |                         |              |    | -121.537925 °          | -121.536575 ° |
| DWR ID          | DWR_RD0150_03_s_2012_30 |              |    |                        |               |
| Action/Comments |                         |              |    |                        |               |
| Landscaping     |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_30\_20150911\_00022.jpg



Landscaping on landward slope blocking view from LM 6.87 to 6.95

|                 |                         |              |    |                        |             |
|-----------------|-------------------------|--------------|----|------------------------|-------------|
| LM Start        | <b>6.82</b>             | Rating **    | M  | Issue No.              | <b>13</b>   |
| LM End          | <b>6.93</b>             | Issue Type + | En | Location *             | LS          |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |             |
|                 |                         |              |    | Start                  | End         |
| Item            | Encroachments           |              |    | 38.395998 °            | 38.395470 ° |
|                 |                         |              |    | -121.536613 °          | °           |
| DWR ID          | DWR_RD0150_03_s_2012_13 |              |    |                        |             |
| Action/Comments |                         |              |    |                        |             |
| Fence           |                         |              |    |                        |             |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_13\_20150911\_00013.jpg



Fence was found on the landside of the levee looking downstream.

|   |  |   |
|---|--|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|   |                          |              |    |                        |               |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>6.85</b>              | Rating **    | U  | Issue No.              | <b>933</b>    |
| LM End  | <b>6.93</b>              | Issue Type + | En | Location *             | LS            |
| Category  | Earthen Levee            |              |    | GPS Latitude/Longitude |               |
|   |                          |              |    | Start                  | End           |
| Item  | Vegetation               |              |    | 38.396187 °            | 38.396989 °   |
|   |                          |              |    | -121.536180 °          | -121.535151 ° |
| DWR ID  | DWR_RD0150_03_s_2012_933 |              |    |                        |               |
| Action/Comments   |                          |              |    |                        |               |
| Landscaping<br>Inspector Comments: Landscaping has been maintained better, but some obstructions still exist. |                          |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_933\_20150911\_00101.jpg



View of the landscape on the landside shoulder of the levee looking downstream.

|                                |                         |              |    |                        |               |
|--------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start                       | <b>6.90</b>             | Rating **    | M  | Issue No.              | <b>61</b>     |
| LM End                         | <b>6.90</b>             | Issue Type + | Ma | Location *             | WS            |
| Category                       | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                                |                         |              |    | Start                  | End           |
| Item                           | Erosion / Bank Caving   |              |    | 38.396655 °            | 38.396655 °   |
|                                |                         |              |    | -121.535485 °          | -121.535485 ° |
| DWR ID                         | DWR_RD0150_03_s_2012_61 |              |    |                        |               |
| Action/Comments                |                         |              |    |                        |               |
| Note and monitor erosion site. |                         |              |    |                        |               |

Photo 1 of 2 : FA\_2015\_RD0150\_17\_61\_20150911\_00054.jpg



Updated picture of the erosion on the waterside of the levee during spring 2015 inspection.

|          |             |              |    |            |                  |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | <b>6.90</b> | Rating **    | M  | Issue No.  | <b>61 (cont)</b> |
| LM End   | <b>6.90</b> | Issue Type + | Ma | Location * | WS               |

Photo 2 of 2 : FA\_2015\_RD0150\_17\_61\_20150911\_00055.jpg



Erosion was found on the waterside slope of the levee looking downstream. This updated picture was taken during fall 2012 inspection.

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>7.21</b>          | Rating **    | U  | Issue No.              | <b>962</b>    |
| LM End   | <b>7.21</b>          | Issue Type + | En | Location *             | LS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 38.400883 °            | 38.400883 °   |
|  |                      |              |    | -121.536200 °          | -121.536200 ° |
| DWR ID   |                      |              |    |                        |               |
| Action/Comments  |                      |              |    |                        |               |
| Inspector Comments: FS_ID:42689<br>DS_ID:22463<br>EP_NO: N/A<br>FS_HLM: 7.339<br>Repair Type: Urgent<br>Crossing Status: Found<br>UCIP Comments: - Safety valve on pipe on waterside.- Power pole on waterside.- gully formation (erosion) on waterside levee slope<br>FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 7.7 feet below the crown, pump and gate valve on the waterward slope. Power pole on waterside. O&M Manual Sac 112, March 1957.<br>FS Date: 08/23/2013 |                      |              |    |                        |               |

Photo 1 of 3 : UCIP\_FA\_2015\_1989.jpg



WS view: electric GI conduit on levee slope.

Photo 2 of 3 : UCIP\_FA\_2015\_1990.jpg



LS view: overview of levee slope and levee toe. No pipe and structure found.

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                      |              |    |                        |                   |
|--|----------------------|--------------|----|------------------------|-------------------|
| LM Start   | <b>7.21</b>          | Rating **    | U  | Issue No.              | <b>962 (cont)</b> |
| LM End   | <b>7.21</b>          | Issue Type + | En | Location *             | LS                |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |                   |
|  |                      |              |    | Start                  | End               |
| Item   | DWR UCIP Field Study |              |    | 38.400883 °            | 38.400883 °       |
|  |                      |              |    | -121.536200 °          | -121.536200 °     |
| DWR ID   |                      |              |    |                        |                   |
| Action/Comments  |                      |              |    |                        |                   |
| Inspector Comments: FS_ID:42689<br>DS_ID:22463<br>EP_NO: N/A<br>FS_HLM: 7.339<br>Repair Type: Urgent<br>Crossing Status: Found |                      |              |    |                        |                   |

Photo 3 of 3 : UCIP\_FA\_2015\_1991.jpg



WS view: 8-inch pipe and pump on levee slope (right)

|                 |                         |              |    |                        |               |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start        | <b>7.26</b>             | Rating **    | U  | Issue No.              | <b>64</b>     |
| LM End          | <b>7.26</b>             | Issue Type + | En | Location *             | WS            |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                 |                         |              |    | Start                  | End           |
| Item            | Vegetation              |              |    | 38.401481 °            | 38.401481 °   |
|                 |                         |              |    | -121.536876 °          | -121.536876 ° |
| DWR ID          | DWR_RD0150_03_s_2012_64 |              |    |                        |               |
| Action/Comments |                         |              |    |                        |               |
| Landscaping     |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_64\_20150911\_00061.jpg



Landscaping on the waterside of the levee. The picture was taken from the crown looking upstream.

|                 |                         |              |    |                        |               |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start        | <b>7.29</b>             | Rating **    | U  | Issue No.              | <b>32</b>     |
| LM End          | <b>7.34</b>             | Issue Type + | En | Location *             | LS            |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                 |                         |              |    | Start                  | End           |
| Item            | Vegetation              |              |    | 38.401738 °            | 38.402296 °   |
|                 |                         |              |    | -121.537127 °          | -121.537678 ° |
| DWR ID          | DWR_RD0150_03_s_2012_32 |              |    |                        |               |
| Action/Comments |                         |              |    |                        |               |
| Landscaping     |                         |              |    |                        |               |

Photo 1 of 2 : FA\_2015\_RD0150\_17\_32\_20150911\_00024.jpg



Vegetation on the landside of the levee looking upstream. This picture was taken during spring 2012 inspection.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side<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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|                 |                         |              |    |                        |                  |
|-----------------|-------------------------|--------------|----|------------------------|------------------|
| LM Start        | <b>7.29</b>             | Rating **    | U  | Issue No.              | <b>32 (cont)</b> |
| LM End          | <b>7.34</b>             | Issue Type + | En | Location *             | LS               |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |                  |
|                 |                         |              |    | Start                  | End              |
| Item            | Vegetation              |              |    | 38.401738 °            | 38.402296 °      |
|                 |                         |              |    | -121.537127 °          | -121.537678 °    |
| DWR ID          | DWR_RD0150_03_s_2012_32 |              |    |                        |                  |
| Action/Comments |                         |              |    |                        |                  |
| Landscaping     |                         |              |    |                        |                  |

Photo 2 of 2 : FA\_2015\_RD0150\_17\_32\_20150911\_00025.jpg



Landscaping on landward slope blocking view from LM 7.42 to 7.47

|                 |                         |              |    |                        |               |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start        | <b>7.38</b>             | Rating **    | N  | Issue No.              | <b>63</b>     |
| LM End          | <b>7.38</b>             | Issue Type + | Ma | Location *             | LS            |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                 |                         |              |    | Start                  | End           |
| Item            | Trim / Thin Trees       |              |    | 38.402779 °            | 38.402779 °   |
|                 |                         |              |    | -121.538197 °          | -121.538197 ° |
| DWR ID          | DWR_RD0150_03_s_2012_63 |              |    |                        |               |
| Action/Comments |                         |              |    |                        |               |
| Tree stumps.    |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_63\_20150911\_00060.jpg



View of a tree stump on the landward slope.

|                 |                         |              |    |                        |               |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start        | <b>7.40</b>             | Rating **    | M  | Issue No.              | <b>84</b>     |
| LM End          | <b>7.40</b>             | Issue Type + | En | Location *             | LS            |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                 |                         |              |    | Start                  | End           |
| Item            | Vegetation              |              |    | 38.403047 °            | 38.403047 °   |
|                 |                         |              |    | -121.538433 °          | -121.538433 ° |
| DWR ID          | DWR_RD0150_03_s_2012_84 |              |    |                        |               |
| Action/Comments |                         |              |    |                        |               |
| Landscaping     |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_84\_20150911\_00083.jpg



Landscaping was found on the landside shoulder of the levee looking upstream.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|                 |                          |              |                        |               |            |
|-----------------|--------------------------|--------------|------------------------|---------------|------------|
| LM Start        | <b>7.44</b>              | Rating **    | U                      | Issue No.     | <b>934</b> |
| LM End          | <b>7.44</b>              | Issue Type + | En                     | Location *    | LS         |
| Category        | Earthen Levee            |              | GPS Latitude/Longitude |               |            |
|                 |                          |              | Start                  | End           |            |
| Item            | Vegetation               |              | 38.403566 °            | 38.403566 °   |            |
|                 |                          |              | -121.538886 °          | -121.538886 ° |            |
| DWR ID          | DWR_RD0150_03_s_2012_934 |              |                        |               |            |
| Action/Comments |                          |              |                        |               |            |
| Landscaping     |                          |              |                        |               |            |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_934\_20150911\_00102.jpg



Landscaping was blocking the visibility on the landside of the levee looking downstream.

|                 |                          |              |                        |               |            |
|-----------------|--------------------------|--------------|------------------------|---------------|------------|
| LM Start        | <b>7.47</b>              | Rating **    | M                      | Issue No.     | <b>935</b> |
| LM End          | <b>7.47</b>              | Issue Type + | Ma                     | Location *    | LS         |
| Category        | Earthen Levee            |              | GPS Latitude/Longitude |               |            |
|                 |                          |              | Start                  | End           |            |
| Item            | Encroachments            |              | 38.403795 °            | 38.403795 °   |            |
|                 |                          |              | -121.539205 °          | -121.539205 ° |            |
| DWR ID          | DWR_RD0150_03_s_2012_935 |              |                        |               |            |
| Action/Comments |                          |              |                        |               |            |
| Prunings        |                          |              |                        |               |            |

Photo 1 of 2 : FA\_2015\_RD0150\_17\_935\_20150911\_00104.jpg



Prunings were found on the landside of the levee looking upstream.

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>7.47</b> | Rating **    | M  | Issue No.  | <b>935 (cont)</b> |
| LM End   | <b>7.47</b> | Issue Type + | Ma | Location * | LS                |

Photo 2 of 2 : FA\_2015\_RD0150\_17\_935\_20150911\_00105.jpg



Prunings were found on the landside of the levee looking upstream. This picture was taken during fall 2011 inspection.

|   |  |   |
|---|--|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                          |              |                        |               |            |
|--|--------------------------|--------------|------------------------|---------------|------------|
| LM Start   | <b>7.74</b>              | Rating **    | M                      | Issue No.     | <b>396</b> |
| LM End   | <b>7.74</b>              | Issue Type + | Ma                     | Location *    | WS         |
| Category   | Earthen Levee            |              | GPS Latitude/Longitude |               |            |
|  |                          |              | Start                  | End           |            |
| Item   | Slope Stability          |              | 38.406098 °            | 38.406098 °   |            |
|  |                          |              | -121.543028 °          | -121.543028 ° |            |
| DWR ID   | DWR_RD0150_03_s_2015_396 |              |                        |               |            |
| Action/Comments  |                          |              |                        |               |            |
| Repair slope instability.<br>Inspector Comments: Slope instability caused by a tree. |                          |              |                        |               |            |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_396\_20150911\_00098.jpg



Slope instability was found on the waterside toe of the levee looking upstream.

|   |                         |              |                        |               |           |
|---|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start  | <b>7.91</b>             | Rating **    | M                      | Issue No.     | <b>87</b> |
| LM End  | <b>7.91</b>             | Issue Type + | En                     | Location *    | WS        |
| Category  | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|   |                         |              | Start                  | End           |           |
| Item  | Encroachments           |              | 38.408342 °            | 38.408342 °   |           |
|   |                         |              | -121.541580 °          | -121.541580 ° |           |
| DWR ID  | DWR_RD0150_03_s_2012_87 |              |                        |               |           |
| Action/Comments   |                         |              |                        |               |           |
| Material<br>Inspector Comments: A concrete or anchor block was found on the slope of the levee. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_87\_20150911\_00084.jpg



A concrete block was found on the waterside of the levee looking upstream.

|                           |                         |              |                        |               |           |
|---------------------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start                  | <b>8.02</b>             | Rating **    | M                      | Issue No.     | <b>92</b> |
| LM End                    | <b>8.02</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category                  | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                           |                         |              | Start                  | End           |           |
| Item                      | Slope Stability         |              | 38.409130 °            | 38.409130 °   |           |
|                           |                         |              | -121.539971 °          | -121.539971 ° |           |
| DWR ID                    | DWR_RD0150_03_s_2014_92 |              |                        |               |           |
| Action/Comments           |                         |              |                        |               |           |
| Repair slope instability. |                         |              |                        |               |           |

Photo 1 of 2 : FA\_2015\_RD0150\_17\_92\_20150911\_00089.jpg



Updated picture of the slope instability on the waterside of the levee looking upstream during spring 2015 inspection.

|  |  |  |   |
|--|--|--|---|
| <b>* Location</b><br>LS : Land Side<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <b>N : Not Inspected/Rated</b><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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|                           |                         |              |                        |               |                  |
|---------------------------|-------------------------|--------------|------------------------|---------------|------------------|
| LM Start                  | <b>8.02</b>             | Rating **    | M                      | Issue No.     | <b>92 (cont)</b> |
| LM End                    | <b>8.02</b>             | Issue Type + | Ma                     | Location *    | WS               |
| Category                  | Earthen Levee           |              | GPS Latitude/Longitude |               |                  |
|                           |                         |              | Start                  | End           |                  |
| Item                      | Slope Stability         |              | 38.409130 °            | 38.409130 °   |                  |
|                           |                         |              | -121.539971 °          | -121.539971 ° |                  |
| DWR ID                    | DWR_RD0150_03_s_2014_92 |              |                        |               |                  |
| Action/Comments           |                         |              |                        |               |                  |
| Repair slope instability. |                         |              |                        |               |                  |

Photo 2 of 2 : FA\_2015\_RD0150\_17\_92\_20150911\_00090.jpg



A slope instability was found on the waterside of the levee looking downstream.

|  |                         |              |                        |               |           |
|--|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start                                     | <b>8.02</b>             | Rating **    | M                      | Issue No.     | <b>53</b> |
| LM End                                       | <b>8.02</b>             | Issue Type + | En                     | Location *    | WS        |
| Category                                     | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|  |                         |              | Start                  | End           |           |
| Item   | Encroachments           |              | 38.409145 °            | 38.409145 °   |           |
|  |                         |              | -121.539831 °          | -121.539831 ° |           |
| DWR ID                                       | DWR_RD0150_03_f_2015_53 |              |                        |               |           |
| Action/Comments                              |                         |              |                        |               |           |
| Pipe<br>Inspector Comments: An abandon pipe. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_53\_20151119\_00127.jpg



View of a pipe on the waterside of the levee.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>8.05</b>             | Rating **    | M                      | Issue No.     | <b>82</b> |
| LM End          | <b>8.05</b>             | Issue Type + | En                     | Location *    | LS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Encroachments           |              | 38.409224 °            | 38.409224 °   |           |
|                 |                         |              | -121.539350 °          | -121.539350 ° |           |
| DWR ID          | DWR_RD0150_03_f_2013_82 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Prunings        |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_82\_20150911\_00081.jpg



Prunings were found on the landside toe of the levee looking upstream.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>8.20</b>          | Rating **    | U  | Issue No.              | <b>963</b>    |
| LM End   | <b>8.20</b>          | Issue Type + | En | Location *             | LS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 38.408619 °            | 38.408619 °   |
|  |                      |              |    | -121.536768 °          | -121.536768 ° |
| DWR ID   |                      |              |    |                        |               |
| Action/Comments  |                      |              |    |                        |               |
| Inspector Comments: FS_ID:42688<br>DS_ID:22466<br>EP_NO: N/A<br>FS_HLM: 8.349<br>Repair Type: Urgent<br>Crossing Status: Found<br>UCIP Comments: - needs proper abandonment- pile structure in stream- may need proper abandonment<br>FIELD_STRUCT_DESC: 10-inch abandoned steel pipe through the levee, 13.8 feet below the crown. Gate valve on the waterward end. Service pole with guy wire on the landward slope. (A. Colby) O&M Manual SAC 112, March 1957.<br>FS Date: 08/23/2013 |                      |              |    |                        |               |

Photo 1 of 3 : UCIP\_FA\_2015\_1992.jpg



LS view: no pipe and structure found on landside.

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>8.20</b> | Rating **    | U  | Issue No.  | <b>963 (cont)</b> |
| LM End   | <b>8.20</b> | Issue Type + | En | Location * | LS                |

Photo 2 of 3 : UCIP\_FA\_2015\_1993.jpg



WS view: abandoned gate valve found on 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 | 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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                      |              |    |                        |                   |
|--|----------------------|--------------|----|------------------------|-------------------|
| LM Start   | <b>8.20</b>          | Rating **    | U  | Issue No.              | <b>963 (cont)</b> |
| LM End   | <b>8.20</b>          | Issue Type + | En | Location *             | LS                |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |                   |
|  |                      |              |    | Start                  | End               |
| Item   | DWR UCIP Field Study |              |    | 38.408619 °            | 38.408619 °       |
|  |                      |              |    | -121.536768 °          | -121.536768 °     |
| DWR ID   |                      |              |    |                        |                   |
| Action/Comments  |                      |              |    |                        |                   |
| Inspector Comments: FS_ID:42688<br>DS_ID:22466<br>EP_NO: N/A<br>FS_HLM: 8.349<br>Repair Type: Urgent<br>Crossing Status: Found |                      |              |    |                        |                   |

Photo 3 of 3 : UCIP\_FA\_2015\_1994.jpg



WS view: pipe visible on levee slope and in the stream.

|                                |                         |              |    |                        |               |
|--------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start                       | <b>8.26</b>             | Rating **    | M  | Issue No.              | <b>65</b>     |
| LM End                         | <b>8.26</b>             | Issue Type + | Ma | Location *             | WS            |
| Category                       | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                                |                         |              |    | Start                  | End           |
| Item                           | Erosion / Bank Caving   |              |    | 38.408213 °            | 38.408213 °   |
|                                |                         |              |    | -121.535911 °          | -121.535911 ° |
| DWR ID                         | DWR_RD0150_03_f_2015_65 |              |    |                        |               |
| Action/Comments                |                         |              |    |                        |               |
| Note and monitor erosion site. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_65\_20151119\_00128.jpg



View of erosion on the waterside of the levee.

|                                |                         |              |    |                        |               |
|--------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start                       | <b>8.31</b>             | Rating **    | M  | Issue No.              | <b>66</b>     |
| LM End                         | <b>8.31</b>             | Issue Type + | Ma | Location *             | WS            |
| Category                       | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                                |                         |              |    | Start                  | End           |
| Item                           | Erosion / Bank Caving   |              |    | 38.407960 °            | 38.407960 °   |
|                                |                         |              |    | -121.534898 °          | -121.534898 ° |
| DWR ID                         | DWR_RD0150_03_s_2012_66 |              |    |                        |               |
| Action/Comments                |                         |              |    |                        |               |
| Note and monitor erosion site. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_66\_20150911\_00062.jpg



Updated picture of the erosion on the waterside of the levee.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|                                |                         |              |                        |               |           |
|--------------------------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start                       | <b>8.33</b>             | Rating **    | U                      | Issue No.     | <b>67</b> |
| LM End                         | <b>8.33</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category                       | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                                |                         |              | Start                  | End           |           |
| Item                           | Erosion / Bank Caving   |              | 38.407958 °            | 38.407958 °   |           |
|                                |                         |              | -121.534583 °          | -121.534583 ° |           |
| DWR ID                         | DWR_RD0150_03_s_2012_67 |              |                        |               |           |
| Action/Comments                |                         |              |                        |               |           |
| Note and monitor erosion site. |                         |              |                        |               |           |

Photo 1 of 2 : FA\_2015\_RD0150\_17\_67\_20150911\_00064.jpg



Updated picture of the erosion on the waterside shoulder looking upstream during spring 2014 inspection.

|          |             |              |    |            |                  |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | <b>8.33</b> | Rating **    | U  | Issue No.  | <b>67 (cont)</b> |
| LM End   | <b>8.33</b> | Issue Type + | Ma | Location * | WS               |

Photo 2 of 2 : FA\_2015\_RD0150\_17\_67\_20150911\_00065.jpg



Erosion was found on the waterside shoulder of the levee looking upstream. This picture was taken during fall 2012 inspection.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>8.37</b>             | Rating **    | M                      | Issue No.     | <b>88</b> |
| LM End          | <b>8.37</b>             | Issue Type + | En                     | Location *    | WS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Encroachments           |              | 38.408155 °            | 38.408155 °   |           |
|                 |                         |              | -121.533982 °          | -121.533982 ° |           |
| DWR ID          | DWR_RD0150_03_s_2012_88 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Pole            |                         |              |                        |               |           |

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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>8.37</b>             | Rating **    | U  | Issue No.              | <b>89</b>     |
| LM End   | <b>8.37</b>             | Issue Type + | Ma | Location *             | WS            |
| Category   | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item   | Animal Control          |              |    | 38.408153 °            | 38.408153 °   |
|  |                         |              |    | -121.533980 °          | -121.533980 ° |
| DWR ID   | DWR_RD0150_03_s_2012_89 |              |    |                        |               |
| Action/Comments  |                         |              |    |                        |               |
| Exterminate rodents and backfill and compact or grout burrows. |                         |              |    |                        |               |

Photo 1 of 2 : FA\_2015\_RD0150\_17\_89\_20150911\_00085.jpg



Updated picture of a rodent hole on the waterside shoulder of the levee during spring 2015 inspection.

|          |             |              |    |            |                  |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | <b>8.37</b> | Rating **    | U  | Issue No.  | <b>89 (cont)</b> |
| LM End   | <b>8.37</b> | Issue Type + | Ma | Location * | WS               |

Photo 2 of 2 : FA\_2015\_RD0150\_17\_89\_20150911\_00086.jpg



Updated picture of a rodent hole on the waterside shoulder of the levee during fall 2014 inspection.

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | <b>8.37</b>          | Rating **    | M  | Issue No.              | <b>964</b>    |
| LM End   | <b>8.37</b>          | Issue Type + | En | Location *             | WS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 38.408188 °            | 38.408188 °   |
|  |                      |              |    | -121.533935 °          | -121.533935 ° |
| DWR ID   |                      |              |    |                        |               |
| Action/Comments  |                      |              |    |                        |               |
| Inspector Comments: FS_ID:41648<br>DS_ID:22467<br>EP_NO: N/A<br>FS_HLM: 8.522<br>Repair Type: Non-Urgent<br>Crossing Status: Found |                      |              |    |                        |               |

Photo 1 of 3 : UCIP\_FA\_2015\_1995.jpg



WS view: 8-inch steel pipe (right) next to 12" pipe (left). This 8" pipe might have merged with 12" pipe under the levee .

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side<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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

| LM Start   | 8.37                 | Rating **    | M  | Issue No.              | 964 (cont)    |
|--|----------------------|--------------|----|------------------------|---------------|
| LM End   | 8.37                 | Issue Type + | En | Location *             | WS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 38.408188 °            | 38.408188 °   |
|  |                      |              |    | -121.533935 °          | -121.533935 ° |
| DWR ID   |                      |              |    |                        |               |
| Action/Comments  |                      |              |    |                        |               |
| Inspector Comments: FS_ID:41648<br>DS_ID:22467<br>EP_NO: N/A<br>FS_HLM: 8.522<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: - walkway in poor functional condition- an abandoned 8-inch steel pipe next to 12" pipe. This 8" pipe might have merged with 12" pipe under the levee .- Pipe and pump inside concrete masonry wall.<br>FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 13.0 feet below the crown, pump and gate valve in pump house on the waterward slope. Concrete distribution box at the landward toe. Service pole on the waterward shoulder. O&M Manual SAC 112, March 1957.<br>FS Date: 08/23/2013 |                      |              |    |                        |               |

Photo 2 of 3 : UCIP\_FA\_2015\_1996.jpg



WS view: pump, gate valve, and airvent on pipe inside concrete masonry box.

| LM Start | 8.37 | Rating **    | M  | Issue No.  | 964 (cont) |
|----------|------|--------------|----|------------|------------|
| LM End   | 8.37 | Issue Type + | En | Location * | WS         |

Photo 3 of 3 : UCIP\_FA\_2015\_1997.jpg



WS view: walkway and inlet pipe on levee slope.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | <b>8.38</b>             | Rating **    | M  | Issue No.              | <b>69</b>     |
| LM End  | <b>8.47</b>             | Issue Type + | En | Location *             | LS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Encroachments           |              |    | 38.408238 °            | 38.409291 °   |
|   |                         |              |    | -121.533866 °          | -121.532702 ° |
| DWR ID  | DWR_RD0150_03_s_2012_69 |              |    |                        |               |
| Action/Comments   |                         |              |    |                        |               |
| Ditch<br>Inspector Comments: Irrigation ditch in landside toe |                         |              |    |                        |               |

No Photos

|                 |                         |              |    |                        |               |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start        | <b>8.46</b>             | Rating **    | N  | Issue No.              | <b>90</b>     |
| LM End          | <b>8.46</b>             | Issue Type + | Ma | Location *             | LS            |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                 |                         |              |    | Start                  | End           |
| Item            | Trim / Thin Trees       |              |    | 38.409220 °            | 38.409220 °   |
|                 |                         |              |    | -121.532801 °          | -121.532801 ° |
| DWR ID          | DWR_RD0150_03_s_2012_90 |              |    |                        |               |
| Action/Comments |                         |              |    |                        |               |
| Tree stumps.    |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_90\_20150911\_00088.jpg



A tree stump was found on the landside of the levee looking upstream.

|                 |                         |              |    |                        |               |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start        | <b>8.50</b>             | Rating **    | N  | Issue No.              | <b>55</b>     |
| LM End          | <b>8.50</b>             | Issue Type + | Ma | Location *             | WS            |
| Category        | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                 |                         |              |    | Start                  | End           |
| Item            | Trim / Thin Trees       |              |    | 38.409559 °            | 38.409559 °   |
|                 |                         |              |    | -121.532356 °          | -121.532356 ° |
| DWR ID          | DWR_RD0150_03_s_2012_55 |              |    |                        |               |
| Action/Comments |                         |              |    |                        |               |
| Tree stumps.    |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_55\_20150911\_00048.jpg



A tree stump was found on the waterside of the levee looking upstream.

|  |  |   |   |
|--|--|---|---|
| <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 - Fall 2015**

**Reclamation District No. 0150 Merrit Island**

| Waterway               | Bank | Unit Miles | Inspection Start/End     | Inspector  |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41       | 11/17/2015<br>11/17/2015 | Pavel Kazi |

|                 |                        |              |                        |               |          |
|-----------------|------------------------|--------------|------------------------|---------------|----------|
| LM Start        | <b>8.72</b>            | Rating **    | M                      | Issue No.     | <b>7</b> |
| LM End          | <b>8.72</b>            | Issue Type + | Ma                     | Location *    | WS       |
| Category        | Earthen Levee          |              | GPS Latitude/Longitude |               |          |
|                 |                        |              | Start                  | End           |          |
| Item            | Encroachments          |              | 38.411593 °            | 38.411593 °   |          |
|                 |                        |              | -121.529143 °          | -121.529143 ° |          |
| DWR ID          | DWR_RD0150_03_s_2012_7 |              |                        |               |          |
| Action/Comments |                        |              |                        |               |          |
| Debris          |                        |              |                        |               |          |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_7\_20150911\_00006.jpg



Broken concrete pipe was left on the waterside slope of the levee. The picture was taken from the crown looking upstream.

|                 |                         |              |                        |               |           |
|-----------------|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start        | <b>9.21</b>             | Rating **    | N                      | Issue No.     | <b>59</b> |
| LM End          | <b>9.21</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category        | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|                 |                         |              | Start                  | End           |           |
| Item            | Trim / Thin Trees       |              | 38.413268 °            | 38.413268 °   |           |
|                 |                         |              | -121.525929 °          | -121.525929 ° |           |
| DWR ID          | DWR_RD0150_03_s_2012_59 |              |                        |               |           |
| Action/Comments |                         |              |                        |               |           |
| Tree stumps.    |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_59\_20150911\_00052.jpg



A tree stump was found on the waterside of the levee looking upstream.

|  |                         |              |                        |               |           |
|--|-------------------------|--------------|------------------------|---------------|-----------|
| LM Start   | <b>9.35</b>             | Rating **    | U                      | Issue No.     | <b>73</b> |
| LM End   | <b>9.35</b>             | Issue Type + | Ma                     | Location *    | WS        |
| Category   | Earthen Levee           |              | GPS Latitude/Longitude |               |           |
|  |                         |              | Start                  | End           |           |
| Item   | Trim / Thin Trees       |              | 38.413169 °            | 38.413169 °   |           |
|  |                         |              | -121.523707 °          | -121.523707 ° |           |
| DWR ID   | DWR_RD0150_03_s_2012_73 |              |                        |               |           |
| Action/Comments  |                         |              |                        |               |           |
| Trim and thin trees to allow visibility of the ground and room to flood fight. |                         |              |                        |               |           |

Photo 1 of 1 : FA\_2015\_RD0150\_17\_73\_20150911\_00068.jpg



Thin/trim trees to allow for visibility of top 20' of waterward slope.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side<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 |
|--|--|---|---|

