

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|-------------------------------|--------------|----|------------------------|-----------|
| LM Start | 0.00 | Rating ** | M | Issue No. | 66 |
| LM End | 0.00 | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Flood Preparedness & Training | | | | |
| DWR ID | DWR_RD0544_01_s_2012_66 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| The LMA has a good working knowledge of flood response. LMA but has not been involved in flood training for several years. | | | | | |

No Photos

| | | | | | |
|---|----------------------------------|--------------|----|------------------------|-----------|
| LM Start | 0.00 | Rating ** | A | Issue No. | 71 |
| LM End | 0.00 | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Operations & Maintenance Manuals | | | | |
| DWR ID | DWR_RD0544_01_s_2013_71 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| The LMA has a copy of O&M manual on file in the office. | | | | | |

No Photos

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

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|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|--------------------------------|--------------|------------------------|------------|-----------|
| LM Start | 0.00 | Rating ** | A | Issue No. | 72 |
| LM End | 0.00 | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Emergency Supplies & Equipment | | | ° | ° |
| | | | ° | | ° |
| DWR ID | DWR_RD0544_01_s_2013_72 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| The LMA maintains an adequate supply of floodfight material. | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|------------------------|------------|-------------|
| LM Start | 0.00 | Rating ** | M | Issue No. | 52 |
| LM End | 6.05 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Vegetation | | 37.870422 | ° | 37.808701 |
| | | | -121.329858 | ° | -121.328317 |
| DWR ID | DWR_RD0544_01_s_2018_52 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|------------------------|------------|-------------|
| LM Start | 0.00 | Rating ** | M | Issue No. | 53 |
| LM End | 6.05 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Vegetation | | 37.870422 | ° | 37.808701 |
| | | | -121.329857 | ° | -121.328317 |
| DWR ID | DWR_RD0544_01_s_2018_53 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

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| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.01 | Rating ** | M | Issue No. | 92 |
| LM End | 0.01 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.870285 ° | 37.870285 ° |
| | | | | -121.329822 ° | -121.329822 ° |
| DWR ID | DWR_RD0544_01_f_2014_92 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| Untrimmed tree on landside slope. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_92_20180323_00068.jpg



Looking southwest at untrimmed tree on landward slope.

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.06 | Rating ** | U | Issue No. | 118 |
| LM End | 0.06 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.869570 ° | 37.869570 ° |
| | | | | -121.329556 ° | -121.329556 ° |
| DWR ID | DWR_RD0544_01_f_2015_118 | | | | |
| Comment Code | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | |
| Inspector Comment | | | | | |
| Finger erosion noted on landside slope. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_118_20180323_00088.jpg



Looking west at landside erosion for shoulder to middle of levee slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.26 | Rating ** | M | Issue No. | 101 |
| LM End | 0.34 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.867148 ° | 37.866036 ° |
| | | | | -121.327797 ° | -121.327862 ° |
| DWR ID | DWR_RD0544_01_s_2016_101 | | | | |
| Comment Code | | | | | |
| C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.42 | Rating ** | A/W | Issue No. | 2 |
| LM End | 0.42 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.864958 ° | 37.864958 ° |
| | | | | -121.327142 ° | -121.327142 ° |
| DWR ID | DWR_RD0544_01_s_2012_2 | | | | |
| Comment Code | | | | | |
| T2 : Thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| Large untrimmed tree on landside slope. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_2_20180323_00002.jpg



Looking southwest at untrimmed tree on landward slope.

| | | | | | |
|--|------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.45 | Rating ** | C | Issue No. | 6 |
| LM End | 0.45 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.864713 ° | 37.864713 ° |
| | | | | -121.326708 ° | -121.326708 ° |
| DWR ID | DWR_RD0544_01_f_2013_6 | | | | |
| Comment Code | | | | | |
| PR : Prunings | | | | | |
| Inspector Comment | | | | | |
| Broken tree limbs on waterside slope and berm. | | | | | |

No Photos

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

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| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.48 | Rating ** | U | Issue No. | 3 |
| LM End | 0.67 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.864578 ° | 37.863753 ° |
| | | | | -121.326210 ° | -121.322835 ° |
| DWR ID | DWR_RD0544_01_s_2012_3 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| Dense vegetation on waterside and landside slopes. | | | | | |

Photo 1 of 2 : SP_2018_RD0544_108_3_20180323_00003.jpg



Looking southeast at the waterside slope.

| | | | | | |
|----------|-------------|--------------|----|------------|-----------------|
| LM Start | 0.48 | Rating ** | U | Issue No. | 3 (cont) |
| LM End | 0.67 | Issue Type + | Ma | Location * | WS |

Photo 2 of 2 : SP_2018_RD0544_108_3_20180323_00004.jpg



Looking south at dense veg on waterward slope.

| | | | | | |
|---|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.55 | Rating ** | M | Issue No. | 61 |
| LM End | 0.63 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.864359 ° | 37.864011 ° |
| | | | | -121.324939 ° | -121.323562 ° |
| DWR ID | DWR_RD0544_01_f_2013_61 | | | | |
| Comment Code | | | | | |
| C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | | | |
|--|--|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
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|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|---------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.64 | Rating ** | A/W | Issue No. | 75 |
| LM End | 0.64 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.863900 ° | 37.863900 ° |
| | | | | -121.323500 ° | -121.323400 ° |
| DWR ID | DWR_RD0544_01_f _ 2017_75 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:571 | | | | | |
| Site Designation:LMA-477 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/10/2017 | | | | | |
| Notes: | | | | | |

Photo 1 of 3 : LEVAL_SP_2018_571_4478.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 0.64 | Rating ** | A/W | Issue No. | 75 (cont) |
| LM End | 0.64 | Issue Type + | Ma | Location * | |

Photo 2 of 3 : LEVAL_SP_2018_571_4480.jpg



| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
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| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|-------------------------|--------------|-----|------------------------|------------------|
| LM Start | 0.64 | Rating ** | A/W | Issue No. | 75 (cont) |
| LM End | 0.64 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.863900 ° | 37.863900 ° |
| | | | | -121.323500 ° | -121.323400 ° |
| DWR ID | DWR_RD0544_01_f_2017_75 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| <p>Levee Evaluation Comments</p> <p>Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.</p> <p>Site ID No: 571</p> <p>Site Designation: LMA-477</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 8/10/2017</p> <p>Notes:</p> | | | | | |

Photo 3 of 3 : LEVAL_SP_2018_571_4487.jpg



| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.64 | Rating ** | C | Issue No. | 86 |
| LM End | 0.64 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.863972 ° | 37.863972 ° |
| | | | | -121.323443 ° | -121.323443 ° |
| DWR ID | DWR_RD0544_01_s_2015_86 | | | | |
| Comment Code | | | | | |
| GA : Garbage | | | | | |
| Inspector Comment | | | | | |
| Old "dead end" sign on waterside slope. | | | | | |

No Photos

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
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| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.78 | Rating ** | M | Issue No. | 73 |
| LM End | 0.78 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.863016 ° | 37.863016 ° |
| | | | | -121.321137 ° | -121.321137 ° |
| DWR ID | DWR_RD0544_01_f_2013_73 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.81 | Rating ** | A/W | Issue No. | 93 |
| LM End | 0.81 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.862694 ° | 37.862694 ° |
| | | | | -121.320887 ° | -121.320887 ° |
| DWR ID | DWR_RD0544_01_f_2014_93 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_93_20180323_00069.jpg



Looking west at untrimmed trees on landward slope and toe fall 2015.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
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| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.99 | Rating ** | A/W | Issue No. | 77 |
| LM End | 1.02 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.860400 ° | 37.860200 ° |
| | | | | -121.320300 ° | -121.319700 ° |
| DWR ID | DWR_RD0544_01_f_2017_77 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:570 | | | | | |
| Site Designation:LMA-476 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/10/2017 | | | | | |
| Notes: | | | | | |

Photo 1 of 3 : LEVAL_SP_2018_570_4597.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 0.99 | Rating ** | A/W | Issue No. | 77 (cont) |
| LM End | 1.02 | Issue Type + | Ma | Location * | |

Photo 2 of 3 : LEVAL_SP_2018_570_4598.jpg



| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
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| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.99 | Rating ** | A/W | Issue No. | 77 (cont) |
| LM End | 1.02 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.860400 ° | 37.860200 ° |
| | | | | -121.320300 ° | -121.319700 ° |
| DWR ID | DWR_RD0544_01_f_2017_77 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:570 | | | | | |
| Site Designation:LMA-476 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/10/2017 | | | | | |
| Notes: | | | | | |

Photo 3 of 3 : LEVAL_SP_2018_570_4602.jpg



| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 1.12 | Rating ** | A/W | Issue No. | 39 |
| LM End | 1.12 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.859423 ° | 37.859423 ° |
| | | | | -121.318328 ° | -121.318328 ° |
| DWR ID | DWR_RD0544_01_s_2012_39 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| Untrimmed trees on landside slope. | | | | | |

Photo 1 of 2 : SP_2018_RD0544_108_39_20180323_00033.jpg



Looking southwest at landside slope.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
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| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | | |
|---|-------------------------|--------------|-----|------------------------|-----------|---------------|
| LM Start | 1.12 | Rating ** | A/W | Issue No. | 39 (cont) | |
| LM End | 1.12 | Issue Type + | Ma | Location * | LS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Trim / Thin Trees | | | 37.859423 ° | | 37.859423 ° |
| | | | | -121.318328 ° | | -121.318328 ° |
| DWR ID | DWR_RD0544_01_s_2012_39 | | | | | |
| Comment Code | | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | | |
| Inspector Comment | | | | | | |
| Untrimmed trees on landside slope. | | | | | | |

Photo 2 of 2 : SP_2018_RD0544_108_39_20180323_00034.jpg



Looking southwest at untrimmed tree on landward slope.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.19 | Rating ** | U | Issue No. | 12 |
| LM End | 1.19 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.858489 ° | 37.858489 ° |
| | | | | -121.318743 ° | -121.318743 ° |
| DWR ID | DWR_RD0544_01_s_2018_12 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 1.29 | Rating ** | A/W | Issue No. | 89 |
| LM End | 1.29 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.857321 ° | 37.857321 ° |
| | | | | -121.319943 ° | -121.319943 ° |
| DWR ID | DWR_RD0544_01_s_2014_89 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_89_20180323_00065.jpg



Looking southwest at dense veg on landward slope and toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.44 | Rating ** | N | Issue No. | 14 |
| LM End | 1.44 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.855583 ° | 37.855583 ° |
| | | | | -121.321177 ° | -121.321177 ° |
| DWR ID | DWR_RD0544_01_s_2012_14 | | | | |
| Comment Code | | | | | |
| T5 : Tree stumps. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 1.46 | Rating ** | A/W | Issue No. | 87 |
| LM End | 1.48 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.855416 ° | 37.855043 ° |
| | | | | -121.321171 ° | -121.321122 ° |
| DWR ID | DWR_RD0544_01_s_2015_87 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_87_20180323_00064.jpg



Looking west at untrimmed tree at landward toe fall 2015.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.50 | Rating ** | U | Issue No. | 119 |
| LM End | 1.51 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.854844 ° | 37.854564 ° |
| | | | | -121.321090 ° | -121.321031 ° |
| DWR ID | DWR_RD0544_01_f_2015_119 | | | | |
| Comment Code | | | | | |
| S2 : Repair the levee slope damaged by foot traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| Damaged levee slope due to fishermen using slope as a ramp. | | | | | |

Photo 1 of 3 : SP_2018_RD0544_108_119_20180323_00089.jpg



Looking southeast at damaged waterward slope fall 2015.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 1.50 | Rating ** | U | Issue No. | 119 (cont) |
| LM End | 1.51 | Issue Type + | Ma | Location * | WS |

Photo 2 of 3 : SP_2018_RD0544_108_119_20180323_00090.jpg



Looking east at damaged waterward slope fall 2015.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 1.50 | Rating ** | U | Issue No. | 119 (cont) |
| LM End | 1.51 | Issue Type + | Ma | Location * | WS |

Photo 3 of 3 : SP_2018_RD0544_108_119_20180323_00091.jpg



Looking southeast at damaged waterward slope fall 2015

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.57 | Rating ** | U | Issue No. | 43 |
| LM End | 1.76 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.854108 ° | 37.853980 ° |
| | | | | -121.321582 ° | -121.324213 ° |
| DWR ID | DWR_RD0544_01_s_2012_43 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| Dense vegetation waterside slope. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_43_20180323_00036.jpg



Looking east at dense veg on waterward slope.

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 1.59 | Rating ** | A/W | Issue No. | 95 |
| LM End | 1.59 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.854299 ° | 37.854299 ° |
| | | | | -121.321865 ° | -121.321865 ° |
| DWR ID | DWR_RD0544_01_s_2018_95 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| Untrimmed tree on landside slope. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_95_20180323_00071.jpg



Looking southwest at untrimmed tree on landward slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---------------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.63 | Rating ** | M | Issue No. | 79 |
| LM End | 1.63 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.854598 ° | 37.854598 ° |
| | | | | -121.322320 ° | -121.322320 ° |
| DWR ID | DWR_RD0544_01_s_2017_79 | | | | |
| Comment Code | | | | | |
| GA : Garbage | | | | | |
| Inspector Comment | | | | | |
| Remove abandoned stairs to boat dock. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_79_20180323_00057.jpg



Looking southeast at abandoned wooden boat dock stairs on waterward slope.

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.63 | Rating ** | U | Issue No. | 146 |
| LM End | 1.63 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.854643 ° | 37.854643 ° |
| | | | | -121.322429 ° | -121.322429 ° |
| DWR ID | DWR_RD0544_01_f_2017_146 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| Large rodent hole on landside slope. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_146_20180323_00136.jpg



Looking east at the landside slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 1.64 | Rating ** | A/W | Issue No. | 145 |
| LM End | 1.64 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.854673 ° | 37.854673 ° |
| | | | | -121.322492 ° | -121.322492 ° |
| DWR ID | DWR_RD0544_01_f_2017_145 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_145_20180323_00135.jpg



Looking northwest at the landside slope.

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 1.78 | Rating ** | A/W | Issue No. | 88 |
| LM End | 1.78 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.853770 ° | 37.853770 ° |
| | | | | -121.324293 ° | -121.324293 ° |
| DWR ID | DWR_RD0544_01_s_2015_88 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.82 | Rating ** | U | Issue No. | 80 |
| LM End | 1.82 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.853173 ° | 37.853173 ° |
| | | | | -121.324145 ° | -121.324145 ° |
| DWR ID | DWR_RD0544_01_s_2017_80 | | | | |
| Comment Code | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | |
| Inspector Comment | | | | | |
| Repair slope damage due to water runoff. | | | | | |

Photo 1 of 2 : SP_2018_RD0544_108_80_20180323_00058.jpg



Looking west at slope damage due to rain runoff on waterward slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|-----|
| LM Start | 1.82 | Rating ** | U | Issue No. | 80 (cont) | |
| LM End | 1.82 | Issue Type + | Ma | Location * | LS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Erosion / Bank Caving | | | 37.853173 ° | 37.853173 ° | |
| | | | | -121.324145 ° | -121.324145 ° | |
| DWR ID | DWR_RD0544_01_s_2017_80 | | | | | |
| Comment Code | | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | | |
| Inspector Comment | | | | | | |
| Repair slope damage due to water runoff. | | | | | | |

Photo 2 of 2 : SP_2018_RD0544_108_80_20180323_00059.jpg



Looking south at slope damage due to rain runoff on waterward slope.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.88 | Rating ** | M | Issue No. | 81 |
| LM End | 1.88 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.852327 ° | 37.852327 ° |
| | | | | -121.323767 ° | -121.323767 ° |
| DWR ID | DWR_RD0544_01_f_2017_81 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| Active rodents on levee. | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 1.89 | Rating ** | A/W | Issue No. | 127 |
| LM End | 1.91 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.852300 ° | 37.852000 ° |
| | | | | -121.323700 ° | -121.323600 ° |
| DWR ID | DWR_RD0544_01_f_2017_127 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:569 | | | | | |
| Site Designation:LMA-475 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/10/2017 | | | | | |
| Notes: | | | | | |

Photo 1 of 3 : LEVAL_SP_2018_569_4614.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|-------------------|
| LM Start | 1.89 | Rating ** | A/W | Issue No. | 127 (cont) |
| LM End | 1.91 | Issue Type + | Ma | Location * | |

Photo 2 of 3 : LEVAL_SP_2018_569_4615.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 1.89 | Rating ** | A/W | Issue No. | 127 (cont) |
| LM End | 1.91 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.852300 ° | 37.852000 ° |
| | | | | -121.323700 ° | -121.323600 ° |
| DWR ID | DWR_RD0544_01_f_2017_127 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:569 | | | | | |
| Site Designation:LMA-475 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/10/2017 | | | | | |
| Notes: | | | | | |

Photo 3 of 3 : LEVAL_SP_2018_569_4616.jpg



| | | | | | |
|----------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.25 | Rating ** | M | Issue No. | 82 |
| LM End | 2.25 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.848302 ° | 37.848302 ° |
| | | | | -121.324877 ° | -121.324877 ° |
| DWR ID | DWR_RD0544_01_s_2017_82 | | | | |
| Comment Code | | | | | |
| EQ : Equipment | | | | | |
| Inspector Comment | | | | | |
| Old irrigation pipe. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_82_20180323_00060.jpg



Looking southwest at old irrigation pipe on landward shoulder.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.26 | Rating ** | U | Issue No. | 23 |
| LM End | 2.26 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.848155 ° | 37.848155 ° |
| | | | | -121.324897 ° | -121.324897 ° |
| DWR ID | DWR_RD0544_01_s_2012_23 | | | | |
| Comment Code | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | |
| Inspector Comment | | | | | |
| Caving/erosion around irrigation pipe on landside slope. | | | | | |

Photo 1 of 3 : SP_2018_RD0544_108_23_20180323_00024.jpg



Looking south at erosion around irrigation pipe on landside slope. (Fall 2014)

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.26 | Rating ** | U | Issue No. | 23 (cont) |
| LM End | 2.26 | Issue Type + | Ma | Location * | LS |

Photo 2 of 3 : SP_2018_RD0544_108_23_20180323_00025.jpg



Looking north at erosion under irrigation pipe on landside slope.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.26 | Rating ** | U | Issue No. | 23 (cont) |
| LM End | 2.26 | Issue Type + | Ma | Location * | LS |

Photo 3 of 3 : SP_2018_RD0544_108_23_20180323_00026.jpg



Looking east at erosion under irrigation pipe on landside slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 2.26 | Rating ** | A/W | Issue No. | 98 |
| LM End | 2.31 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.848021 ° | 37.847343 ° |
| | | | | -121.324839 ° | -121.324672 ° |
| DWR ID | DWR_RD0544_01_f_2014_98 | | | | |
| Comment Code | | | | | |
| T2 : Thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| Untrimmed trees on landside slope. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_98_20180323_00073.jpg



Looking south at untrimmed trees on landward slope.

| | | | | | |
|---|------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.27 | Rating ** | U | Issue No. | 8 |
| LM End | 2.33 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.847973 ° | 37.847105 ° |
| | | | | -121.324820 ° | -121.324577 ° |
| DWR ID | DWR_RD0544_01_s_2012_8 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_8_20180323_00014.jpg



Looking southwest at several rodent holes on landward shoulder and slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.30 | Rating ** | M | Issue No. | 90 |
| LM End | 2.30 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.847542 ° | 37.847542 ° |
| | | | | -121.324732 ° | -121.324732 ° |
| DWR ID | DWR_RD0544_01_s_2017_90 | | | | |
| Comment Code | | | | | |
| C2 : Repair depressions or ruts in the crown or slope. | | | | | |
| Inspector Comment | | | | | |
| Sinkhole forming in crown. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_90_20180323_00066.jpg



Looking at sinkhole on levee crown.

| | | | | | |
|---|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 2.31 | Rating ** | A/W | Issue No. | 149 |
| LM End | 2.31 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.847327 ° | 37.847327 ° |
| | | | | -121.324663 ° | -121.324663 ° |
| DWR ID | DWR_RD0544_01_f_2017_149 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | | | | | | | | |
|--|--------------------------|--------------|------------------------|---------------|------------|--|--|--|--|--|--|--|
| LM Start | 2.31 | Rating ** | A/W | Issue No. | 128 | | | | | | | |
| LM End | 2.35 | Issue Type + | Ma | Location * | | | | | | | | |
| Category | Supplemental | | GPS Latitude/Longitude | | | | | | | | | |
| | | | Start | End | | | | | | | | |
| Item | 2017 Storm Damage | | 37.847300 ° | 37.846800 ° | | | | | | | | |
| | | | -121.324700 ° | -121.324400 ° | | | | | | | | |
| DWR ID | DWR_RD0544_01_f_2017_128 | | | | | | | | | | | |
| Comment Code | | | | | | | | | | | | |
| Inspector Comment | | | | | | | | | | | | |
| Levee Evaluation Comments Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. Site ID No: 568 Site Designation: LMA-474 Repair Type: Erosion Rating: Area of Concern Field Date: 8/10/2017 Notes: | | | | | | | | | | | | |

Photo 1 of 3 : LEVAL_SP_2018_568_4540.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|-------------------|
| LM Start | 2.31 | Rating ** | A/W | Issue No. | 128 (cont) |
| LM End | 2.35 | Issue Type + | Ma | Location * | |

Photo 2 of 3 : LEVAL_SP_2018_568_4545.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | | |
|---|--------------------------|--------------|-----|------------------------|---------------|--|
| LM Start | 2.31 | Rating ** | A/W | Issue No. | 128 (cont) | |
| LM End | 2.35 | Issue Type + | Ma | Location * | | |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| | | | | Start | End | |
| Item | 2017 Storm Damage | | | 37.847300 ° | 37.846800 ° | |
| | | | | -121.324700 ° | -121.324400 ° | |
| DWR ID | DWR_RD0544_01_f_2017_128 | | | | | |
| Comment Code | | | | | | |
| | | | | | | |
| | | | | | | |
| Inspector Comment | | | | | | |
| Levee Evaluation Comments | | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | | |
| Site ID No:568 | | | | | | |
| Site Designation:LMA-474 | | | | | | |
| Repair Type: Erosion | | | | | | |
| Rating:Area of Concern | | | | | | |
| Field Date:8/10/2017 | | | | | | |
| Notes: | | | | | | |

Photo 3 of 3 : LEVAL_SP_2018_568_4547.jpg



| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.32 | Rating ** | U | Issue No. | 34 |
| LM End | 2.36 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.847292 ° | 37.846743 ° |
| | | | | -121.324662 ° | -121.324336 ° |
| DWR ID | DWR_RD0544_01_s_2012_34 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| Several rodent hole within this reach. | | | | | |

Photo 1 of 3 : SP_2018_RD0544_108_34_20180323_00029.jpg



Looking east at large rodent hole on landward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | | | | | | | | |
|---|--------------------------|--------------|------------------------|---------------|------------|--|--|--|--|--|--|--|
| LM Start | 2.53 | Rating ** | A/W | Issue No. | 129 | | | | | | | |
| LM End | 2.56 | Issue Type + | Ma | Location * | | | | | | | | |
| Category | Supplemental | | GPS Latitude/Longitude | | | | | | | | | |
| | | | Start | End | | | | | | | | |
| Item | 2017 Storm Damage | | 37.844900 ° | 37.844500 ° | | | | | | | | |
| | | | -121.322300 ° | -121.321900 ° | | | | | | | | |
| DWR ID | DWR_RD0544_01_f_2017_129 | | | | | | | | | | | |
| Comment Code | | | | | | | | | | | | |
| Inspector Comment | | | | | | | | | | | | |
| Levee Evaluation Comments Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. Site ID No: 567 Site Designation: LMA-473 Repair Type: Erosion Rating: Area of Concern Field Date: 8/10/2017 Notes: large rodent holes observed on landside slope. | | | | | | | | | | | | |

Photo 1 of 3 : LEVAL_SP_2018_567_4552.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|-------------------|
| LM Start | 2.53 | Rating ** | A/W | Issue No. | 129 (cont) |
| LM End | 2.56 | Issue Type + | Ma | Location * | |

Photo 2 of 3 : LEVAL_SP_2018_567_4554.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 2.53 | Rating ** | A/W | Issue No. | 129 (cont) |
| LM End | 2.56 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.844900 ° | 37.844500 ° |
| | | | | -121.322300 ° | -121.321900 ° |
| DWR ID | DWR_RD0544_01_f_2017_129 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:567 | | | | | |
| Site Designation:LMA-473 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/10/2017 | | | | | |
| Notes: large rodent holes observed on landside slope. | | | | | |

Photo 3 of 3 : LEVAL_SP_2018_567_4556.jpg



| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.53 | Rating ** | U | Issue No. | 15 |
| LM End | 2.53 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.844880 ° | 37.844880 ° |
| | | | | -121.322212 ° | -121.322212 ° |
| DWR ID | DWR_RD0544_01_s_2018_15 | | | | |
| Comment Code | | | | | |
| S1 : Repair slope instability. | | | | | |
| Inspector Comment | | | | | |
| Large finger erosions on landward slope. | | | | | |

Photo 1 of 2 : SP_2018_RD0544_108_15_20180427_00181.jpg



Looking southeast at slope damage on landward slope. (Spring 2018)

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | | |
|--|-------------------------|--------------|----|------------------------|-----------|---------------|
| LM Start | 2.53 | Rating ** | U | Issue No. | 15 (cont) | |
| LM End | 2.53 | Issue Type + | Ma | Location * | LS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Slope Stability | | | 37.844880 ° | | 37.844880 ° |
| | | | | -121.322212 ° | | -121.322212 ° |
| DWR ID | DWR_RD0544_01_s_2018_15 | | | | | |
| Comment Code | | | | | | |
| S1 : Repair slope instability. | | | | | | |
| Inspector Comment | | | | | | |
| Large finger erosions on landward slope. | | | | | | |

Photo 2 of 2 : SP_2018_RD0544_108_15_20180427_00182.jpg



Looking south at slope erosion on landward slope. (Spring 2018)

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.54 | Rating ** | M | Issue No. | 60 |
| LM End | 2.58 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.844765 ° | 37.844253 ° |
| | | | | -121.322143 ° | -121.321850 ° |
| DWR ID | DWR_RD0544_01_s_2012_60 | | | | |
| Comment Code | | | | | |
| S2 : Repair the levee slope damaged by foot traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| Finger erosion on landside slope. | | | | | |

Photo 1 of 2 : SP_2018_RD0544_108_60_20180323_00043.jpg



Looking north at slope damage on landside slope.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.54 | Rating ** | M | Issue No. | 60 (cont) |
| LM End | 2.58 | Issue Type + | Ma | Location * | LS |

Photo 2 of 2 : SP_2018_RD0544_108_60_20180323_00044.jpg



Looking south at slope damage on landside slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.84 | Rating ** | N | Issue No. | 22 |
| LM End | 2.84 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.841075 ° | 37.841075 ° |
| | | | | -121.320205 ° | -121.320205 ° |
| DWR ID | DWR_RD0544_01_s_2012_22 | | | | |
| Comment Code | | | | | |
| T5 : Tree stumps. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.89 | Rating ** | U | Issue No. | 106 |
| LM End | 3.16 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.840952 ° | 37.837588 ° |
| | | | | -121.319327 ° | -121.317540 ° |
| DWR ID | DWR_RD0544_01_s_2015_106 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| Dense willows and vegetation on waterside slope. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_106_20180323_00077.jpg



Looking southeast at dense willows (veg) on waterward slope and toe fall 2015.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.95 | Rating ** | M | Issue No. | 107 |
| LM End | 2.96 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.840560 ° | 37.840467 ° |
| | | | | -121.318463 ° | -121.318367 ° |
| DWR ID | DWR_RD0544_01_s_2015_107 | | | | |
| Comment Code | | | | | |
| E1 : Note and monitor erosion site. | | | | | |
| Inspector Comment | | | | | |
| Several depressions on landside slope within this reach. | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 2.95 | Rating ** | M | Issue No. | 107 (cont) |
| LM End | 2.96 | Issue Type + | Ma | Location * | LS |

Photo 1 of 2 : SP_2018_RD0544_108_107_20180323_00078.jpg



Looking south at depression on landward slope.

Photo 2 of 2 : SP_2018_RD0544_108_107_20180323_00079.jpg



Looking west at depression on landward shoulder.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|--------------------|--------------|----|------------------------|---------------|
| LM Start | 2.95 | Rating ** | M | Issue No. | 5 |
| LM End | 2.95 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.840697 ° | 37.840697 ° |
| | | | | -121.318252 ° | -121.318252 ° |
| DWR ID | RD0544U01RM49.67 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| 09/13/2017: No significant change observed. 07/25/2016: No significant change observed. 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: Pump has been removed. A larger pocket erosion has been found at the erosion site. 08/07/2012: The erosion is immediately upstream of a river bend. Dense vegetation is visible at the erosion site. [2017 Site ID:RD0544U01RM49.67] | | | | | |

Photo 1 of 3 : SP_2018_RD0544_108_5_20180323_00010.jpg



Front view of the erosion.

| | | | | | |
|----------|-------------|--------------|----|------------|-----------------|
| LM Start | 2.95 | Rating ** | M | Issue No. | 5 (cont) |
| LM End | 2.95 | Issue Type + | Ma | Location * | WS |

Photo 2 of 3 : SP_2018_RD0544_108_5_20180323_00011.jpg



Front view of the erosion.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | | |
|--|--------------------|--------------|----|------------------------|----------|---------------|
| LM Start | 2.95 | Rating ** | M | Issue No. | 5 (cont) | |
| LM End | 2.95 | Issue Type + | Ma | Location * | WS | |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | DWR Erosion Survey | | | 37.840697 ° | | 37.840697 ° |
| | | | | -121.318252 ° | | -121.318252 ° |
| DWR ID | RD0544U01RM49.67 | | | | | |
| Comment Code | | | | | | |
| | | | | | | |
| Inspector Comment | | | | | | |
| 09/13/2017: No significant change observed. | | | | | | |
| 07/25/2016: No significant change observed. | | | | | | |
| 06/24/2015: No significant change observed. | | | | | | |
| 06/19/2014: No significant change observed. | | | | | | |
| 08/13/2013: Pump has been removed. A larger pocket erosion has been found at the erosion site. | | | | | | |
| 08/07/2012: The erosion is immediately upstream of a river bend. | | | | | | |
| Dense vegetation is visible at the erosion site. [2017 Site ID:RD0544U01RM49.67] | | | | | | |

Photo 3 of 3 : SP_2018_RD0544_108_5_20180323_00012.jpg



Downstream view of the site.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.95 | Rating ** | U | Issue No. | 47 |
| LM End | 3.19 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.840485 ° | 37.837225 ° |
| | | | | -121.318390 ° | -121.317408 ° |
| DWR ID | DWR_RD0544_01_s_2012_47 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_47_20180323_00038.jpg



Looking south at dense veg on landward slope fall 2015.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 2.98 | Rating ** | A/W | Issue No. | 151 |
| LM End | 3.18 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.840184 ° | 37.837294 ° |
| | | | | -121.318192 ° | -121.317420 ° |
| DWR ID | DWR_RD0544_01_f_2017_151 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_151_20180323_00137.jpg



Looking south at the levee crown.

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.08 | Rating ** | M | Issue No. | 108 |
| LM End | 3.08 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.838733 ° | 37.838733 ° |
| | | | | -121.317918 ° | -121.317918 ° |
| DWR ID | DWR_RD0544_01_s_2015_108 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.14 | Rating ** | M | Issue No. | 76 |
| LM End | 3.14 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.837929 ° | 37.837929 ° |
| | | | | -121.317663 ° | -121.317663 ° |
| DWR ID | DWR_RD0544_01_f_2013_76 | | | | |
| Comment Code | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | |
| Inspector Comment | | | | | |
| Slope damaged extends from levee slope to shoulder. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_76_20180323_00053.jpg



Looking east at slope damage on waterward slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.17 | Rating ** | M | Issue No. | 62 |
| LM End | 3.17 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.837530 ° | 37.837530 ° |
| | | | | -121.317510 ° | -121.317510 ° |
| DWR ID | DWR_RD0544_01_s_2012_62 | | | | |
| Comment Code | | | | | |
| S2 : Repair the levee slope damaged by foot traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| Slope damage due to foot traffic. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_62_20180323_00045.jpg



Looking east at slope damaged by foot traffic near pump house on waterside of levee.

| | | | | | |
|---|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 3.21 | Rating ** | A/W | Issue No. | 131 |
| LM End | 3.22 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.836900 ° | 37.836700 ° |
| | | | | -121.317300 ° | -121.317300 ° |
| DWR ID | DWR_RD0544_01_f_2017_131 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:566 | | | | | |
| Site Designation:LMA-472 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/10/2017 | | | | | |
| Notes: | | | | | |

Photo 1 of 3 : LEVAL_SP_2018_566_4714.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 3.21 | Rating ** | A/W | Issue No. | 131 (cont) |
| LM End | 3.22 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.836900 ° | 37.836700 ° |
| | | | | -121.317300 ° | -121.317300 ° |
| DWR ID | DWR_RD0544_01_f_2017_131 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:566 | | | | | |
| Site Designation:LMA-472 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/10/2017 | | | | | |
| Notes: | | | | | |

Photo 2 of 3 : LEVAL_SP_2018_566_4717.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|-------------------|
| LM Start | 3.21 | Rating ** | A/W | Issue No. | 131 (cont) |
| LM End | 3.22 | Issue Type + | Ma | Location * | |

Photo 3 of 3 : LEVAL_SP_2018_566_4722.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.22 | Rating ** | U | Issue No. | 49 |
| LM End | 3.84 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.836763 ° | 37.829195 ° |
| | | | | -121.317307 ° | -121.311918 ° |
| DWR ID | DWR_RD0544_01_s_2012_49 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| Dense vegetation on waterside slope. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_49_20180323_00040.jpg



Looking northeast at dense veg on waterward slope.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.23 | Rating ** | U | Issue No. | 48 |
| LM End | 3.26 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.836615 ° | 37.836133 ° |
| | | | | -121.317285 ° | -121.317153 ° |
| DWR ID | DWR_RD0544_01_s_2012_48 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_48_20180323_00039.jpg



Looking south at typical view of dense veg on landward slope.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.48 | Rating ** | M | Issue No. | 56 |
| LM End | 3.48 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.833583 ° | 37.833583 ° |
| | | | | -121.314968 ° | -121.314968 ° |
| DWR ID | DWR_RD0544_01_s_2012_56 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|----------|-----------------------------|--------------|------------------------|---------------|------------|
| LM Start | 3.49 | Rating ** | A/W | Issue No. | 162 |
| LM End | 3.49 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | DWR UCIP LMA Responsibility | | 37.833475 ° | 37.833475 ° | |
| | | | -121.314822 ° | -121.314822 ° | |
| DWR ID | | | | | |

Comment Code

Inspector Comment

FS_ID:24892
DS_ID:22658
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: - pipe on channel bank looks comparatively new.- pump approximately 500 ft. from the levee center on landside in drainage ditch.- a tall concrete standpipe and service pole near the pump.
FIELD_STRUCT_DESC: 12-inch steel drainage discharge pipe through the levee, 3 feet below the crown. Pump and concrete standpipe in a drainage ditch on the landside (LS). Air vent on the waterside (WS).
[Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 7, April 1964, (HLM 3.53)].
FS Date: 10/29/2013

| | | | | | |
|----------|-------------|--------------|-----|------------|-------------------|
| LM Start | 3.49 | Rating ** | A/W | Issue No. | 162 (cont) |
| LM End | 3.49 | Issue Type + | Ma | Location * | |

Photo 1 of 3 : UCIP_SP_2018_24892_44853.jpg



WS view: exposed steel pipe on bank of the channel.

Photo 2 of 3 : UCIP_SP_2018_24892_44852.jpg



WS view: exposed steel pipe and air vent on the pipe.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | | |
|---|-----------------------------|--------------|-----|------------------------|---------------|-----|
| LM Start | 3.49 | Rating ** | A/W | Issue No. | 162 (cont) | |
| LM End | 3.49 | Issue Type + | Ma | Location * | | |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | DWR UCIP LMA Responsibility | | | 37.833475 ° | 37.833475 ° | |
| | | | | -121.314822 ° | -121.314822 ° | |
| DWR ID | | | | | | |
| Comment Code | | | | | | |
| | | | | | | |
| Inspector Comment | | | | | | |
| FS_ID:24892 | | | | | | |
| DS_ID:22658 | | | | | | |
| EP_NO: N/A | | | | | | |
| Repair Type: No Action Needed | | | | | | |
| Crossing Status: Found | | | | | | |
| UCIP Comments: - pipe on channel bank looks comparatively new.- pump approximately 500 ft. from the levee center on landside in drainage ditch.- a tall concrete standpipe and service pole near the pump. | | | | | | |
| FIELD_STRUCT_DESC: 12-inch steel drainage discharge pipe through the levee, 3 feet below the crown. Pump and concrete standpipe in a drainage ditch on the landside (LS). Air vent on the waterside (WS). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 7, April 1964, (HLM 3.53)]. | | | | | | |
| FS Date: 10/29/2013 | | | | | | |

Photo 3 of 3 : UCIP_SP_2018_24892_44851.jpg



LS view: service pole, pump, and a concrete standpipe on bank of drainage ditch about 500 ft from the levee.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.49 | Rating ** | U | Issue No. | 51 |
| LM End | 4.67 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.833432 ° | 37.821853 ° |
| | | | | -121.314792 ° | -121.319992 ° |
| DWR ID | DWR_RD0544_01_s_2012_51 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_51_20180323_00041.jpg



Looking southeast at the landside slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 3.65 | Rating ** | A/W | Issue No. | 132 |
| LM End | 3.67 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.831800 ° | 37.831600 ° |
| | | | | -121.312700 ° | -121.312600 ° |
| DWR ID | DWR_RD0544_01_f_2017_132 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:565 | | | | | |
| Site Designation:LMA-471 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/11/2017 | | | | | |
| Notes: dense shrubs on levee slope | | | | | |

Photo 1 of 3 : LEVAL_SP_2018_565_4739.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|-------------------|
| LM Start | 3.65 | Rating ** | A/W | Issue No. | 132 (cont) |
| LM End | 3.67 | Issue Type + | Ma | Location * | |

Photo 2 of 3 : LEVAL_SP_2018_565_4741.jpg



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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

Photo 3 of 3 : LEVAL_SP_2018_565_4745.jpg

A photograph showing a riverbank. In the foreground, there is a sandy shore with some sparse green vegetation and several thin, light-colored trees or shrubs. The water is calm and reflects the sky. In the background, there are more trees and a utility pole. The sky is clear and blue.

Photo 1 of 3 : LEVAL_SP_2018_564_4748.jpg

A photograph showing a riverbank. The foreground is dominated by a dense patch of dry, yellowish-brown grass. To the right, a calm body of water reflects the sky. In the background, there is a line of green trees and a concrete or stone structure, possibly a dam or a bridge. The sky is clear and blue.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 3.69 | Rating ** | A/W | Issue No. | 133 (cont) |
| LM End | 3.73 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.831300 ° | 37.830700 ° |
| | | | | -121.312600 ° | -121.312300 ° |
| DWR ID | DWR_RD0544_01_f_2017_133 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:564 | | | | | |
| Site Designation:LMA-470 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/11/2017 | | | | | |
| Notes: big rodent holes on levee slopes | | | | | |

Photo 2 of 3 : LEVAL_SP_2018_564_4750.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|-------------------|
| LM Start | 3.69 | Rating ** | A/W | Issue No. | 133 (cont) |
| LM End | 3.73 | Issue Type + | Ma | Location * | |

Photo 3 of 3 : LEVAL_SP_2018_564_4756.jpg



* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

** Rating
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.76 | Rating ** | M | Issue No. | 109 |
| LM End | 3.92 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.830250 ° | 37.828013 ° |
| | | | | -121.312323 ° | -121.311467 ° |
| DWR ID | DWR_RD0544_01_s_2015_109 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|----------------------------|--------------|-----|------------------------|---------------|
| LM Start | 3.79 | Rating ** | A/W | Issue No. | 134 |
| LM End | 3.81 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.829800 ° | 37.829600 ° |
| | | | | -121.312100 ° | -121.312100 ° |
| DWR ID | DWR_RD0544_01_f _ 2017_134 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:563 | | | | | |
| Site Designation:LMA-469 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Serious | | | | | |
| Field Date:8/11/2017 | | | | | |
| Notes: site combined with LMA-468;see LMA-468 for details. | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 3.81 | Rating ** | A/W | Issue No. | 135 |
| LM End | 3.82 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.829600 ° | 37.829400 ° |
| | | | | -121.312000 ° | -121.312000 ° |
| DWR ID | DWR_RD0544_01_f_2017_135 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:562 | | | | | |
| Site Designation:LMA-468 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Serious | | | | | |
| Field Date:8/11/2017 | | | | | |
| Notes: Site combined with LMA-469; | | | | | |

Photo 1 of 3 : LEVAL_SP_2018_562_4770.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|-------------------|
| LM Start | 3.81 | Rating ** | A/W | Issue No. | 135 (cont) |
| LM End | 3.82 | Issue Type + | Ma | Location * | |

Photo 2 of 3 : LEVAL_SP_2018_562_4835.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.97 | Rating ** | M | Issue No. | 24 |
| LM End | 3.97 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.827360 ° | 37.827360 ° |
| | | | | -121.311067 ° | -121.311067 ° |
| DWR ID | DWR_RD0544_01_s_2015_24 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.09 | Rating ** | C | Issue No. | 123 |
| LM End | 4.09 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.825903 ° | 37.825903 ° |
| | | | | -121.311466 ° | -121.311466 ° |
| DWR ID | DWR_RD0544_01_s_2016_123 | | | | |
| Comment Code | | | | | |
| TR : Tree or limb | | | | | |
| Inspector Comment | | | | | |
| Broken tree branch and prunings on landside slope. | | | | | |

No Photos

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.25 | Rating ** | U | Issue No. | 120 |
| LM End | 4.28 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.825482 ° | 37.825229 ° |
| | | | | -121.314298 ° | -121.314771 ° |
| DWR ID | DWR_RD0544_01_f_2015_120 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| Several untrimmed trees on landside slope. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_120_20180323_00092.jpg



Looking southwest at untrimmed trees on landward slope.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.30 | Rating ** | M | Issue No. | 59 |
| LM End | 4.30 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.824943 ° | 37.824943 ° |
| | | | | -121.315008 ° | -121.315008 ° |
| DWR ID | DWR_RD0544_01_s_2012_59 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_59_20180323_00042.jpg



Looking south at dense veg on landward and waterward slopes.

| | | | | | |
|--|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 4.34 | Rating ** | A/W | Issue No. | 100 |
| LM End | 4.34 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.824373 ° | 37.824373 ° |
| | | | | -121.315207 ° | -121.315207 ° |
| DWR ID | DWR_RD0544_01_s_2017_100 | | | | |
| Comment Code | | | | | |
| TR : Tree or limb | | | | | |
| Inspector Comment | | | | | |
| Broken tree limbs and branches on waterside slope. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_100_20180323_00074.jpg



Looking south at broken tree limb and branches on waterward slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.36 | Rating ** | M | Issue No. | 102 |
| LM End | 4.42 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.824170 ° | 37.823494 ° |
| | | | | -121.315223 ° | -121.315792 ° |
| DWR ID | DWR_RD0544_01_f_2017_102 | | | | |
| Comment Code | | | | | |
| C3 : Add appropriate gravel or road base. Grade and compact. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.41 | Rating ** | U | Issue No. | 117 |
| LM End | 4.79 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.823522 ° | 37.820557 ° |
| | | | | -121.315735 ° | -121.321217 ° |
| DWR ID | DWR_RD0544_01_s_2017_117 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : SP_2018_RD0544_108_117_20180323_00086.jpg



Looking southwest at the waterside slope.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 4.41 | Rating ** | U | Issue No. | 117 (cont) |
| LM End | 4.79 | Issue Type + | Ma | Location * | WS |

Photo 2 of 2 : SP_2018_RD0544_108_117_20180323_00087.jpg



Looking south at dense veg on waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|--------------------------|--------------|---------------|------------------------|-----|
| LM Start | 4.46 | Rating ** | A/W | Issue No. | 136 |
| LM End | 4.48 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | 37.823200 ° | 37.823000 ° | |
| | | | -121.316400 ° | -121.316800 ° | |
| DWR ID | DWR_RD0544_01_f_2017_136 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:561 | | | | | |
| Site Designation:LMA-467 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/11/2017 | | | | | |
| Notes: site combined with LMA-466 in field; length and coordinates redefined in field. | | | | | |

Photo 1 of 3 : LEVAL_SP_2018_561_4862.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|-------------------|
| LM Start | 4.46 | Rating ** | A/W | Issue No. | 136 (cont) |
| LM End | 4.48 | Issue Type + | Ma | Location * | |

Photo 2 of 3 : LEVAL_SP_2018_561_4866.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|--------------------------|--------------|-----|------------------------|-------------------|
| LM Start | 4.46 | Rating ** | A/W | Issue No. | 136 (cont) |
| LM End | 4.48 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.823200 ° | 37.823000 ° |
| | | | | -121.316400 ° | -121.316800 ° |
| DWR ID | DWR_RD0544_01_f_2017_136 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| <p>Levee Evaluation Comments</p> <p>Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.</p> <p>Site ID No: 561</p> <p>Site Designation: LMA-467</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 8/11/2017</p> <p>Notes: site combined with LMA-466 in field; length and coordinates redefined in field.</p> | | | | | |

Photo 3 of 3 : LEVAL_SP_2018_561_4867.jpg



| | | | | | |
|--|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 4.48 | Rating ** | A/W | Issue No. | 138 |
| LM End | 4.48 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.823000 ° | 37.823000 ° |
| | | | | -121.316700 ° | -121.316800 ° |
| DWR ID | DWR_RD0544_01_f_2017_138 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| <p>Levee Evaluation Comments</p> <p>Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.</p> <p>Site ID No: 560</p> <p>Site Designation: LMA-466</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 8/11/2017</p> <p>Notes: site combined with LMA-467 in field; see LMA-467 for details.</p> | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.48 | Rating ** | M | Issue No. | 103 |
| LM End | 4.48 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.823027 ° | 37.823027 ° |
| | | | | -121.316737 ° | -121.316737 ° |
| DWR ID | DWR_RD0544_01_f_2014_103 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.49 | Rating ** | U | Issue No. | 41 |
| LM End | 4.49 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.822934 ° | 37.822934 ° |
| | | | | -121.316870 ° | -121.316870 ° |
| DWR ID | DWR_RD0544_01_s_2012_41 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_41_20180323_00035.jpg



Looking south at elderberries on landside slope and toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.64 | Rating ** | U | Issue No. | 104 |
| LM End | 4.68 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.822033 ° | 37.821826 ° |
| | | | | -121.319432 ° | -121.320071 ° |
| DWR ID | DWR_RD0544_01_f_2014_104 | | | | |
| Comment Code | | | | | |
| T2 : Thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| Dense untrimmed trees on landside slope. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_104_20180323_00075.jpg



Looking southwest at dense untrimmed trees on landward slope fall 2015.

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.69 | Rating ** | U | Issue No. | 105 |
| LM End | 4.69 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.821775 ° | 37.821775 ° |
| | | | | -121.320203 ° | -121.320203 ° |
| DWR ID | DWR_RD0544_01_f_2014_105 | | | | |
| Comment Code | | | | | |
| T2 : Thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| Tree has overgrown onto levee crown. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_105_20180323_00076.jpg



Looking south at overgrown tree on landward shoulder.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--------------------------------|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.69 | Rating ** | M | Issue No. | 111 |
| LM End | 4.69 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.821783 ° | 37.821783 ° |
| | | | | -121.320237 ° | -121.320237 ° |
| DWR ID | DWR_RD0544_01_s_2015_111 | | | | |
| Comment Code | | | | | |
| PR : Prunings | | | | | |
| Inspector Comment | | | | | |
| Prunings on landside shoulder. | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 4.71 | Rating ** | A/W | Issue No. | 29 |
| LM End | 4.71 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.821626 ° | 37.821626 ° |
| | | | | -121.320471 ° | -121.320471 ° |
| DWR ID | DWR_RD0544_01_s_2012_29 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| District has employed a rodent control program and grouted holes. | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.71 | Rating ** | M | Issue No. | 26 |
| LM End | 4.74 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.821592 ° | 37.821253 ° |
| | | | | -121.320617 ° | -121.320927 ° |
| DWR ID | DWR_RD0544_01_s_2012_26 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.74 | Rating ** | U | Issue No. | 83 |
| LM End | 4.74 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.821287 ° | 37.821287 ° |
| | | | | -121.320897 ° | -121.320897 ° |
| DWR ID | DWR_RD0544_01_f_2016_83 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| Large rodent hole on waterside shoulder. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_83_20180323_00061.jpg



Looking at large rodent hole on landward slope.

| | | | | | |
|---|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 4.77 | Rating ** | A/W | Issue No. | 112 |
| LM End | 4.77 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.820828 ° | 37.820828 ° |
| | | | | -121.321193 ° | -121.321193 ° |
| DWR ID | DWR_RD0544_01_s_2015_112 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_112_20180323_00081.jpg



Looking southwest at dense trees on landward slope and toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.77 | Rating ** | U | Issue No. | 113 |
| LM End | 4.77 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.820828 ° | 37.820828 ° |
| | | | | -121.321193 ° | -121.321193 ° |
| DWR ID | DWR_RD0544_01_s_2015_113 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| Large hole, possibly a rodent hole, on waterside slope. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_108_113_20180323_00082.jpg



Looking north at large hole on waterward slope.

| | | | | | |
|---|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 4.97 | Rating ** | A/W | Issue No. | 139 |
| LM End | 4.99 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.818600 ° | 37.818400 ° |
| | | | | -121.319200 ° | -121.319000 ° |
| DWR ID | DWR_RD0544_01_f_2017_139 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:559 | | | | | |
| Site Designation:LMA-465 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Serious | | | | | |
| Field Date:8/11/2017 | | | | | |
| Notes: | | | | | |

Photo 1 of 3 : LEVAL_SP_2018_559_4887.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|--------------------------|--------------|------------------------|---------------|-------------------|
| LM Start | 4.97 | Rating ** | A/W | Issue No. | 139 (cont) |
| LM End | 4.99 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | 2017 Storm Damage | | 37.818600 ° | 37.818400 ° | |
| | | | -121.319200 ° | -121.319000 ° | |
| DWR ID | DWR_RD0544_01_f_2017_139 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| <p>Levee Evaluation Comments</p> <p>Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.</p> <p>Site ID No: 559</p> <p>Site Designation: LMA-465</p> <p>Repair Type: Erosion</p> <p>Rating: Serious</p> <p>Field Date: 8/11/2017</p> <p>Notes:</p> | | | | | |

Photo 2 of 3 : LEVAL_SP_2018_559_4892.jpg



Photo 3 of 3 : LEVAL_SP_2018_559_4894.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.00 | Rating ** | C | Issue No. | 17 |
| LM End | 5.00 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.818152 ° | 37.818152 ° |
| | | | | -121.319095 ° | -121.319095 ° |
| DWR ID | DWR_RD0544_01_s_2017_17 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.02 | Rating ** | M | Issue No. | 125 |
| LM End | 5.02 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.817942 ° | 37.817942 ° |
| | | | | -121.319118 ° | -121.319118 ° |
| DWR ID | DWR_RD0544_01_s_2017_125 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.07 | Rating ** | M | Issue No. | 32 |
| LM End | 5.07 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.817291 ° | 37.817291 ° |
| | | | | -121.319399 ° | -121.319399 ° |
| DWR ID | DWR_RD0544_01_f_2017_32 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 5.32 | Rating ** | A/W | Issue No. | 140 |
| LM End | 5.36 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.813900 ° | 37.813500 ° |
| | | | | -121.319900 ° | -121.319400 ° |
| DWR ID | DWR_RD0544_01_f_2017_140 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:558 | | | | | |
| Site Designation:LMA-464 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Serious | | | | | |
| Field Date:8/16/2017 | | | | | |
| Notes: | | | | | |

Photo 1 of 3 : LEVAL_SP_2018_558_4900.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|-------------------|
| LM Start | 5.32 | Rating ** | A/W | Issue No. | 140 (cont) |
| LM End | 5.36 | Issue Type + | Ma | Location * | |

Photo 2 of 3 : LEVAL_SP_2018_558_4904.jpg



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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

Photo 3 of 3 : LEVAL_SP_2018_558_4910.jpg



Photo 1 of 3 : LEVAL_SP_2018_557_4510.jpg

A photograph showing a natural landscape. In the foreground, there are tall, green reeds and some smaller plants. A body of water is visible in the middle ground. In the background, there is a line of trees and a clear blue sky. The photo is labeled 'Photo 1 of 3 : LEVAL_SP_2018_557_4510.jpg' at the top.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 5.36 | Rating ** | A/W | Issue No. | 141 (cont) |
| LM End | 5.37 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.813400 ° | 37.813300 ° |
| | | | | -121.319300 ° | -121.319200 ° |
| DWR ID | DWR_RD0544_01_f_2017_141 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:557 | | | | | |
| Site Designation:LMA-463 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/16/2017 | | | | | |
| Notes: | | | | | |

Photo 2 of 3 : LEVAL_SP_2018_557_4513.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|-------------------|
| LM Start | 5.36 | Rating ** | A/W | Issue No. | 141 (cont) |
| LM End | 5.37 | Issue Type + | Ma | Location * | |

Photo 3 of 3 : LEVAL_SP_2018_557_4514.jpg



* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

** Rating
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | | |
|--|--------------------------|--------------|----|------------------------|------------|---------------|
| LM Start | 5.60 | Rating ** | U | Issue No. | 121 (cont) | |
| LM End | 5.60 | Issue Type + | Ma | Location * | WS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Erosion / Bank Caving | | | 37.811234 ° | | 37.811234 ° |
| | | | | -121.321412 ° | | -121.321412 ° |
| DWR ID | DWR_RD0544_01_f_2015_121 | | | | | |
| Comment Code | | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | | |
| Inspector Comment | | | | | | |
| Someone digging/excavating on waterward berm. Excavation in 3ft wide and eighteen inches deep and ten feet long. | | | | | | |

Photo 2 of 4 : SP_2018_RD0544_108_121_20180323_00094.jpg



Looking east at excavation on waterward berm.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 5.60 | Rating ** | U | Issue No. | 121 (cont) |
| LM End | 5.60 | Issue Type + | Ma | Location * | WS |

Photo 3 of 4 : SP_2018_RD0544_108_121_20180323_00095.jpg



Looking northeast at excavation on waterward berm

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 5.60 | Rating ** | U | Issue No. | 121 (cont) |
| LM End | 5.60 | Issue Type + | Ma | Location * | WS |

Photo 4 of 4 : SP_2018_RD0544_108_121_20180323_00096.jpg



Looking southeast at excavation on waterward berm.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|--------------|
| LM Start | 5.64 | Rating ** | N | Issue No. | 40 |
| LM End | 5.64 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.811199° | 37.811199° |
| | | | | -121.322176° | -121.322176° |
| DWR ID | DWR_RD0544_01_s_2012_40 | | | | |
| Comment Code | | | | | |
| T5 : Tree stumps. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.72 | Rating ** | U | Issue No. | 115 |
| LM End | 5.72 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.811225 ° | 37.811225 ° |
| | | | | -121.323575 ° | -121.323575 ° |
| DWR ID | DWR_RD0544_01_s_2015_115 | | | | |
| Comment Code | | | | | |
| S2 : Repair the levee slope damaged by foot traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| Landowner excavated hole above pipe.Large hole left on landward shoulder and slope. Call LMA about repair. | | | | | |

Photo 1 of 3 : SP_2018_RD0544_108_115_20180323_00083.jpg



Looking west at large excavation on landward slope.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 5.72 | Rating ** | U | Issue No. | 115 (cont) |
| LM End | 5.72 | Issue Type + | Ma | Location * | LS |

Photo 2 of 3 : SP_2018_RD0544_108_115_20180323_00084.jpg



Looking south at large excavation on landward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.05 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|--|
| LM Start | 5.72 | Rating ** | U | Issue No. | 115 (cont) | |
| LM End | 5.72 | Issue Type + | Ma | Location * | LS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | End | |
| Item | Slope Stability | | | 37.811225 ° | 37.811225 ° | |
| | | | | -121.323575 ° | -121.323575 ° | |
| DWR ID | DWR_RD0544_01_s_2015_115 | | | | | |
| Comment Code | | | | | | |
| S2 : Repair the levee slope damaged by foot traffic and prevent access where possible. | | | | | | |
| Inspector Comment | | | | | | |
| Landowner excavated hole above pipe.Large hole left on landward shoulder and slope. Call LMA about repair. | | | | | | |

Photo 3 of 3 : SP_2018_RD0544_108_115_20180323_00085.jpg



Looking westly at large excavation on landward slope.

| | | | | | |
|-------------------|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 5.82 | Rating ** | A/W | Issue No. | 124 |
| LM End | 5.82 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.811049 ° | 37.811049 ° |
| | | | | -121.325451 ° | -121.325451 ° |
| DWR ID | DWR_RD0544_01_s_2016_124 | | | | |
| Comment Code | | | | | |
| TR : Tree or limb | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : SP_2018_RD0544_108_124_20180323_00100.jpg



Looking east at tree limbs on waterward slope.

| | | | | | |
|----------|-------------|--------------|-----|------------|-------------------|
| LM Start | 5.82 | Rating ** | A/W | Issue No. | 124 (cont) |
| LM End | 5.82 | Issue Type + | Ma | Location * | LS |

Photo 2 of 2 : SP_2018_RD0544_108_124_20180323_00101.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|---------------------------|--------------|------------------------|---------------|-----------|
| LM Start | 0.00 | Rating ** | M | Issue No. | 31 |
| LM End | 4.15 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Vegetation | | 37.808742 ° | 37.822553 ° | |
| | | | -121.328233 ° | -121.374670 ° | |
| DWR ID | DWR_RD0544_02_s _ 2018_31 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|---------------------------|--------------|------------------------|---------------|-----------|
| LM Start | 0.00 | Rating ** | M | Issue No. | 34 |
| LM End | 4.15 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Vegetation | | 37.808742 ° | 37.822553 ° | |
| | | | -121.328234 ° | -121.374670 ° | |
| DWR ID | DWR_RD0544_02_s _ 2018_34 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.21 | Rating ** | A/W | Issue No. | 37 |
| LM End | 0.23 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.808300 ° | 37.808400 ° |
| | | | | -121.332000 ° | -121.332200 ° |
| DWR ID | DWR_RD0544_02_f_2017_37 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:556 | | | | | |
| Site Designation:LMA-462 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/16/2017 | | | | | |
| Notes: | | | | | |

Photo 1 of 3 : LEVAL_SP_2018_556_4520.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 0.21 | Rating ** | A/W | Issue No. | 37 (cont) |
| LM End | 0.23 | Issue Type + | Ma | Location * | |

Photo 2 of 3 : LEVAL_SP_2018_556_4521.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.21 | Rating ** | A/W | Issue No. | 37 (cont) |
| LM End | 0.23 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.808300 ° | 37.808400 ° |
| | | | | -121.332000 ° | -121.332200 ° |
| DWR ID | DWR_RD0544_02_f_2017_37 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:556 | | | | | |
| Site Designation:LMA-462 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/16/2017 | | | | | |
| Notes: | | | | | |

Photo 3 of 3 : LEVAL_SP_2018_556_4522.jpg



| | | | | | |
|--|------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.21 | Rating ** | U | Issue No. | 2 |
| LM End | 0.26 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.808331 ° | 37.808576 ° |
| | | | | -121.331997 ° | -121.332672 ° |
| DWR ID | DWR_RD0544_02_s_2018_2 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2018_RD0544_109_2_20180427_00130.jpg



Looking southeast at dense veg on waterward slope. (Spring 2018)

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

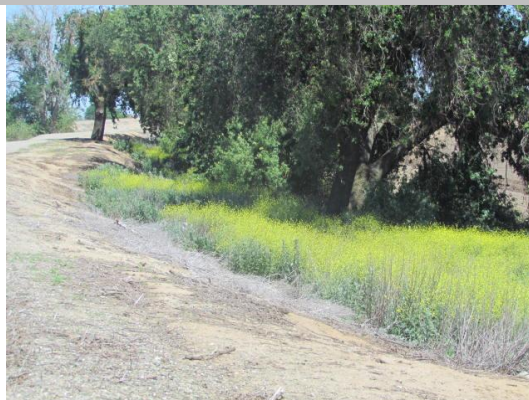
| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.40 | Rating ** | M | Issue No. | 4 |
| LM End | 0.40 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.809788 ° | 37.809788 ° |
| | | | | -121.334727 ° | -121.334727 ° |
| DWR ID | DWR_RD0544_02_s_2012_4 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.43 | Rating ** | M | Issue No. | 1 |
| LM End | 1.12 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.810250 ° | 37.819452 ° |
| | | | | -121.334933 ° | -121.333755 ° |
| DWR ID | DWR_RD0544_02_s_2012_1 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2018_RD0544_109_1_20180323_00001.jpg



Looking southwest at dense vegetation at landward toe.

| | | | | | |
|---------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.44 | Rating ** | U | Issue No. | 71 |
| LM End | 0.44 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.810388 ° | 37.810388 ° |
| | | | | -121.334977 ° | -121.334977 ° |
| DWR ID | DWR_RD0544_02_s_2017_71 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Landside erosion due to runoff. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_109_71_20180323_00060.jpg



Looking northwest at runoff erosion on landward shoulder and slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.44 | Rating ** | A/W | Issue No. | 70 |
| LM End | 0.46 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.810400 ° | 37.810700 ° |
| | | | | -121.335000 ° | -121.335000 ° |
| DWR ID | DWR_RD0544_02_f_2017_70 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:555 | | | | | |
| Site Designation:LMA-461 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/16/2017 | | | | | |
| Notes: | | | | | |

Photo 1 of 3 : LEVAL_SP_2018_555_4527.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 0.44 | Rating ** | A/W | Issue No. | 70 (cont) |
| LM End | 0.46 | Issue Type + | Ma | Location * | |

Photo 2 of 3 : LEVAL_SP_2018_555_4624.jpg



*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable
 M : Minimally Acceptable
 U : Unacceptable
 N : Not Inspected/Rated
 C : Corrected
 A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.57 | Rating ** | A/W | Issue No. | 80 (cont) |
| LM End | 0.58 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.812300 ° | 37.812400 ° |
| | | | | -121.335100 ° | -121.335100 ° |
| DWR ID | DWR_RD0544_02_f_2017_80 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:554 | | | | | |
| Site Designation:LMA-460 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/16/2017 | | | | | |
| Notes: | | | | | |

Photo 2 of 3 : LEVAL_SP_2018_554_4635.jpg



Photo 3 of 3 : LEVAL_SP_2018_554_4636.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.71 | Rating ** | M | Issue No. | 98 |
| LM End | 0.71 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.814267 ° | 37.814267 ° |
| | | | | -121.334627 ° | -121.334627 ° |
| DWR ID | DWR_RD0544_02_f_2017_98 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.72 | Rating ** | A/W | Issue No. | 5 |
| LM End | 0.72 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.814333 ° | 37.814333 ° |
| | | | | -121.334592 ° | -121.334592 ° |
| DWR ID | DWR_RD0544_02_s_2012_5 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.78 | Rating ** | U | Issue No. | 8 |
| LM End | 0.78 | Issue Type + | Ma | Location * | WS |
| Category | Interior Drainage & Piping Systems | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion Areas | | | 37.815094 ° | 37.815094 ° |
| | | | | -121.333927 ° | -121.333927 ° |
| DWR ID | DWR_RD0544_02_s_2012_8 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Caving under and around siphon on waterside shoulder. No material 3' below pipe. Caving around siphon is 20" to 24" deep approximately 72" in diameter. During 2012 spring inspection hole appears to be enlarging. | | | | | |

Photo 1 of 4 : SP_2018_RD0544_109_8_20180323_00010.jpg



Looking south at depression greater than 6" on waterside shoulder.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | | |
|---|------------------------------------|--------------|----|------------------------|----------|---------------|
| LM Start | 0.78 | Rating ** | U | Issue No. | 8 (cont) | |
| LM End | 0.78 | Issue Type + | Ma | Location * | WS | |
| Category | Interior Drainage & Piping Systems | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Erosion Areas | | | 37.815094 ° | | 37.815094 ° |
| | | | | -121.333927 ° | | -121.333927 ° |
| DWR ID | DWR_RD0544_02_s_2012_8 | | | | | |
| Comment Code | | | | | | |
| | | | | | | |
| Inspector Comment | | | | | | |
| Caving under and around siphon on waterside shoulder. No material 3' below pipe. Caving around siphon is 20" to 24" deep approximately 72" in diameter. During 2012 spring inspection hole appears to be enlarging. | | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|-----------------|
| LM Start | 0.78 | Rating ** | U | Issue No. | 8 (cont) |
| LM End | 0.78 | Issue Type + | Ma | Location * | WS |

Photo 2 of 4 : SP_2018_RD0544_109_8_20180323_00011.jpg



Looking east at caving around siphon on waterside shoulder. (Spring 2012)

Photo 3 of 4 : SP_2018_RD0544_109_8_20180323_00012.jpg



Looking west at caving around siphon on waterside shoulder. (Spring 2012)

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 1.01 | Rating ** | A/W | Issue No. | 82 (cont) |
| LM End | 1.02 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.818100 ° | 37.818200 ° |
| | | | | -121.332800 ° | -121.332800 ° |
| DWR ID | DWR_RD0544_02_f_2017_82 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:552 | | | | | |
| Site Designation:LMA-458 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/16/2017 | | | | | |
| Notes: | | | | | |

Photo 2 of 3 : LEVAL_SP_2018_552_4811.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 1.01 | Rating ** | A/W | Issue No. | 82 (cont) |
| LM End | 1.02 | Issue Type + | Ma | Location * | |

Photo 3 of 3 : LEVAL_SP_2018_552_4813.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.29 | Rating ** | U | Issue No. | 101 |
| LM End | 1.56 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.820668 ° | 37.822239 ° |
| | | | | -121.336491 ° | -121.340589 ° |
| DWR ID | DWR_RD0544_02_f_2017_101 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2018_RD0544_109_101_20180323_00098.jpg



Looking northwest at the waterside slope.

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.29 | Rating ** | U | Issue No. | 102 |
| LM End | 1.56 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.820668 ° | 37.822239 ° |
| | | | | -121.336491 ° | -121.340589 ° |
| DWR ID | DWR_RD0544_02_f_2017_102 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2018_RD0544_109_102_20180323_00099.jpg



Looking northwest at the landside slope.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.34 | Rating ** | M | Issue No. | 56 |
| LM End | 1.45 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.821168 ° | 37.822083 ° |
| | | | | -121.337212 ° | -121.338862 ° |
| DWR ID | DWR_RD0544_02_s_2015_56 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.38 | Rating ** | U | Issue No. | 10 |
| LM End | 1.38 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.821423 ° | 37.821423 ° |
| | | | | -121.337878 ° | -121.337878 ° |
| DWR ID | DWR_RD0544_02_s_2012_10 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| Dense elderberry on landside slope and toe. | | | | | |

Photo 1 of 2 : SP_2018_RD0544_109_10_20180323_00014.jpg



Looking southwest at elderberries on landside slope.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 1.38 | Rating ** | U | Issue No. | 10 (cont) |
| LM End | 1.38 | Issue Type + | Ma | Location * | LS |

Photo 2 of 2 : SP_2018_RD0544_109_10_20180323_00015.jpg



Looking south at elderberries on landside slope and toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.40 | Rating ** | M | Issue No. | 22 |
| LM End | 1.42 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.821518 ° | 37.821697 ° |
| | | | | -121.338092 ° | -121.338397 ° |
| DWR ID | DWR_RD0544_02_s_2012_22 | | | | |
| Comment Code | | | | | |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| Damage caused by vehicle traffic. | | | | | |

Photo 1 of 2 : SP_2018_RD0544_109_22_20180323_00025.jpg



Looking northwest at slope damage caused by vehicle traffic (Fall 2014).

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 1.40 | Rating ** | M | Issue No. | 22 (cont) |
| LM End | 1.42 | Issue Type + | Ma | Location * | LS |

Photo 2 of 2 : SP_2018_RD0544_109_22_20180323_00026.jpg



Looking northwest at slope damage caused by vehicle traffic.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.44 | Rating ** | M | Issue No. | 28 |
| LM End | 1.44 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.821954 ° | 37.821954 ° |
| | | | | -121.338715 ° | -121.338715 ° |
| DWR ID | DWR_RD0544_02_s_2012_28 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 1.46 | Rating ** | A/W | Issue No. | 23 |
| LM End | 1.46 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.822082 ° | 37.822082 ° |
| | | | | -121.338932 ° | -121.338932 ° |
| DWR ID | DWR_RD0544_02_s_2012_23 | | | | |
| Comment Code | | | | | |
| TR : Tree or limb | | | | | |
| Inspector Comment | | | | | |
| Dead tree and limbs should be removed from landside shoulder and slope. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_109_23_20180323_00027.jpg



Looking north at dead tree and tree limbs on landside shoulder and slope.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.86 | Rating ** | U | Issue No. | 38 |
| LM End | 1.86 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.817983 ° | 37.817983 ° |
| | | | | -121.341682 ° | -121.341682 ° |
| DWR ID | DWR_RD0544_02_s_2015_38 | | | | |
| Comment Code | | | | | |
| E1 : Note and monitor erosion site. | | | | | |
| Inspector Comment | | | | | |
| Erosion/Caving on waterside shoulder and slope 18" x 6" x 15'. | | | | | |

Photo 1 of 2 : SP_2018_RD0544_109_38_20180323_00036.jpg



Looking southeast at erosion/caving on waterward slope.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 1.86 | Rating ** | U | Issue No. | 38 (cont) |
| LM End | 1.86 | Issue Type + | Ma | Location * | WS |

Photo 2 of 2 : SP_2018_RD0544_109_38_20180323_00037.jpg



Looking east at erosion/caving on waterward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.02 | Rating ** | U | Issue No. | 58 |
| LM End | 2.09 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.818853 ° | 37.819493 ° |
| | | | | -121.343473 ° | -121.344545 ° |
| DWR ID | DWR_RD0544_02_s_2015_58 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| Several rodent holes within reach on landside slope. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_109_58_20180323_00046.jpg



Looking at typical rodent holes on landward slope.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.07 | Rating ** | U | Issue No. | 13 |
| LM End | 2.09 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.819337 ° | 37.819460 ° |
| | | | | -121.344275 ° | -121.344492 ° |
| DWR ID | DWR_RD0544_02_s_2012_13 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 2.12 | Rating ** | A/W | Issue No. | 59 |
| LM End | 2.12 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.819738 ° | 37.819738 ° |
| | | | | -121.344922 ° | -121.344922 ° |
| DWR ID | DWR_RD0544_02_s_2015_59 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| Untrimmed trees on landside shoulder and slope. | | | | | |

Photo 1 of 2 : SP_2018_RD0544_109_59_20180323_00047.jpg



Looking northwest at the landside slope.

| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 2.12 | Rating ** | A/W | Issue No. | 59 (cont) |
| LM End | 2.12 | Issue Type + | Ma | Location * | LS |

Photo 2 of 2 : SP_2018_RD0544_109_59_20180323_00048.jpg



Looking southwest at untrimmed trees on landward slope and toe fall 2015.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

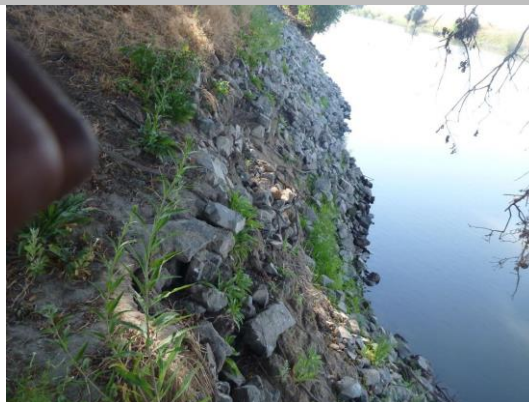
| | | | | | | | | | | | | |
|--|-------------------------|--------------|------------------------|---------------|-----------|--|--|--|--|--|--|--|
| LM Start | 2.17 | Rating ** | A/W | Issue No. | 87 | | | | | | | |
| LM End | 2.18 | Issue Type + | Ma | Location * | | | | | | | | |
| Category | Supplemental | | GPS Latitude/Longitude | | | | | | | | | |
| | | | Start | End | | | | | | | | |
| Item | 2017 Storm Damage | | 37.820300 ° | 37.820300 ° | | | | | | | | |
| | | | -121.345600 ° | -121.345700 ° | | | | | | | | |
| DWR ID | DWR_RD0544_02_f_2017_87 | | | | | | | | | | | |
| Comment Code | | | | | | | | | | | | |
| Inspector Comment | | | | | | | | | | | | |
| Levee Evaluation Comments Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. Site ID No: 551 Site Designation: LMA-457 Repair Type: Erosion Rating: Serious Field Date: 8/18/2017 Notes: | | | | | | | | | | | | |

Photo 1 of 3 : LEVAL_SP_2018_551_4817.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 2.17 | Rating ** | A/W | Issue No. | 87 (cont) |
| LM End | 2.18 | Issue Type + | Ma | Location * | |

Photo 2 of 3 : LEVAL_SP_2018_551_4818.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|-------------------------|--------------|-----|------------------------|------------------|
| LM Start | 2.18 | Rating ** | A/W | Issue No. | 88 (cont) |
| LM End | 2.19 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.820400 ° | 37.820500 ° |
| | | | | -121.345800 ° | -121.345900 ° |
| DWR ID | DWR_RD0544_02_f_2017_88 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| <p>Levee Evaluation Comments</p> <p>Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.</p> <p>Site ID No: 550</p> <p>Site Designation: LMA-456</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 8/18/2017</p> <p>Notes:</p> | | | | | |

Photo 4 of 4 : LEVAL_SP_2018_550_4575.jpg



| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 2.20 | Rating ** | A/W | Issue No. | 60 |
| LM End | 2.20 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.820655 ° | 37.820655 ° |
| | | | | -121.345982 ° | -121.345982 ° |
| DWR ID | DWR_RD0544_02_s_2015_60 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.21 | Rating ** | C | Issue No. | 50 |
| LM End | 2.21 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.820646 ° | 37.820646 ° |
| | | | | -121.346014 ° | -121.346014 ° |
| DWR ID | DWR_RD0544_02_f_2014_50 | | | | |
| Comment Code | | | | | |
| GA : Garbage | | | | | |
| Inspector Comment | | | | | |
| Discarded intake pipe on waterside slope. | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.21 | Rating ** | M | Issue No. | 32 |
| LM End | 2.21 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.820697 ° | 37.820697 ° |
| | | | | -121.346050 ° | -121.346050 ° |
| DWR ID | DWR_RD0544_02_s_2012_32 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.24 | Rating ** | M | Issue No. | 33 |
| LM End | 2.35 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.821096 ° | 37.821945 ° |
| | | | | -121.346418 ° | -121.347897 ° |
| DWR ID | DWR_RD0544_02_s_2012_33 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

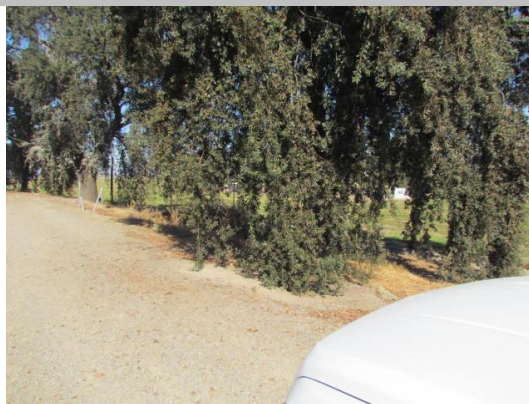
Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 2.28 | Rating ** | A/W | Issue No. | 61 |
| LM End | 2.28 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.821473 ° | 37.821473 ° |
| | | | | -121.346860 ° | -121.346860 ° |
| DWR ID | DWR_RD0544_02_s_2015_61 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| Untrimmed tree on landside shoulder. Tree was trimmed but still requires additional trimming. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_109_61_20180323_00049.jpg



Looking west at untrimmed trees on landward slope fall 2015.

| | | | | | |
|--|--------------------|--------------|----|------------------------|---------------|
| LM Start | 2.31 | Rating ** | M | Issue No. | 11 |
| LM End | 2.31 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.821763 ° | 37.821763 ° |
| | | | | -121.347275 ° | -121.347275 ° |
| DWR ID | RD0544U02RM33.21 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| 09/13/2017: No significant change observed. 07/25/2016: No significant change observed. 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/20/2013: No significant change observed. 08/07/2012: The site was first reported in 2012 spring levee inspection report. The data were estimated as the site is underneath a irrigation pump station and inaccessible by boat or land survey. It's possible the pump station played a role in the erosion. [2017 Site ID:RD0544U02RM33.21] | | | | | |

Photo 1 of 3 : SP_2018_RD0544_109_11_20180323_00016.jpg



Front view of the erosion site. View is partially blocked by the pump structure and vegetation at the site.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|--------------------|--------------|----|------------------------|---------------|
| LM Start | 2.31 | Rating ** | M | Issue No. | 11 (cont) |
| LM End | 2.31 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.821763 ° | 37.821763 ° |
| | | | | -121.347275 ° | -121.347275 ° |
| DWR ID | RD0544U02RM33.21 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| 09/13/2017: No significant change observed. 07/25/2016: No significant change observed. 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/20/2013: No significant change observed. 08/07/2012: The site was first reported in 2012 spring levee inspection report. The data were estimated as the site is underneath a irrigation pump station and inaccessible by boat or land survey. It's possible the pump station played a role in the erosion. [2017 Site ID:RD0544U02RM33.21] | | | | | |

Photo 2 of 3 : SP_2018_RD0544_109_11_20180323_00017.jpg



Front view of the site.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.31 | Rating ** | M | Issue No. | 11 (cont) |
| LM End | 2.31 | Issue Type + | Ma | Location * | WS |

Photo 3 of 3 : SP_2018_RD0544_109_11_20180323_00018.jpg



Close view of the site.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 2.32 | Rating ** | A/W | Issue No. | 89 |
| LM End | 2.33 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.821800 ° | 37.821900 ° |
| | | | | -121.347500 ° | -121.347600 ° |
| DWR ID | DWR_RD0544_02_f_2017_89 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:549 | | | | | |
| Site Designation:LMA-455 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/18/2017 | | | | | |
| Notes: | | | | | |

Photo 1 of 3 : LEVAL_SP_2018_549_4588.jpg



Photo 2 of 3 : LEVAL_SP_2018_549_4590.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 2.32 | Rating ** | A/W | Issue No. | 89 (cont) |
| LM End | 2.33 | Issue Type + | Ma | Location * | |

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 2.32 | Rating ** | A/W | Issue No. | 89 (cont) |
| LM End | 2.33 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.821800 ° | 37.821900 ° |
| | | | | -121.347500 ° | -121.347600 ° |
| DWR ID | DWR_RD0544_02_f_2017_89 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:549 | | | | | |
| Site Designation:LMA-455 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/18/2017 | | | | | |
| Notes: | | | | | |

Photo 3 of 3 : LEVAL_SP_2018_549_4654.jpg



| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.48 | Rating ** | U | Issue No. | 73 |
| LM End | 2.59 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.820477 ° | 37.819153 ° |
| | | | | -121.349345 ° | -121.350231 ° |
| DWR ID | DWR_RD0544_02_f_2017_73 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2018_RD0544_109_73_20180323_00061.jpg



Looking southwest at the landside slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|-------------------------------------|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 2.57 | Rating ** | A/W | Issue No. | 75 |
| LM End | 2.57 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.819373 ° | 37.819373 ° |
| | | | | -121.350077 ° | -121.350077 ° |
| DWR ID | DWR_RD0544_02_s_2017_75 | | | | |
| Comment Code | | | | | |
| TR : Tree or limb | | | | | |
| Inspector Comment | | | | | |
| Dead tree limbs on waterside slope. | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.61 | Rating ** | U | Issue No. | 69 |
| LM End | 2.61 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.818806 ° | 37.818806 ° |
| | | | | -121.350437 ° | -121.350437 ° |
| DWR ID | DWR_RD0544_02_f_2016_69 | | | | |
| Comment Code | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | |
| Inspector Comment | | | | | |
| Erosion greater than 1' deep and greater than 3' wide. Owner backfilled erosion with rock 3/4 filled. Still need to backfill the remaining erosion. | | | | | |

Photo 1 of 5 : SP_2018_RD0544_109_69_20180427_00132.jpg



Looking south at erosion on shoulder. (Spring 2018)

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.61 | Rating ** | U | Issue No. | 69 (cont) |
| LM End | 2.61 | Issue Type + | Ma | Location * | WS |

Photo 2 of 5 : SP_2018_RD0544_109_69_20180427_00133.jpg



Looking east at erosion on waterward slope. (Spring 2018)

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|--|
| LM Start | 2.61 | Rating ** | U | Issue No. | 69 (cont) | |
| LM End | 2.61 | Issue Type + | Ma | Location * | WS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | End | |
| Item | Erosion / Bank Caving | | | 37.818806 ° | 37.818806 ° | |
| | | | | -121.350437 ° | -121.350437 ° | |
| DWR ID | DWR_RD0544_02_f _ 2016_69 | | | | | |
| Comment Code | | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | | |
| Inspector Comment | | | | | | |
| Erosion greater than 1' deep and greater than 3' wide. Owner backfilled erosion with rock 3/4 filled. Still need to backfill the remaining erosion. | | | | | | |

Photo 3 of 5 : SP_2018_RD0544_109_69_20180323_00054.jpg



Looking south at erosion on waterward shoulder and slope.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.61 | Rating ** | U | Issue No. | 69 (cont) |
| LM End | 2.61 | Issue Type + | Ma | Location * | WS |

Photo 4 of 5 : SP_2018_RD0544_109_69_20180323_00056.jpg



Looking south at waterward erosion.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.61 | Rating ** | U | Issue No. | 69 (cont) |
| LM End | 2.61 | Issue Type + | Ma | Location * | WS |

Photo 5 of 5 : SP_2018_RD0544_109_69_20180323_00055.jpg



Looking north at erosion on waterward shoulder and slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.67 | Rating ** | M | Issue No. | 76 |
| LM End | 2.67 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.818112 ° | 37.818112 ° |
| | | | | -121.351108 ° | -121.351108 ° |
| DWR ID | DWR_RD0544_02_s_2017_76 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|--------------------|--------------|----|------------------------|---------------|
| LM Start | 2.68 | Rating ** | M | Issue No. | 7 |
| LM End | 2.70 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.817905 ° | 37.817905 ° |
| | | | | -121.351102 ° | -121.351102 ° |
| DWR ID | RD0544U02RM32.91 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| 09/13/2017: No significant change observed. | | | | | |
| 07/25/2016: No significant change observed. | | | | | |
| 06/25/2015: No significant change observed. | | | | | |
| 07/02/2014: No significant change observed. | | | | | |
| 10/11/2013: No significant change observed. | | | | | |
| 08/07/2012: Series of pocket erosion were discovered at the levee toe during the boat survey. The area is covered with vegetation and riprap, but the rip rap has been washed away. [2017 Site ID:RD0544U02RM32.91] | | | | | |

Photo 1 of 2 : SP_2018_RD0544_109_7_20180323_00006.jpg




Front view of the pocket erosion. Note vegetation and riprap at the site.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

Photo 2 of 2 : SP_2018_RD0544_109_7_20180323_00007.jpg



Front view of the pocket erosion.

The photograph shows a riverbank with a rocky, eroded shoreline. The bank is covered with tall, dry grass and several large, leafy trees. The water is calm and reflects the sky. The sky is clear and blue.

Photo 1 of 3 : LEVAL_SP_2018_548_4661.jpg

A photograph showing a gravel path on the right side of the frame, leading towards a white car parked under a large tree. The path is bordered by tall, dry grass and some green weeds. To the left of the path is a calm river or stream, with a grassy bank and some trees in the background. The sky is clear and blue.

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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 2.68 | Rating ** | A/W | Issue No. | 90 (cont) |
| LM End | 2.71 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.818000 ° | 37.817800 ° |
| | | | | -121.351200 ° | -121.351500 ° |
| DWR ID | DWR_RD0544_02_f_2017_90 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:548 | | | | | |
| Site Designation:LMA-454 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/18/2017 | | | | | |
| Notes: | | | | | |

Photo 2 of 3 : LEVAL_SP_2018_548_4666.jpg



Photo 3 of 3 : LEVAL_SP_2018_548_4669.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 2.68 | Rating ** | A/W | Issue No. | 90 (cont) |
| LM End | 2.71 | Issue Type + | Ma | Location * | |

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.69 | Rating ** | U | Issue No. | 52 |
| LM End | 3.11 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.817928 ° | 37.817698 ° |
| | | | | -121.351355 ° | -121.358582 ° |
| DWR ID | DWR_RD0544_02_f _ 2014_52 | | | | |
| Comment Code | | | | | |
| V9 : Keep the crown roadway free of vegetation. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 3 : SP_2018_RD0544_109_52_20180427_00131.jpg



Looking south at veg on levee crown. (Spring 2018)

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.69 | Rating ** | U | Issue No. | 52 (cont) |
| LM End | 3.11 | Issue Type + | Ma | Location * | CR |

Photo 2 of 3 : SP_2018_RD0544_109_52_20180323_00043.jpg



Looking south at vegetation on levee crown.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.69 | Rating ** | U | Issue No. | 52 (cont) |
| LM End | 3.11 | Issue Type + | Ma | Location * | CR |

Photo 3 of 3 : SP_2018_RD0544_109_52_20180323_00042.jpg



Looking southwest at levee crown.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.71 | Rating ** | U | Issue No. | 43 |
| LM End | 3.45 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.817747 ° | 37.819583 ° |
| | | | | -121.351578 ° | -121.363559 ° |
| DWR ID | DWR_RD0544_02_s_2012_43 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : SP_2018_RD0544_109_43_20180323_00039.jpg



Looking southwest and levee.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.71 | Rating ** | U | Issue No. | 43 (cont) |
| LM End | 3.45 | Issue Type + | Ma | Location * | LS |

Photo 2 of 2 : SP_2018_RD0544_109_43_20180323_00040.jpg



Looking at dense vegetation on landward and waterward slope.

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

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 2.76 | Rating ** | A/W | Issue No. | 91 (cont) |
| LM End | 2.77 | Issue Type + | Ma | Location * | |

A photograph showing a vineyard with rows of grapevines. In the foreground, there is a path or area covered with tall, dry, golden-brown grass. The vineyard rows extend into the distance under a clear blue sky. A few trees are visible in the background.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

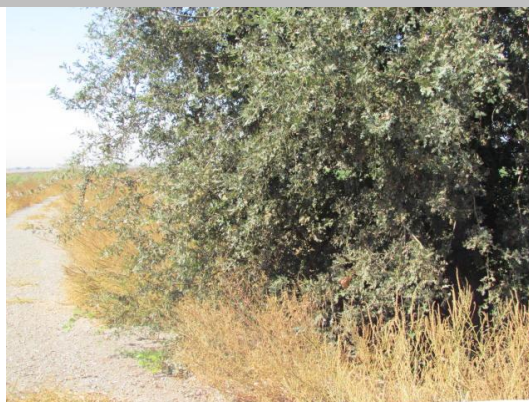
| | | | | | | |
|---|---------------------------|--------------|-----|------------------------|---------------|--|
| LM Start | 2.76 | Rating ** | A/W | Issue No. | 91 (cont) | |
| LM End | 2.77 | Issue Type + | Ma | Location * | | |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| | | | | Start | End | |
| Item | 2017 Storm Damage | | | 37.817400 ° | 37.817300 ° | |
| | | | | -121.352300 ° | -121.352500 ° | |
| DWR ID | DWR_RD0544_02_f _ 2017_91 | | | | | |
| Comment Code | | | | | | |
| | | | | | | |
| Inspector Comment | | | | | | |
| Levee Evaluation Comments | | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | | |
| Site ID No:547 | | | | | | |
| Site Designation:LMA-453 | | | | | | |
| Repair Type: Erosion | | | | | | |
| Rating:Area of Concern | | | | | | |
| Field Date:8/18/2017 | | | | | | |
| Notes: levee slopes covered in dense vegetations that hindered visibility. | | | | | | |

Photo 3 of 3 : LEVAL_SP_2018_547_4688.jpg



| | | | | | |
|--|-------------------------|--------------|-----|------------------------|--------------|
| LM Start | 2.80 | Rating ** | A/W | Issue No. | 53 |
| LM End | 2.80 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.817187° | 37.817187° |
| | | | | -121.352964° | -121.352964° |
| DWR ID | DWR_RD0544_02_f_2014_53 | | | | |
| Comment Code | | | | | |
| T2 : Thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2018_RD0544_109_53_20180323_00044.jpg



Looking southwest at untrimmed tree on landward slope fall 2015.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.10 | Rating ** | U | Issue No. | 77 |
| LM End | 3.10 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.817588 ° | 37.817588 ° |
| | | | | -121.358352 ° | -121.358352 ° |
| DWR ID | DWR_RD0544_02_s_2017_77 | | | | |
| Comment Code | | | | | |
| E1 : Note and monitor erosion site. | | | | | |
| Inspector Comment | | | | | |
| Rip rap was placed but does not meet Title 23 standards. | | | | | |

Photo 1 of 1 : SP_2018_RD0544_109_77_20180323_00062.jpg



Looking northeast at concrete rubble on waterward slope.

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 3.11 | Rating ** | A/W | Issue No. | 92 |
| LM End | 3.12 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.817700 ° | 37.817800 ° |
| | | | | -121.358600 ° | -121.358700 ° |
| DWR ID | DWR_RD0544_02_f_2017_92 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:546 | | | | | |
| Site Designation:LMA-452 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/18/2017 | | | | | |
| Notes: dense vegetations on both sides of the levee made the slopes inaccessible | | | | | |

Photo 1 of 3 : LEVAL_SP_2018_546_4693.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|---------------|------------------------|-----------|
| LM Start | 3.11 | Rating ** | A/W | Issue No. | 92 (cont) |
| LM End | 3.12 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | 37.817700 ° | 37.817800 ° | |
| | | | -121.358600 ° | -121.358700 ° | |
| DWR ID | DWR_RD0544_02_f_2017_92 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:546 | | | | | |
| Site Designation:LMA-452 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/18/2017 | | | | | |
| Notes: dense vegetations on both sides of the levee made the slopes inaccessible | | | | | |

Photo 2 of 3 : LEVAL_SP_2018_546_4695.jpg



| | | | | | |
|----------|------|--------------|-----|------------|-----------|
| LM Start | 3.11 | Rating ** | A/W | Issue No. | 92 (cont) |
| LM End | 3.12 | Issue Type + | Ma | Location * | |

Photo 3 of 3 : LEVAL_SP_2018_546_4698.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.20 | Rating ** | M | Issue No. | 30 |
| LM End | 3.40 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.818748 ° | 37.819717 ° |
| | | | | -121.359440 ° | -121.362733 ° |
| DWR ID | DWR_RD0544_02_s _ 2013_30 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|---------------------------|--------------|-----|------------------------|---------------|
| LM Start | 3.22 | Rating ** | A/W | Issue No. | 62 |
| LM End | 3.22 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.818985 ° | 37.818985 ° |
| | | | | -121.359675 ° | -121.359675 ° |
| DWR ID | DWR_RD0544_02_s _ 2015_62 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 3.25 | Rating ** | A/W | Issue No. | 93 |
| LM End | 3.34 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.819300 ° | 37.819800 ° |
| | | | | -121.360200 ° | -121.361600 ° |
| DWR ID | DWR_RD0544_02_f_2017_93 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:545 | | | | | |
| Site Designation:LMA-451 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/18/2017 | | | | | |
| Notes: | | | | | |

Photo 1 of 3 : LEVAL_SP_2018_545_4707.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 3.25 | Rating ** | A/W | Issue No. | 93 (cont) |
| LM End | 3.34 | Issue Type + | Ma | Location * | |

Photo 2 of 3 : LEVAL_SP_2018_545_4712.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|-------------------------|--------------|-----|------------------------|------------------|
| LM Start | 3.25 | Rating ** | A/W | Issue No. | 93 (cont) |
| LM End | 3.34 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.819300 ° | 37.819800 ° |
| | | | | -121.360200 ° | -121.361600 ° |
| DWR ID | DWR_RD0544_02_f_2017_93 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| <p>Levee Evaluation Comments</p> <p>Description: Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage.</p> <p>Site ID No: 545</p> <p>Site Designation: LMA-451</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 8/18/2017</p> <p>Notes:</p> | | | | | |

Photo 3 of 3 : LEVAL_SP_2018_545_4774.jpg



| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.29 | Rating ** | M | Issue No. | 54 |
| LM End | 3.29 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.819635 ° | 37.819635 ° |
| | | | | -121.360619 ° | -121.360619 ° |
| DWR ID | DWR_RD0544_02_f_2014_54 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|--|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 3.48 | Rating ** | A/W | Issue No. | 36 |
| LM End | 3.51 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.819576 ° | 37.819530 ° |
| | | | | -121.364056 ° | -121.364653 ° |
| DWR ID | DWR_RD0544_02_s_2012_36 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| Cactus on landside slope. | | | | | |

| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 3.48 | Rating ** | A/W | Issue No. | 36 (cont) |
| LM End | 3.51 | Issue Type + | Ma | Location * | LS |

Photo 1 of 3 : SP_2018_RD0544_109_36_20180323_00030.jpg



Looking northwest at cactus on landward slope and toe fall 2015

Photo 2 of 3 : SP_2018_RD0544_109_36_20180323_00031.jpg



Looking north at cactus on landside slope and toe spring 2015

| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 3.48 | Rating ** | A/W | Issue No. | 36 (cont) |
| LM End | 3.51 | Issue Type + | Ma | Location * | LS |

Photo 3 of 3 : SP_2018_RD0544_109_36_20180323_00032.jpg



Looking southwest at overgrown cactus on landside slope spring 2015.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|---------------|------------------------|-----------|
| LM Start | 3.51 | Rating ** | A/W | Issue No. | 94 (cont) |
| LM End | 3.55 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | 37.819500 ° | 37.819400 ° | |
| | | | -121.364700 ° | -121.365400 ° | |
| DWR ID | DWR_RD0544_02_f_2017_94 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:544 | | | | | |
| Site Designation:LMA-450 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/18/2017 | | | | | |
| Notes: | | | | | |

Photo 2 of 3 : LEVAL_SP_2018_544_4782.jpg



Photo 3 of 3 : LEVAL_SP_2018_544_4783.jpg



| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 3.51 | Rating ** | A/W | Issue No. | 94 (cont) |
| LM End | 3.55 | Issue Type + | Ma | Location * | |

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.57 | Rating ** | M | Issue No. | 19 |
| LM End | 3.57 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.819400 ° | 37.819400 ° |
| | | | | -121.365762 ° | -121.365762 ° |
| DWR ID | DWR_RD0544_02_f_2013_19 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|---------------------------|--------------|-----|------------------------|---------------|
| LM Start | 3.57 | Rating ** | A/W | Issue No. | 95 |
| LM End | 3.58 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.819400 ° | 37.819400 ° |
| | | | | -121.365800 ° | -121.365900 ° |
| DWR ID | DWR_RD0544_02_f _ 2017_95 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:543 | | | | | |
| Site Designation:LMA-449 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/18/2017 | | | | | |
| Notes: | | | | | |

Photo 1 of 3 : LEVAL_SP_2018_543_4790.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 3.57 | Rating ** | A/W | Issue No. | 95 (cont) |
| LM End | 3.58 | Issue Type + | Ma | Location * | |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2017 Storm Damage | | | 37.819400 ° | 37.819400 ° |
| | | | | -121.365800 ° | -121.365900 ° |
| DWR ID | DWR_RD0544_02_f_2017_95 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Levee Evaluation Comments | | | | | |
| Description:Slope protection repairs are needed along the waterside slope due to erosion and riprap displacement from high water. Based upon levee inspections, it was determined the waterside levee slope is eroding, deteriorating, and degrading. The eroded levee sections need to be restored back to design standards to prevent further deterioration and damage. | | | | | |
| Site ID No:543 | | | | | |
| Site Designation:LMA-449 | | | | | |
| Repair Type: Erosion | | | | | |
| Rating:Area of Concern | | | | | |
| Field Date:8/18/2017 | | | | | |
| Notes: | | | | | |

Photo 2 of 3 : LEVAL_SP_2018_543_4797.jpg



Photo 3 of 3 : LEVAL_SP_2018_543_4799.jpg



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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0544 Upper Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-----------------------|-------|------------|--------------------------|--------------------|
| Unit No. 02 Old River | Right | 4.15 | 04/26/2018 04/26/2018 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.58 | Rating ** | M | Issue No. | 67 |
| LM End | 3.58 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.819419 ° | 37.819419 ° |
| | | | | -121.365854 ° | -121.365854 ° |
| DWR ID | DWR_RD0544_02_f_2015_67 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| Large rodent holes on landward slope. | | | | | |

Photo 1 of 2 : SP_2018_RD0544_109_67_20180323_00051.jpg



Looking northeast at typical view of rodent holes on landward slope.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 3.58 | Rating ** | M | Issue No. | 67 (cont) |
| LM End | 3.58 | Issue Type + | Ma | Location * | LS |

Photo 2 of 2 : SP_2018_RD0544_109_67_20180323_00052.jpg



Looking north at typical view of rodent holes on landward slope.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.05 | Rating ** | U | Issue No. | 64 |
| LM End | 4.05 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.821620 ° | 37.821620 ° |
| | | | | -121.373283 ° | -121.373283 ° |
| DWR ID | DWR_RD0544_02_s_2015_64 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

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