

**Flood Control Project Maintenance
Levee Inspections**

Fall 2010 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

| RD0001 Reclamation District No. 0001 Union Island | Overall LMA Rating | Total LMA Miles | | | | |
|---|-----------------------|--------------------|--------------|-------------|---------------|----------|
| | U | 1.15 | | | | |
| Rated Item | M Miles | U Miles | M + 4U Miles | Threshold % | Encroachments | |
| | | | | | PO Miles | CO Miles |
| <i>Earthen Levee</i> | | | | | | |
| Vegetation | 0.38 | | 0.38 | 33.04% | | |
| Encroachments | 0.01 | | 0.01 | 0.87% | | |
| Animal Control | 0.01 | | 0.01 | 0.87% | | |
| Erosion / Bank Caving | 0.02 | 0.01 | 0.06 | 5.22% | | |
| <i>LMA Totals:</i> | 0.42 | 0.01 | 0.46 | 40.00% | 0.00 | 0.00 |

**Flood Control Project Maintenance
Levee Inspections
LMA District Cover Sheet
Fall 2010 Levee Inspection Results**

Reclamation District No. 0001 Union Island

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

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

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

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2010 Levee Inspection Results

Reclamation District No. 0001 Union Island

| Waterway | Bank | Unit Miles |
|-----------------------|-------|------------|
| Unit No. 01 Old River | Right | 1.15 |

| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
|--|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit Maintenance Rating (Fall Only) | | | U | |
| Date of Inspection | 3/15/2010 | | 9/23/2010 | |
| DWR Inspector | John Paasch | | John Paasch | |
| Accompanied By | Chip Salmon | | | |

Check one:

During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.

During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

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X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0001 Union Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Old River | Right | 1.15 | 10/05/2010 10/05/2010 | John Paasch |

| LMR No. | Levee Mile | | Category | Item | * Location | ** Rating | Action/Comment | GPS Latitude/Longitude | | Issue No. Photo |
|---------|------------|------|---------------|-----------------------|------------|-----------|---|------------------------------|------------------------------|--------------------|
| | Start | End | | | | | | Start | End | |
| 1 | 0.01 | 0.01 | Earthen Levee | Encroachments | WS | W | Pipe Inspector Comments: Steel irrigation intake pipe up levee slope and through freeboard. | 37.822408 ° -121.375714 ° | 37.822408 ° -121.375714 ° | 1 |
| 2 | 0.02 | 0.13 | Earthen Levee | Vegetation | WS | M | Control annual grass and weeds on the levee slopes and easements. | 37.822405 ° -121.375763 ° | 37.821885 ° -121.377598 ° | 17 Y |
| 3 | 0.02 | 0.13 | Earthen Levee | Vegetation | LS | M | Control annual grass and weeds on the levee slopes and easements. | 37.822404 ° -121.375766 ° | 37.821817 ° -121.377778 ° | 18 Y |
| 4 | 0.11 | 0.11 | Earthen Levee | Erosion / Bank Caving | LS | U | Schedule repair of erosion site prior to the next inspection. Inspector Comments: Landside slope is eroded creating two large holes at the hinge point. | 37.822051 ° -121.377320 ° | 37.822051 ° -121.377320 ° | 2 Y |
| 5 | 0.14 | 0.14 | Earthen Levee | Animal Control | LS | C | No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows. Inspector Comments: Bait stations said to be in place by end of March. Isolated rodent hole observed at this and other locations along the levee. | 37.821743 ° -121.377861 ° | 37.821743 ° -121.377861 ° | 3 |
| 6 | 0.24 | 0.24 | Earthen Levee | Encroachments | WS | A | Equipment Inspector Comments: Equipment Removed | 37.820280 ° -121.378307 ° | 37.820280 ° -121.378307 ° | 4 |
| 7 | 0.26 | 0.26 | Earthen Levee | Erosion / Bank Caving | WS | M | Note and monitor erosion site. | 37.820234 ° -121.378586 ° | 37.820234 ° -121.378586 ° | 5 |
| 8 | 0.28 | 0.35 | Earthen Levee | Vegetation | LS | M | Control annual grass and weeds on the levee slopes and easements. | 37.820266 ° -121.379010 ° | 37.820161 ° -121.380145 ° | 19 Y |
| 9 | 0.32 | 0.32 | Earthen Levee | Encroachments | WS | A | Equipment Inspector Comments: Equipment has been removed. | 37.820260 ° -121.379714 ° | 37.820260 ° -121.379714 ° | 6 |
| 10 | 0.35 | 0.35 | Earthen Levee | Animal Control | LS | W | No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows. | 37.820187 ° -121.380150 ° | 37.820187 ° -121.380150 ° | 12 |
| 11 | 0.39 | 0.39 | Earthen Levee | Encroachments | WS | W | Pipe Inspector Comments: Irrigation intake through levee crown. | 37.819651 ° -121.380467 ° | 37.819651 ° -121.380467 ° | 7 Y |
| 12 | 0.43 | 0.43 | Earthen Levee | Animal Control | WS | C | Exterminate rodents and backfill and compact or grout burrows. | 37.818863 ° -121.380260 ° | 37.818863 ° -121.380260 ° | 8 |
| 13 | 0.54 | 0.54 | Earthen Levee | Erosion / Bank Caving | LS | M | Schedule repair of erosion site prior to the next inspection. Inspector Comments: Crown width 50'. | 37.817515 ° -121.379943 ° | 37.817515 ° -121.379943 ° | 9 Y |
| 14 | 0.66 | 0.66 | Earthen Levee | Animal Control | LS | M | No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows. | 37.817249 ° -121.382026 ° | 37.817249 ° -121.382026 ° | 15 Y |
| 15 | 0.67 | 0.67 | Earthen Levee | Encroachments | LS | W | Pipe Inspector Comments: photo Drainage discharge into Old River. | 37.817134 ° -121.382099 ° | 37.817134 ° -121.382099 ° | 20 |
| 16 | 0.68 | 0.68 | Earthen Levee | Encroachments | LS | M | Prunings Inspector Comments: Thistle piled at levee toe should be removed. | 37.817058 ° -121.382316 ° | 37.817058 ° -121.382316 ° | 14 Y |

| | |
|--|--|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated C : Corrected W : Watch/Monitor |
|--|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2010

Reclamation District No. 0001 Union Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Old River | Right | 1.15 | 10/05/2010 10/05/2010 | John Paasch |

| LMR No. | Levee Mile | | Category | Item | * Location | ** Rating | Action/Comment | GPS Latitude/Longitude | | Issue No. Photo |
|---------|------------|------|---------------|---------------|------------|-----------|--|------------------------------|------------------------------|--------------------|
| | Start | End | | | | | | Start | End | |
| 17 | 0.86 | 0.86 | Earthen Levee | Encroachments | LS | W | Pipe Inspector Comments: Irrigation intake through levee freeboard. | 37.814566 ° -121.382450 ° | 37.814566 ° -121.382450 ° | 10 |
| 18 | 0.91 | 0.91 | Earthen Levee | Vegetation | LS | M | Elderberries are blocking visibility and flood fight capability. | 37.814220 ° -121.383336 ° | 37.814220 ° -121.383336 ° | 11 |
| 19 | 1.05 | 1.13 | Earthen Levee | Vegetation | LS | M | Control annual grass and weeds on the levee slopes and easements. | 37.812469 ° -121.383755 ° | 37.811824 ° -121.384578 ° | 21 Y |

| | |
|---|--|
| <p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p> | <p>** Rating</p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p> <p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated</p> <p>C : Corrected W : Watch/Monitor</p> |
|---|--|

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|-----------------------|-------|------------|--------------------------|-------------|
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| | |
|--|---------------|
| Levee Mile Report Line | 2 |
| Start Levee Mile | 0.02 |
| End Levee Mile | 0.13 |
| Location | Water Side |
| Category | Earthen Levee |
| Item | Vegetation |
| Vegetation on the top 20' of waterside slope obstructs visibility. | |
| jpaasch_f_20101013_486.jpg | |



| | |
|--|---------------|
| Levee Mile Report Line | 3 |
| Start Levee Mile | 0.02 |
| End Levee Mile | 0.13 |
| Location | Land Side |
| Category | Earthen Levee |
| Item | Vegetation |
| Vegetation on the landside slope obstructs visibility. | |
| jpaasch_f_20101013_484.jpg | |



| | |
|--|-----------------------|
| Levee Mile Report Line | 4 |
| Start Levee Mile | 0.11 |
| End Levee Mile | 0.11 |
| Location | Land Side |
| Category | Earthen Levee |
| Item | Erosion / Bank Caving |
| Two large erosion locations present on landside levee slope. | |
| jpaasch_f_20101013_479.jpg | |



| | | | |
|---|---|---|--|
| <p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p> | <p>** Rating</p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p> | <p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated</p> | <p>C : Corrected W : Watch/Monitor</p> |
|---|---|---|--|

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| | |
|--|---------------|
| Levee Mile Report Line | 8 |
| Start Levee Mile | 0.28 |
| End Levee Mile | 0.35 |
| Location | Land Side |
| Category | Earthen Levee |
| Item | Vegetation |
| Vegetation on the landside slope obstructs visibility. | |
| jpaasch_f_20101013_485.jpg | |



| | |
|--|---------------|
| Levee Mile Report Line | 11 |
| Start Levee Mile | 0.39 |
| End Levee Mile | 0.39 |
| Location | Water Side |
| Category | Earthen Levee |
| Item | Encroachments |
| Drainage discharge pipe through levee freeboard. | |
| jpaasch_f_20101013_482.jpg | |



| | |
|---|-----------------------|
| Levee Mile Report Line | 13 |
| Start Levee Mile | 0.54 |
| End Levee Mile | 0.54 |
| Location | Land Side |
| Category | Earthen Levee |
| Item | Erosion / Bank Caving |
| Erosion of landside slope at several spots due to surface runoff. | |
| jpaasch_f_20101013_480.jpg | |



| | | | |
|--|--|--|------------------------------------|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated | C : Corrected W : Watch/Monitor |
|--|--|--|------------------------------------|

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| Unit No. 01 Old River | Right | 1.15 | 10/05/2010 10/05/2010 | John Paasch |

| | |
|-------------------------------------|----------------|
| Levee Mile Report Line | 14 |
| Start Levee Mile | 0.66 |
| End Levee Mile | 0.66 |
| Location | Land Side |
| Category | Earthen Levee |
| Item | Animal Control |
| Active rodent holes on levee slope. | |
| jpaasch_f_20101013_481.jpg | |



| | |
|--------------------------------------|---------------|
| Levee Mile Report Line | 16 |
| Start Levee Mile | 0.68 |
| End Levee Mile | 0.68 |
| Location | Land Side |
| Category | Earthen Levee |
| Item | Encroachments |
| Photo of thistle piled at levee toe. | |
| jpaasch_f_20101013_483.jpg | |



| | |
|--|---------------|
| Levee Mile Report Line | 19 |
| Start Levee Mile | 1.05 |
| End Levee Mile | 1.13 |
| Location | Land Side |
| Category | Earthen Levee |
| Item | Vegetation |
| Vegetation on landside slope obstructs access. | |
| jpaasch_f_20101013_478.jpg | |



| | | | |
|---|---|---|--|
| <p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p> | <p>** Rating</p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p> | <p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated</p> | <p>C : Corrected W : Watch/Monitor</p> |
|---|---|---|--|