Flood Control Project Maintenance
Levee Inspections

Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD0017	Overall LMA Rating	Total LMA Miles	* *Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.*
Reclamation District No. 0017 Mossdale	**M ***	**16.03**	

Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee								
Vegetation	0.04		0.04	0.25%				
Animal Control		0.01	0.04	0.25%				
Supplemental								
DWR Erosion Survey	0.01	0.01	0.05	0.31%				
DWR UCIP Field Study					0.64	0.05		
LMA Totals:	0.05	0.02	0.13	0.81% *	0.64	0.05	0.00	0.00

Unit No. 01 French Camp Slough LB	Overall Unit Rating	Total Unit Miles
RD0017	**A**	**1.76**

Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Supplemental								
DWR UCIP Field Study					0.04	0.01		
Unit Totals:	0.00	0.00	0.00	0.00%	0.04	0.01	0.00	0.00

Unit No. 02 San Joaquin River RB	Overall Unit Rating	Total Unit Miles	* *Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.*
RD0017	**M ***	**14.27**	

Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee								
Vegetation	0.04		0.04	0.28%				
Animal Control		0.01	0.04	0.28%				
Supplemental								
DWR Erosion Survey	0.01	0.01	0.05	0.35%				
DWR UCIP Field Study					0.60	0.04		
Unit Totals:	0.05	0.02	0.13	0.91% *	0.60	0.04	0.00	0.00

Flood Control Project Maintenance
Levee Inspections

LMA District Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 0017 Mossdale

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

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

* *Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.*

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

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

Comments

Flood Control Project Maintenance
Levee Inspections

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles
Unit No. 01 French Camp Slough	Left	1.76

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			**A**	
Date of Inspection	4/5/2016 - 4/5/2016		10/4/2016 - 10/4/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Robert Winter KSN		Robert Winter KSN	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:
a) completion of the inspection
b) any changes other than the results of normal maintenance
c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**0.00**	Rating **	A	Issue No.	**1**
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_RD0017_01_s _ 2013_1				

Comment Code

Inspector Comment

LMA has a copy of the manual on file.

No Photos

LM Start	**0.00**	Rating **	A	Issue No.	**2**
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_RD0017_01_s _ 2013_2				

Comment Code

Inspector Comment

LMA has adequate flood fight supplies.

No Photos

LM Start	**0.00**	Rating **	A	Issue No.	**3**
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_RD0017_01_s _ 2013_3				

Comment Code

Inspector Comment

District staff are involved in yearly training sponsored by DWR.

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**0.00**	Rating **	A	Issue No.	**6**
LM End	**1.76**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.911248 °	37.915962 °
				-121.291064 °	-121.320708 °
DWR ID	DWR_RD0017_01_s _ 2013_6				

Comment Code

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

Inspector Comment

Photo 1 of 1 : FA_2016_RD0017_303_6_20161006_00016.jpg

Looking south typical view of waterward slope.

LM Start	**0.00**	Rating **	A	Issue No.	**10**
LM End	**1.76**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.911248 °	37.915962 °
				-121.291064 °	-121.320708 °
DWR ID	DWR_RD0017_01_f _ 2016_10				

Comment Code

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

Inspector Comment

Photo 1 of 1 : FA_2016_RD0017_303_10_20161006_00017.jpg

Looking south at typical view of landward slope.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**0.03**	Rating **	M	Issue No.	**13**
LM End	**0.03**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.911561 °	37.911561 °
				-121.291441 °	-121.291441 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40603
DS_ID:1
EP_NO: 6623
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Marker missing on landward side. Need to contact owner to determine status of crossing. Need date of last inspection and confirmation that crossing is still in operable condition.
FIELD_STRUCT_DESC: 5-inch diameter welded steel natural gas pipeline through the levees, 4.5 feet below the crown, across the channels and overflow area. (Permit No. 6623-1969)
FS Date: 2/3/2010

Photo 1 of 2 : UCIP_FA_2016_40603_38480.jpg

View of waterward side.

LM Start	**0.03**	Rating **	M	Issue No.	**13 (cont)**
LM End	**0.03**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_40603_38479.jpg

View of levee crown at crossing. Marker for line visible on waterward shoulder.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**0.15**	Rating **	U	Issue No.	**17**
LM End	**0.15**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.912850 °	37.912850 °
				-121.292910 °	-121.292910 °
DWR ID					

Comment Code

Inspector Comment

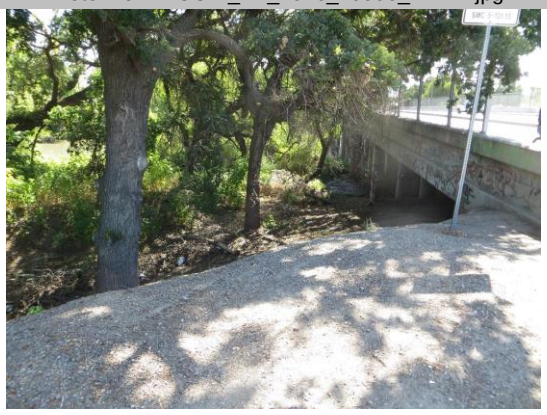
FS_ID:49990
DS_ID:72
EP_NO: 15185
Repair Type: Urgent
Crossing Status: Indicator Found
UCIP Comments: 7/12/2016 No markers (no photos taken in 2016). Need to contact owner to determine status of crossing. If crossing is active, owner will need to coordinate with CVFPB to install markers to comply with Title 23. (DWR UCIP - omagana)5/19/2015 Need to install gasline markers. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 8-inch soil proofed steel gas main through the left bank levee and under the channel of French Camp Slough. The pipeline has a minimum cover of 20 to 25 feet within the overflow areas and under the channel. (Permit No. 15185, 1989 - Pacific Gas & Electric Company [PG&E])
FS Date: 7/12/2016

Photo 1 of 2 : UCIP_FA_2016_49990_74222.jpg

Gas access lid in sidewalk Approximately 200-feet to west of crown.

LM Start	**0.15**	Rating **	U	Issue No.	**17 (cont)**
LM End	**0.15**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_49990_74221.jpg



WS Slope. No gasline markers.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**0.38**	Rating **	C	Issue No.	**12**
LM End	**0.38**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.913158 °	37.913158 °
				-121.296868 °	-121.296868 °
DWR ID	DWR_RD0017_01_s _ 2016_12				

Comment Code

T2 : Thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

No Photos

LM Start	**1.31**	Rating **	M	Issue No.	**14**
LM End	**1.31**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.915928 °	37.915928 °
				-121.312471 °	-121.312471 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40604
DS_ID:2
EP_NO: 14992
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Need to contact owner to determine status of crossing. Also need date of last inspection.
FIELD_STRUCT_DESC: 1 of 3. 30-inch diameter HDPE sewer force main (SFM). All pipes encased in concrete at approximately 32 feet below levee crown. (Permit No. 14992-1989)
FS Date: 2/3/2010

Photo 1 of 2 : UCIP_FA_2016_40604_38491.jpg

Overview of levee crown at crossing.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**1.31**	Rating **	M	Issue No.	**14 (cont)**
LM End	**1.31**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.915928 °	37.915928 °
				-121.312471 °	-121.312471 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40604
DS_ID:2
EP_NO: 14992
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Need to contact owner to determine status of crossing. Also need date of last inspection.
FIELD_STRUCT_DESC: 1 of 3. 30-inch diameter HDPE sewer force main (SFM). All pipes encased in concrete at approximately 32 feet below levee crown. (Permit No. 14992-1989)
FS Date: 2/3/2010

Photo 2 of 2 : UCIP_FA_2016_40604_38489.jpg

View of landward side.

LM Start	**1.31**	Rating **	M	Issue No.	**15**
LM End	**1.31**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.915928 °	37.915928 °
				-121.312471 °	-121.312471 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40605
DS_ID:159
EP_NO: 14992
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Need to contact owner to determine status of crossing. Also need date of last inspection.
FIELD_STRUCT_DESC: 2 of 3. A 30-inch diameter HDPE sewer force main (SFM). All pipes encased in concrete at approximately 32 feet below levee crown. (Permit No. 14992-1989)
FS Date: 2/3/2010

Photo 1 of 2 : UCIP_FA_2016_40605_38505.jpg

Overview of levee at crossing.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**1.31**	Rating **	M	Issue No.	**15 (cont)**
LM End	**1.31**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.915928 °	37.915928 °
				-121.312471 °	-121.312471 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40605
DS_ID:159
EP_NO: 14992
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Need to contact owner to determine status of crossing. Also need date of last inspection.
FIELD_STRUCT_DESC: 2 of 3. A 30-inch diameter HDPE sewer force main (SFM). All pipes encased in concrete at approximately 32 feet below levee crown. (Permit No. 14992-1989)
FS Date: 2/3/2010

Photo 2 of 2 : UCIP_FA_2016_40605_38503.jpg

View of landward toe--established neighborhood.

LM Start	**1.31**	Rating **	M	Issue No.	**16**
LM End	**1.31**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.915928 °	37.915928 °
				-121.312471 °	-121.312471 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40606
DS_ID:158
EP_NO: 14992
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Need to contact owner to determine status of crossing. Also need date of last inspection.
FIELD_STRUCT_DESC: 3 of 3. A 12-inch diameter HDPE sewer force main (SFM). All pipes encased in concrete at approximately 32 feet below levee crown. (Permit No. 14992-1989)
FS Date: 2/3/2010

Photo 1 of 2 : UCIP_FA_2016_40606_71942.jpg

View of levee crown at crossing.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**1.31**	Rating **	M	Issue No.	**16 (cont)**
LM End	**1.31**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.915928 °	37.915928 °
				-121.312471 °	-121.312471 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40606
DS_ID:158
EP_NO: 14992
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Need to contact owner to determine status of crossing. Also need date of last inspection.
FIELD_STRUCT_DESC: 3 of 3. A 12-inch diameter HDPE sewer force main (SFM). All pipes encased in concrete at approximately 32 feet below levee crown. (Permit No. 14992-1989)
FS Date: 2/3/2010

Photo 2 of 2 : UCIP_FA_2016_40606_71941.jpg

View of landward side.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles
Unit No. 02 San Joaquin River	Right	14.27

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			**M** *	
Date of Inspection	4/5/2016 - 4/5/2016		10/4/2016 - 10/4/2016	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Robert Winter KSN		Robert Winter KSN	

* *Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.*

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:
a) completion of the inspection
b) any changes other than the results of normal maintenance
c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**0.14**	Rating **	M	Issue No.	**585**
LM End	**0.14**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.914335 °	37.914335 °
				-121.322387 °	-121.322387 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40628
DS_ID:75
EP_NO: 15093
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Only appurtenances remaining at this location--4 pillings located on waterward side. According to records the pillings were to be removed under a completion maintenace contract. Need to coordinate with owner.
FIELD_STRUCT_DESC: 14-inch-diameter pipeline through levee at unknown depth. Per inspector's notes "this crossing is abandoned almost all materials removed including pipes, conduit, and pumphouse. The only items left are 4 pilings which are to be removed under a completion maintenance contract. Approximately 200 feet of reinforced concrete pipe lateral removed in R/W south of crossing".
FS Date: 2/3/2010

Photo 1 of 2 : UCIP_FA_2016_40628_38516.jpg

View of landward side.

LM Start	**0.14**	Rating **	M	Issue No.	**585 (cont)**
LM End	**0.14**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_40628_38515.jpg

View of waterward side--pillings inside channel.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**0.77**	Rating **	C	Issue No.	**77**
LM End	**0.77**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.906106 °	37.906106 °
				-121.323060 °	-121.323060 °
DWR ID	DWR_RD0017_02_s _ 2016_77				

Comment Code

PR : Prunings

Inspector Comment

Landowner piling prunings at landward toe.

No Photos

LM Start	**1.08**	Rating **	U	Issue No.	**2**
LM End	**1.08**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.902530 °	37.902530 °
				-121.325690 °	-121.325690 °
DWR ID					

Comment Code

Inspector Comment

07/25/2016: No significant change observed.
06/24/2015: No significant change observed.
06/19/2014: No significant change observed.
08/13/2013: No significant change at this site.
08/07/2012: The erosion is nearly vertical, and has developed upward to halfway of the levee slope. The protecting concrete blocks have been washed away. Animal activities are visible. [2016 Site ID:RD0017U02RM44.32]

Photo 1 of 2 : SJR2016_RD0017U02RM44.32_1.jpg

Front view of the erosion site. Note the concrete blocks and vegetation at the site.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**1.08**	Rating **	U	Issue No.	**2 (cont)**
LM End	**1.08**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.902530 °	37.902530 °
				-121.325690 °	-121.325690 °
DWR ID					

Comment Code

Inspector Comment

07/25/2016: No significant change observed.
06/24/2015: No significant change observed.
06/19/2014: No significant change observed.
08/13/2013: No significant change at this site.
08/07/2012: The erosion is nearly vertical, and has developed upward to halfway of the levee slope. The protecting concrete blocks have been washed away. Animal activities are visible. [2016 Site ID:RD0017U02RM44.32]

Photo 2 of 2 : SJR2016_RD0017U02RM44.32_2.jpg

Close view of the erosion.

LM Start	**1.18**	Rating **	M	Issue No.	**619**
LM End	**1.18**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.901012 °	37.901012 °
				-121.325497 °	-121.325497 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:45449
DS_ID:9
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Appears abandoned. Should contact owner to determine status as signs have been removed from supports and should be replaced if still in service.
FIELD_STRUCT_DESC: Underground telephone cable through levee, 2 feet below crown. Warning signs on waterward slope.
FS Date: 5/19/2015

Photo 1 of 2 : UCIP_FA_2016_45449_74105.jpg

Sign on WS slope.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**1.18**	Rating **	M	Issue No.	**619 (cont)**
LM End	**1.18**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.901012 °	37.901012 °
				-121.325497 °	-121.325497 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:45449
DS_ID:9
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Appears abandoned. Should contact owner to determine status as signs have been removed from supports and should be replaced if still in service.
FIELD_STRUCT_DESC: Underground telephone cable through levee, 2 feet below crown. Warning signs on waterward slope.
FS Date: 5/19/2015

Photo 2 of 2 : UCIP_FA_2016_45449_74104.jpg

No markers on LS.

LM Start	**1.18**	Rating **	M	Issue No.	**620**
LM End	**1.18**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.901012 °	37.901012 °
				-121.325497 °	-121.325497 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:45450
DS_ID:308
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Appears Abandoned. Need to contact owner to determine status of crossing as signs have been removed from markers and should be replaced if still in service.
FIELD_STRUCT_DESC: 4-inch submarine telephone cable through the levee, 2.0 feet below the crown, and across the channel. Location marker on the waterward slope.
FS Date: 5/19/2015

Photo 1 of 2 : UCIP_FA_2016_45450_74107.jpg

Sign post on WS slope.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**1.18**	Rating **	M	Issue No.	**620 (cont)**
LM End	**1.18**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.901012 °	37.901012 °
				-121.325497 °	-121.325497 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:45450
DS_ID:308
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Appears Abandoned. Need to contact owner to determine status of crossing as signs have been removed from markers and should be replaced if still in service.
FIELD_STRUCT_DESC: 4-inch submarine telephone cable through the levee, 2.0 feet below the crown, and across the channel. Location marker on the waterward slope.
FS Date: 5/19/2015

Photo 2 of 2 : UCIP_FA_2016_45450_74106.jpg

No markers on LS.

LM Start	**1.23**	Rating **	M	Issue No.	**623**
LM End	**1.23**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.900242 °	37.900242 °
				-121.325497 °	-121.325497 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49637
DS_ID:10
EP_NO: 15098
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 5/19/2015 Only signs of electrical conduit found. Need to contact owner to determine status of pipe as no record of removal has been found and only an electrical conduit was found at this location. (DWR UCIP - W. Wylie)
FIELD_STRUCT_DESC: 8-inch steel irrigation pipe, 1 of 2 pipes, one (1) 8-inch pipe and one (1) 12-inch pipe, through the levee, 3.3 feet below levee crown. Electrical conduit through levee. Pump house located on waterward berm. Siphon breaker on waterward shoulder, standpipe located 10 feet from landward toe. (Permit No. 15098-1989).
FS Date: 5/19/2015

Photo 1 of 2 : UCIP_FA_2016_49637_74109.jpg

View of WS slope with electrical conduit.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

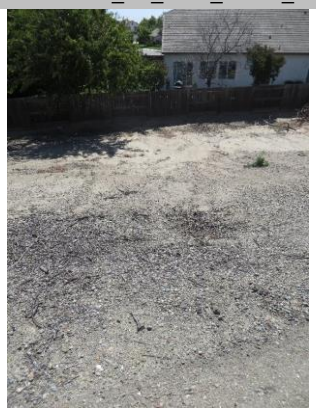
LM Start	**1.23**	Rating **	M	Issue No.	**623 (cont)**
LM End	**1.23**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.900242 °	37.900242 °
				-121.325497 °	-121.325497 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49637
DS_ID:10
EP_NO: 15098
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 5/19/2015 Only signs of electrical conduit found. Need to contact owner to determine status of pipe as no record of removal has been found and only an electrical conduit was found at this location. (DWR UCIP - W. Wylie)
FIELD_STRUCT_DESC: 8-inch steel irrigation pipe, 1 of 2 pipes, one (1) 8-inch pipe and one (1) 12-inch pipe, through the levee, 3.3 feet below levee crown. Electrical conduit through levee. Pump house located on waterward berm. Siphon breaker on waterward shoulder, standpipe located 10 feet from landward toe. (Permit No. 15098-1989).
FS Date: 5/19/2015

Photo 2 of 2 : UCIP_FA_2016_49637_74108.jpg



View of LS. No appurtances noted.

LM Start	**1.29**	Rating **	C	Issue No.	**6**
LM End	**1.29**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.899510 °	37.899510 °
				-121.326030 °	-121.326030 °
DWR ID					

Comment Code

Inspector Comment

07/25/2016: No sign of erosion observed at the repaired site.
06/24/2015: No significant change observed.
06/19/2014: The erosion has been repaired. A minor erosion is still visible near the tree.
08/13/2013: A mid-size tree is present immediately upstream of the erosion, which could block the view of the site. Some debris is visible.
[2016 Site ID:RD0017U02RM44.52]

No Photos

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**1.45**	Rating **	M	Issue No.	**598**
LM End	**1.45**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.897280 °	37.897280 °
				-121.326775 °	-121.326775 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40639
DS_ID:11
EP_NO: 15316
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Need to contact owner to determine status--pipe was not found only siphon breaker housing unit.
FIELD_STRUCT_DESC: 8 inch diameter discharge pipeline through levee. Invert of pipe is 3.8 feet below levee crown. Siphon breaker on the waterward shoulder. Pump is located inside ditch located approximately 75 feet landward of levee toe. (Permit No. 15316-1989)
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40639_38687.jpg

View of levee crown at crossing.

LM Start	**1.45**	Rating **	M	Issue No.	**598 (cont)**
LM End	**1.45**	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_40639_38686.jpg

View of landward side.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

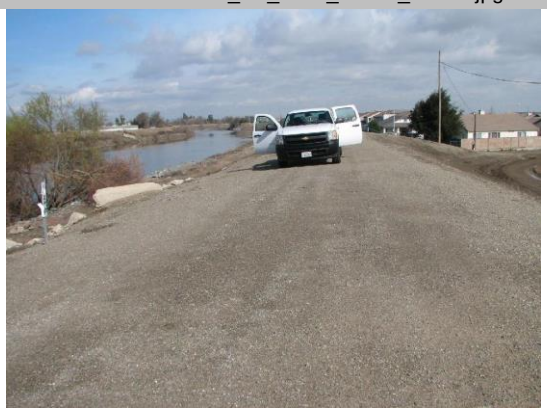
LM Start	**1.50**	Rating **	M	Issue No.	**599**
LM End	**1.50**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.896602 °	37.896602 °
				-121.327104 °	-121.327104 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40640
DS_ID:12
EP_NO: 15099
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23.
FIELD_STRUCT_DESC: 16 inch diameter irrigation pipeline through levee. Invert of pipe is 3.64 feet below levee crown. Siphon breaker on waterward shoulder. Pump house located on the waterward berm. Standpipe located 15 feet from landward toe. Concrete stairway on waterward slope. (Permit No. 15099-1989)
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40640_71981.jpg



View of levee crown at crossing.

LM Start	**1.50**	Rating **	M	Issue No.	**599 (cont)**
LM End	**1.50**	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_40640_38706.jpg

Standpipe located on landward side.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**1.67**	Rating **	M	Issue No.	**624**
LM End	**1.67**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.894217 °	37.894217 °
				-121.328231 °	-121.328231 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49640
DS_ID:13
EP_NO: 15100
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 09/07/2016 Need to coordinate with owner to determine if 12-inch pipe was sleeved through authorized 16-inch pipe. Unable to confirm if 12-inch pipe was authorized under Permit No. 15100. Also need to coordinate with owner to determine extent of repair to crossing--previous leak to WS pipe section. (DWR UCIP - O. Magana)05/19/2015 Notes were initially recorded under DS_ID entry 82 due to field confirmed pipe size (12-inch and not 16-inch as described in permit). Record was updated to show 12 inch crossing was authorized under Permit 15100. UPDATED INFO @ CROSSING: Damage pipe section located on waterward toe has been replaced with new section. (DWR UCIP - O. Magana)02/0/2010 Holes in pipe at WS toe good indicator of pipe internal condition. Owner should perform an internal inspection of the pipe through the levee. (DWR UCIP - O. Magana)
FIELD_STRUCT_DESC: 12-inch (instead of 16-inch as indicated in permit As-Built) steel irrigation pipe through levee, 2.35 feet below the crown. Siphon breaker is located on the waterside (WS) shoulder. Pump is supported by steel support beams in the ditch located approximately 35 feet from landside (LS) toe. Ramp is located on the LS slope. (16-inch pipe installed under Permit No. 15100, 1990 - W. Long).
FS Date: 5/19/2015

Photo 1 of 2 : UCIP_FA_2016_49640_74436.jpg

(2015) Damage pipe section located on WS toe has been replaced.

LM Start	**1.67**	Rating **	M	Issue No.	**624 (cont)**
LM End	**1.67**	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_49640_74437.jpg

(2015) View of landward side.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**2.02**	Rating **	M	Issue No.	**600**
LM End	**2.02**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.889622 °	37.889622 °
				-121.328721 °	-121.328721 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40642
DS_ID:14
EP_NO: 15317
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to coordinate with owner to determine status of crossing. Need to find out if pipe located on landward side is tied to pipe through levee. Pipe found on waterward side is filled with concrete (non-functional).
FIELD_STRUCT_DESC: 10 inch diameter steel stormwater discharge pipeline through levee. Invert of pipe is 4.74 feet below levee crown. Siphon breaker on waterward slope. Pump in ditch located 300 feet landward of toe. Ramp on landward slope. 10 inch pipe connects to an existing 16 inch discharge pipe on the landward side. (Permit No. 15317-1990) This pipe was installed during the levee work approved under encroachment number 15014.
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40642_38742.jpg

View of waterward side--riser located on waterward shoulder.

LM Start	**2.02**	Rating **	M	Issue No.	**600 (cont)**
LM End	**2.02**	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_40642_38740.jpg

View of landward side.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**2.05**	Rating **	M	Issue No.	**629**
LM End	**2.05**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.889296 °	37.889296 °
				-121.328847 °	-121.328847 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49992
DS_ID:15
EP_NO: 15101
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 7/12/2016 Rodent activity is present at this crossing. Unable to confirm if sink hole was present--depression near riser is still visible. Pipe was running during site visit. Crossing has been downgraded from Urgent to Non-Urgent---no damage was visible to levee crown or LS slope and only minor depression found around WS riser. Depression near siphon breaker on WS shoulder could be due to poor compaction or rodent activity--recommend monitoring site. Need to contact owner to determine if any internal integrity inspections have been done at this crossing. (DWR UCIP - omagana)2/04/2010 Sink hole present at siphon breaker riser located on waterward shoulder. Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through levee, 2.93 feet below levee crown. Siphon breaker is located on the waterside (WS) shoulder. Pump house is located on the WS berm. Concrete stairway is located on WS slope. Concrete standpipe is located approximately 25 feet from landside (LS) toe. Pipe was installed as part of the re-shaping of RD17 project levees in 1989. The re-shaping of the levees was to increase levee elevations and provide freeboard above 100-year stages in both the San Joaquin River and French Camp Slough; work was authorized and documented under Permit No. 15014. (Permit No. 15101, 1989 - Calcagno Farms Co-Partnership; levee re-shaping authorized under Permit No. 15014, 1989 - Reclamation District 17) [Additional Reference(s): DWR Levee Log, 1981 and 2003]
FS Date: 7/12/2016

Photo 1 of 2 : UCIP_FA_2016_49992_38770.jpg

View of LS.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**2.05**	Rating **	M	Issue No.	**629 (cont)**
LM End	**2.05**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.889296 °	37.889296 °
				-121.328847 °	-121.328847 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49992
DS_ID:15
EP_NO: 15101
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 7/12/2016 Rodent activity is present at this crossing. Unable to confirm if sink hole was present--depression near riser is still visible. Pipe was running during site visit. Crossing has been downgraded from Urgent to Non-Urgent---no damage was visible to levee crown or LS slope and only minor depression found around WS riser. Depression near siphon breaker on WS shoulder could be due to poor compaction or rodent activity--recommend monitoring site. Need to contact owner to determine if any internal integrity inspections have been done at this crossing. (DWR UCIP - omagana)2/04/2010 Sink hole present at siphon breaker riser located on waterward shoulder. Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through levee, 2.93 feet below levee crown. Siphon breaker is located on the waterside (WS) shoulder. Pump house is located on the WS berm. Concrete stairway is located on WS slope. Concrete standpipe is located approximately 25 feet from landside (LS) toe. Pipe was installed as part of the re-shaping of RD17 project levees in 1989. The re-shaping of the levees was to increase levee elevations and provide freeboard above 100-year stages in both the San Joaquin River and French Camp Slough; work was authorized and documented under Permit No. 15014. (Permit No. 15101, 1989 - Calcagno Farms Co-Partnership; levee re-shaping authorized under Permit No. 15014, 1989 - Reclamation District 17) [Additional Reference(s): DWR Levee Log, 1981 and 2003]
FS Date: 7/12/2016

Photo 2 of 2 : UCIP_FA_2016_49992_38773.jpg

View of WS.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**2.23**	Rating **	M	Issue No.	**601**
LM End	**2.23**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.887057 °	37.887057 °
				-121.330484 °	-121.330484 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40645
DS_ID:16
EP_NO: 15102
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to coordinate with owner to determine status of crossing.
FIELD_STRUCT_DESC: 20 inch diameter irrigation pipeline through levee. Invert of pipe is 2.8 feet below levee crown. Fill placed over the pipeline to provide 2.0 feet of cover. Siphon breaker on waterward shoulder. Pump on platform with walkway to shoulder, standpipe located 15 feet landward tee, concrete stairway en waterward slope. (Permit No. 15102-1990) This pipe was installed during the levee work approved under encroachment number 15014.
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40645_72002.jpg

View of levee crown at crossing.

LM Start	**2.23**	Rating **	M	Issue No.	**601 (cont)**
LM End	**2.23**	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_40645_72001.jpg

Standpipe located on landward toe.

* 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

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**2.49**	Rating **	M	Issue No.	**602**
LM End	**2.49**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.883427 °	37.883427 °
				-121.331189 °	-121.331189 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40646
DS_ID:17
EP_NO: 15103
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23.
FIELD_STRUCT_DESC: 8 inch diameter steel irrigation pipeline through levee. Invert of pipe is 3.47 feet below crown. Siphon breaker on landward shoulder. Pump house on waterward slope, standpipe located 10 feet from landward tee. Concrete stairway on waterward slope. (Permit No. 15103-1990) This pipe was installed during the levee work approved under encroachment number 15014.
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40646_72010.jpg

View of waterward side.

LM Start	**2.49**	Rating **	M	Issue No.	**602 (cont)**
LM End	**2.49**	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_40646_72009.jpg

View of levee crown at crossing.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**2.66**	Rating **	M	Issue No.	**614**
LM End	**2.66**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.881091 °	37.881091 °
				-121.331842 °	-121.331842 °
DWR ID					

Comment Code

Inspector Comment

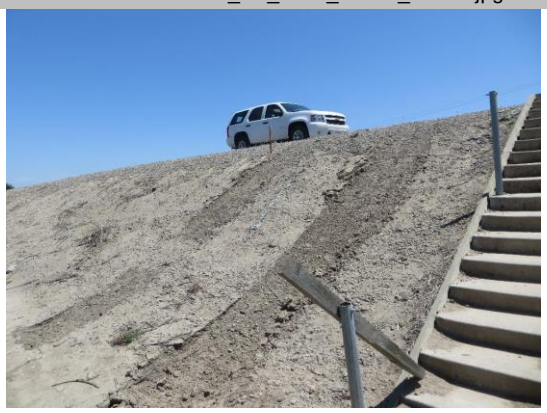
FS_ID:46009
DS_ID:315
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 05/19/15 Pipe has been removed. Need to contact KSN, engineering consultants for LMA, to obtain records showing pipe removal and obtain permit authoring work. 02/04/10 Hole present on waterward side pipe--historical records indicate crossing abandoned however unable to confirm. Unable to confirm condition of pipe through levee. Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23.
FIELD_STRUCT_DESC: *REMOVED* 4-inch pipe through the levee, 2.0 feet below the crown. Pump on concrete pad on the waterward slope. Gate valve on the waterward slope. Pipe open on both ends.
FS Date: 5/19/2015

Photo 1 of 2 : UCIP_FA_2016_46009_74439.jpg

(2015) View of waterward slope.

LM Start	**2.66**	Rating **	M	Issue No.	**614 (cont)**
LM End	**2.66**	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_46009_74441.jpg



(2015) View of waterward slope--pipe removed.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**2.66**	Rating **	C	Issue No.	**8**
LM End	**2.66**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.881020 °	37.881020 °
				-121.332260 °	-121.332260 °
DWR ID					

Comment Code

Inspector Comment

07/25/2016: No sign of erosion was found at the repaired site.
06/24/2015: Erosion has been repaired.
06/19/2014: The erosion was probably caused by the irrigation pipe found at the site. [2016 Site ID:RD0017U02RM45.94]

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**2.67**	Rating **	U	Issue No.	**632**
LM End	**2.67**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.880960 °	37.880960 °
				-121.331846 °	-121.331846 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50081
DS_ID:277
EP_NO: 15104
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 7/12/2016 Leak is present on WS section of pipe. Recommend an internal inspection of the pipe through the levee due to the age of the pipe and the present leak found on the WS. Owner will need to coordinate with DWR Inspector and CVFPB to address leak. (DWR UCIP - O. Magana)5/19/2015 Crossing is being maintained. (DWR UCIP - O. Magana)2/04/2010 Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. (DWR UCIP - O. Magana)
FIELD_STRUCT_DESC: 2 of 3: 8-inch steel irrigation pipe through the levee, 2.18 feet below levee crown. Three pipes are within a 30 foot section of levee and the fourth pipe crosses at the extension of Mathews Road. Two concrete stairways are located on the waterside (WS) slope. Pipe was installed as part of the re-shaping of RD17 project levees in 1989. The re-shaping of the levees was to increase levee elevations and provide freeboard above 100-year stages in both the San Joaquin River and French Camp Slough; work was authorized and documented under Permit No. 15014. (8-inch pipe installed under Permit No. 15104, 1989 - R. Remonda and C. Young; levee re-shaping authorized under Permit No. 15014, 1989 - Reclamation District 17) [Additional Reference(s): DWR Levee Log, 1981 and 2003]
FS Date: 7/12/2016

Photo 1 of 2 : UCIP_FA_2016_50081_75745.jpg

View of WS--slope cleared of vegetation.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

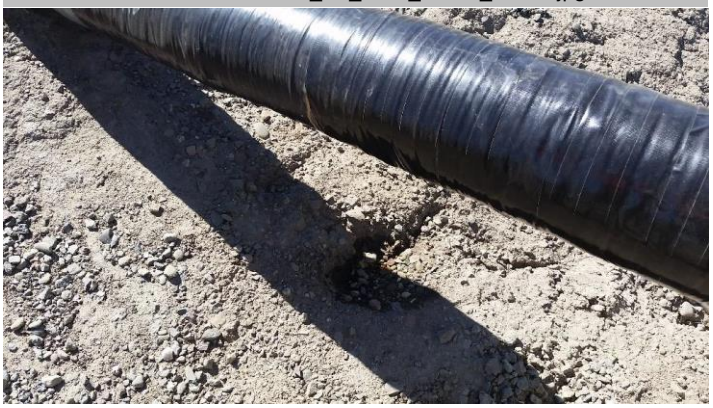
LM Start	**2.67**	Rating **	U	Issue No.	**632 (cont)**
LM End	**2.67**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.880960 °	37.880960 °
				-121.331846 °	-121.331846 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50081
DS_ID:277
EP_NO: 15104
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 7/12/2016 Leak is present on WS section of pipe. Recommend an internal inspection of the pipe through the levee due to the age of the pipe and the present leak found on the WS. Owner will need to coordinate with DWR Inspector and CVFPB to address leak. (DWR UCIP - O. Magana)5/19/2015 Crossing is being maintained. (DWR UCIP - O. Magana)2/04/2010 Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. (DWR UCIP - O. Magana)
FIELD_STRUCT_DESC: 2 of 3: 8-inch steel irrigation pipe through the levee, 2.18 feet below levee crown. Three pipes are within a 30 foot section of levee and the fourth pipe crosses at the extension of Mathews Road. Two concrete stairways are located on the waterside (WS) slope. Pipe was installed as part of the re-shaping of RD17 project levees in 1989. The re-shaping of the levees was to increase levee elevations and provide freeboard above 100-year stages in both the San Joaquin River and French Camp Slough; work was authorized and documented under Permit No. 15014. (8-inch pipe installed under Permit No. 15104, 1989 - R. Remonda and C. Young; levee re-shaping authorized under Permit No. 15014, 1989 - Reclamation District 17) [Additional Reference(s): DWR Levee Log, 1981 and 2003]
FS Date: 7/12/2016

Photo 2 of 2 : UCIP_FA_2016_50081_75742.jpg



WS view--moisture observed on ground below wrapped pipe section, photo 1 of 2.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**2.67**	Rating **	U	Issue No.	**630**
LM End	**2.67**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.880923 °	37.880923 °
				-121.331857 °	-121.331857 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49993
DS_ID:278
EP_NO: 15104
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 7/12/2016 Same as previous inspection. Holes visible along exposed WS section of pipe. (DWR UCIP - omagana)5/19/2015 Holes through pipe visible on waterward toe. Recommend contacting owner to confirm pipe use--good candidate for internal inspection. (DWR UCIP - omagana)2/04/2010 Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 3 of 3: 8-inch steel irrigation pipe through the levee, 2.85 feet below levee crown. Pump station is located on waterside (WS). Concrete standpipe is located on the landside (LS) toe. Pipe was installed as part of the re-shaping of RD17 project levees in 1989. The re-shaping of the levees was to increase levee elevations and provide freeboard above 100-year stages in both the San Joaquin River and French Camp Slough; work was authorized and documented under Permit No. 15014. (Permit No. 15104, 1989 - R. Romonda and C. Young; levee re-shaping authorized under Permit No. 15014, 1989 - Reclamation District 17). [Additional Reference(s): DWR Levee Log, 1981 and 2003]
FS Date: 7/12/2016

Photo 1 of 2 : UCIP_FA_2016_49993_75736.jpg

View of WS, photo taken downstream looking at upstream pipe. Photo 1 of 2.

LM Start	**2.67**	Rating **	U	Issue No.	**630 (cont)**
LM End	**2.67**	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_49993_75733.jpg

View of WS, photo taken upstream looking at first pipe. Photo 1 of 2.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**2.67**	Rating **	C	Issue No.	**10**
LM End	**2.69**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.880710 °	37.880710 °
				-121.332200 °	-121.332200 °
DWR ID					

Comment Code

Inspector Comment

07/25/2016: The construction work on the levee slope has been finished, and the erosion was repaired.
06/24/2015: Levee has been cut at the mid slope and a temporary step has been made for unknown purpose. More erosion has been found at the site.
6/19/2014: The erosion is in the river bank which has an estimated 10-ft wide berm. [2016 Site ID:RD0017U02RM45.95]

No Photos

LM Start	**2.78**	Rating **	C	Issue No.	**82**
LM End	**2.79**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.879293 °	37.879293 °
				-121.332518 °	-121.332518 °
DWR ID					

Comment Code

Inspector Comment

07/25/2016: No sign of erosion observed at the repaired site.
06/24/2015: No significant change observed.
06/19/2014: The erosion has been repaired.
08/13/2013: Found during boat survey. There is vegetation at the site.
[2016 Site ID:RD0017U02RM46.03]

No Photos

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**2.82**	Rating **	M	Issue No.	**83**
LM End	**2.82**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.878660 °	37.878660 °
				-121.332400 °	-121.332400 °
DWR ID					

Comment Code

Inspector Comment

07/25/2016: No significant change observed.
06/24/2015: No significant change observed.
06/19/2014: A pocket erosion was found during the boat survey. [2016 Site ID:RD0017U02RM46.1]

Photo 1 of 2 : SJR2016_RD0017U02RM46.1_1.jpg

Front view of the erosion.

LM Start	**2.82**	Rating **	M	Issue No.	**83 (cont)**
LM End	**2.82**	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SJR2016_RD0017U02RM46.1_3.jpg

Close view of the erosion. The slope protection is poor.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**3.00**	Rating **	M	Issue No.	**577**
LM End	**3.00**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.876317 °	37.876317 °
				-121.331447 °	-121.331447 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40655
DS_ID:20
EP_NO: 15106
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Burrow activity dession on landward slope. Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23.
FIELD_STRUCT_DESC: 10 inch diameter irrigation pipeline through levee. Invert of pipe is 4.1 feet below levee crown. Siphon breaker on landward shoulder. Pump on waterward slope, standpipe located 14 feet landward of levee toe. (Permit No. 15106-1989) This pipe was installed during the levee work approved under encroachment number 15014.
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40655_72050.jpg

View of waterward side.

LM Start	**3.00**	Rating **	M	Issue No.	**577 (cont)**
LM End	**3.00**	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_40655_72051.jpg

Pump station and control panel located on waterward side.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**3.16**	Rating **	M	Issue No.	**613**
LM End	**3.16**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.874160 °	37.874160 °
				-121.331761 °	-121.331761 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:46005
DS_ID:21
EP_NO: 15310
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 05/19/15 Deteriorated section of pipe has been replaced. Need to contact KSN, engineering consulting representing LMA, to determine repair details and to obtain permit authorizing repair.02/04/10 Pipe wall deteriorated. Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23.
FIELD_STRUCT_DESC: 10 inch discharge pipeline through levee. The invert of the pipe is 3.78 feet below crown. Siphon breaker on landward shoulder. Pump located on the landward side approximately 45 feet from the levee toe. (Permit No. 15310-1989) This pipe was installed during the levee work approved under encroachment number 15014.
FS Date: 5/19/2015

Photo 1 of 2 : UCIP_FA_2016_46005_74456.jpg

(2015) View of waterward side.

LM Start	**3.16**	Rating **	M	Issue No.	**613 (cont)**
LM End	**3.16**	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_46005_74458.jpg

(2015) Pipe section replaced.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**3.44**	Rating **	M	Issue No.	**627**
LM End	**3.44**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.871000 °	37.871000 °
				-121.329000 °	-121.329000 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50004
DS_ID:25466
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 7/12/2016 Under Construction--Missing permit information and as-built drawings. New pipe installed 7/12/2016, as an emergency repair--owner in the process of obtaining permit from CVFPB. This pipe replaces DS_ID 22, pipe was removed July 2016. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, X.XX feet below levee crown. Pump sits on the platform supported by steel piles located on the waterside (WS). Walkway extends from the pump platform to the WS. Positive closure device located on WS near walkway. (16-inch steel pipe installed under Permit No. XXXX, 2016 - XXXXX).
FS Date: 7/12/2016

Photo 1 of 2 : UCIP_FA_2016_50004_75870.jpg

View of exposed pipe on LS--photo taken during install progress.

LM Start	**3.44**	Rating **	M	Issue No.	**627 (cont)**
LM End	**3.44**	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_50004_75871.jpg

View of WS--coated pipe, walkway, and removal of concrete stairway. Construction in progress.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**3.47**	Rating **	M	Issue No.	**578**
LM End	**3.47**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.870623 °	37.870623 °
				-121.328775 °	-121.328775 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40658
DS_ID:23
EP_NO: 4116
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to contact owner to determine status of crossing. Need date of last inspection and confirmation that crossing is still in operable condition.
FIELD_STRUCT_DESC: 8 inch diameter high pressure gas main through the levee. Invert of pipe is 3.9 feet below the crown. Location sign for gas pipeline crossing on waterward slope. (Permit No. 4116-1962) PG&E contact information 510-779-4830 for crossing.
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40658_72112.jpg

View of levee crown at crossing.

LM Start	**3.47**	Rating **	M	Issue No.	**578 (cont)**
LM End	**3.47**	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_40658_72111.jpg

View of landward side.

* 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

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**3.63**	Rating **	M	Issue No.	**579**
LM End	**3.63**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.868657 °	37.868657 °
				-121.327383 °	-121.327383 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40659
DS_ID:26
EP_NO: 15109
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Erosion around siphon breaker on landward side recommend investigating potential leak.
FIELD_STRUCT_DESC: 12 inch pipeline through levee. Invert of pipe is 4.0 feet below levee crown. Siphon breaker on landward shoulder. Pump in irrigation ditch 45 feet from landward toe. (Permit No. 15109-1990)
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40659_72116.jpg

View of pipe section and pump station located on landward side.

LM Start	**3.63**	Rating **	M	Issue No.	**579 (cont)**
LM End	**3.63**	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_40659_72115.jpg

Pump station locate on landward side.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**3.63**	Rating **	C	Issue No.	**84**
LM End	**3.63**	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.868500 °	37.868500 °
				-121.327670 °	-121.327670 °
DWR ID					

Comment Code

Inspector Comment

07/25/2016: The erosion has been repaired. No new erosion found at the repaired site.
06/24/2015: No significant change observed.
06/19/2014: The erosion is near a large tree and probably has been caused by the irrigation pipe on the site. [2016 Site ID:RD0017U02RM46.89]

No Photos

LM Start	**3.73**	Rating **	U	Issue No.	**75**
LM End	**3.73**	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.867233 °	37.867233 °
				-121.326712 °	-121.326712 °
DWR ID	DWR_RD0017_02_f _ 2016_75				

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Large breaver holes on waterward berm

Photo 1 of 2 : FA_2016_RD0017_304_75_20161006_00202.jpg

Looking east at beaver den on waterward slope.

LM Start	**3.73**	Rating **	U	Issue No.	**75 (cont)**
LM End	**3.73**	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_RD0017_304_75_20161006_00203.jpg

Looking southwest at district excavating and backfilling beaver dens on waterward slope.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**3.75**	Rating **	M	Issue No.	**628**
LM End	**3.75**	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.867000 °	37.867000 °
				-121.327000 °	-121.327000 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50005
DS_ID:25465
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 7/12/2016 Missing permit number and as-built drawings for this crossing. New pipe installed June 2016. According to Rick Toy, KSN-District Engineer, DCC Engineering is working with CVFPB to obtain permit for owner. Pipe replaces DS_ID 27--pipe removed May 2016. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: UNK-inch steel irrigation pipe through levee, X.XX feet below the crown. Slant pump is located on waterside (WS) slope, standpipe located 5 feet from LS toe. Concrete stairways with guardrail located on the WS. Two power poles (about 10 feet apart) located on landside (LS) toe. (Permit No. XXXXX, 2016 - XXXXXX)
FS Date: 7/12/2016

Photo 1 of 2 : UCIP_FA_2016_50005_75863.jpg

View of WS, photo taken looking downstream.

LM Start	**3.75**	Rating **	M	Issue No.	**628 (cont)**
LM End	**3.75**	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_50005_75864.jpg

View of LS, photo taken looking downstream.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**4.19**	Rating **	C	Issue No.	**48**
LM End	**4.22**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.863819 °	37.863601 °
				-121.320784 °	-121.320299 °
DWR ID	DWR_RD0017_02_s _ 2012_48				

Comment Code

V6 : Landscaping

Inspector Comment

No Photos

LM Start	**4.21**	Rating **	M	Issue No.	**584**
LM End	**4.21**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.863644 °	37.863644 °
				-121.320435 °	-121.320435 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:43264
DS_ID:28
EP_NO: 15111
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 2/4/15--Olivia 2010 Records from KSN show this crossing was removed based on the RD17 As-Built Pipe Crossing Statining Reference, however when field verification was completed in this area a 2-inch pipe was found. This could be a different 2-inch pipe in nearby area. Need to coordinate with owner to determine permit issued for this crossing.2/4/10 Pipe is not continous. Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23.
FIELD_STRUCT_DESC: *REMOVED* 2 inch pipeline through levee. Invert of pipeline is 3.92 feet below levee crown. Siphon breaker on landward shoulder. Pump on waterward slope. Pipe extends beyond 10 feet of the landward toe. (Permit No. 15111-1990). This pipe was installed during the levee work approved under encroachment number 15014.
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_43264_72125.jpg

View of levee crown at crossing.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**4.21**	Rating **	M	Issue No.	**584 (cont)**
LM End	**4.21**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.863644 °	37.863644 °
				-121.320435 °	-121.320435 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:43264
DS_ID:28
EP_NO: 15111
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 2/4/15--Olivia 2010 Records from KSN show this crossing was removed based on the RD17 As-Built Pipe Crossing Statining Reference, however when field verification was completed in this area a 2-inch pipe was found. This could be a different 2-inch pipe in nearby area. Need to coordinate with owner to determine permit issued for this crossing.2/4/10 Pipe is not continous. Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23.
FIELD_STRUCT_DESC: *REMOVED* 2 inch pipeline through levee. Invert of pipeline is 3.92 feet below levee crown. Siphon breaker on landward shoulder. Pump on waterward slope. Pipe extends beyond 10 feet of the landward toe. (Permit No. 15111-1990). This pipe was installed during the levee work approved under encroachment number 15014.
FS Date: 2/4/2010

Photo 2 of 2 : UCIP_FA_2016_43264_72124.jpg

View of landward side.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**4.26**	Rating **	M	Issue No.	**580**
LM End	**4.26**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.863195 °	37.863195 °
				-121.319920 °	-121.319920 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40662
DS_ID:29
EP_NO: 15112
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to coordinate with owner to determine status of crossing. If crossing is no longer in use owner will need to contact the CVFPB to comply with Title 23. Debris (pipe section) scattered on waterward side.
FIELD_STRUCT_DESC: 10 inch diameter irrigation pipeline through levee. Invert of pipe is 4.12 feet below crown. Siphon breaker on landward shoulder. Pump on waterward berm, standpipe located 28 feet from the landward toe. (Permit No. 15112-1990). Stairway located on both waterward and landward slopes. This pipe was installed during the levee work approved under encroachment number 15014.
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40662_72130.jpg

View of landward side.

LM Start	**4.26**	Rating **	M	Issue No.	**580 (cont)**
LM End	**4.26**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_40662_72128.jpg

View of waterward side--pump house, walkway, pipe, and abandone pipe section.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**4.31**	Rating **	M	Issue No.	**581**
LM End	**4.31**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.862383 °	37.862383 °
				-121.319797 °	-121.319797 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40376
DS_ID:801
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Unable to confirm if conduit goes through levee. Need to contact owner to obtain additional information about crossing and status.
FIELD_STRUCT_DESC: 2.5 inch conduit visible on landward side.
FS Date: 2/25/2010

No Photos

LM Start	**4.37**	Rating **	A/W	Issue No.	**1**
LM End	**4.39**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.861673 °	37.861370 °
				-121.320115 °	-121.320102 °
DWR ID	DWR_RD0017_02_s _ 2012_1				

Comment Code

V6 : Landscaping

Inspector Comment

Oleander along fence line. LMA trimmed oleander along landside.

Photo 1 of 2 : FA_2016_RD0017_304_1_20161006_00205.jpg

Looking south at trimmed oleanders on landward slope along fence.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**4.37**	Rating **	A/W	Issue No.	**1 (cont)**
LM End	**4.39**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.861673 °	37.861370 °
				-121.320115 °	-121.320102 °
DWR ID	DWR_RD0017_02_s _ 2012_1				

Comment Code

V6 : Landscaping

Inspector Comment

Oleander along fence line. LMA trimmed oleander along landside.

Photo 2 of 2 : FA_2016_RD0017_304_1_20161006_00204.jpg

Looking southwest at trimmed oleanders on landward slope along fence.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**4.80**	Rating **	U	Issue No.	**631**
LM End	**4.80**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.856998 °	37.856998 °
				-121.318796 °	-121.318796 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49997
DS_ID:33
EP_NO: 15116
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 7/12/2016 Same as last inspection--internal erosion on WS and LS slope slipping with visible head scarp. Internal erosion visible from WS where pipe daylights. LS slope slipping with visible head scarp approximately 6-inches. Need to coordinate with owner to address issue. Owner will need to work with DWR Inspector and CVFPB to comply with Title 23 requirements. Recommend internal integrity inspection of crossing to determine pipe condition through levee. (DWR UCIP - omagana)5/19/2015 Signs of internal erosion visible on waterward side where pipe daylights. Slope slumping visible on landward side where previous levee damage was present. Need to contact owner and KSN, LMA engineering firm, to coordinate potential issues with pipe. (DWR UCIP - omagana)2/04/2010 Pipe failure--internal erosion visible on waterward and landward side. Recommend LMA superintendent notify owner to stop using crossing to avoid further damage to levee slope. Owner will need to coordinate with DWR Inspector and CVFPB to address pipe failure per Title 23 requirements. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through levee, approximately 3.66 below the levee crown. Siphon breaker is located on the waterside (WS) shoulder. Also visible on the WS is the pump, the platform supported by steel piles in channel, a wooden walkway which extends from pump platform to WS slope, a concrete stairway which extends from walkway to WS shoulder. A double side approach ramp is located on the landside (LS) slope. Pipe was installed as part of the re-shaping of RD17 project levees in 1989. The re-shaping of the levees was to increase levee elevations and provide freeboard above 100-year stages in both the San Joaquin River and French Camp Slough; work was authorized and documented under Permit No. 15014. (Permit No. 15116, 1990 - Rio Blanco Ranch, Inc.; levee re-shaping authorized under Permit No. 15014, 1989 - Reclamation District 17) [Additional Reference(s): DWR Levee Log, 1981 and 2003]
FS Date: 7/12/2016

Photo 1 of 2 : UCIP_FA_2016_49997_75723.jpg

View of WS.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**4.80**	Rating **	U	Issue No.	**631 (cont)**
LM End	**4.80**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.856998 °	37.856998 °
				-121.318796 °	-121.318796 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49997
DS_ID:33
EP_NO: 15116
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 7/12/2016 Same as last inspection--internal erosion on WS and LS slope slipping with visible head scarp. Internal erosion visible from WS where pipe daylights. LS slope slipping with visible head scarp approximately 6-inches. Need to coordinate with owner to address issue. Owner will need to work with DWR Inspector and CVFPB to comply with Title 23 requirements. Recommend internal integrity inspection of crossing to determine pipe condition through levee. (DWR UCIP - omagana)5/19/2015 Signs of internal erosion visible on waterward side where pipe daylights. Slope slumping visible on landward side where previous levee damage was present. Need to contact owner and KSN, LMA engineering firm, to coordinate potential issues with pipe. (DWR UCIP - omagana)2/04/2010 Pipe failure--internal erosion visible on waterward and landward side. Recommend LMA superintendent notify owner to stop using crossing to avoid further damage to levee slope. Owner will need to coordinate with DWR Inspector and CVFPB to address pipe failure per Title 23 requirements. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through levee, approximately 3.66 below the levee crown. Siphon breaker is located on the waterside (WS) shoulder. Also visible on the WS is the pump, the platform supported by steel piles in channel, a wooden walkway which extends from pump platform to WS slope, a concrete stairway which extends from walkway to WS shoulder. A double side approach ramp is located on the landside (LS) slope. Pipe was installed as part of the re-shaping of RD17 project levees in 1989. The re-shaping of the levees was to increase levee elevations and provide freeboard above 100-year stages in both the San Joaquin River and French Camp Slough; work was authorized and documented under Permit No. 15014. (Permit No. 15116, 1990 - Rio Blanco Ranch, Inc.; levee re-shaping authorized under Permit No. 15014, 1989 - Reclamation District 17) [Additional Reference(s): DWR Levee Log, 1981 and 2003]
FS Date: 7/12/2016

Photo 2 of 2 : UCIP_FA_2016_49997_75724.jpg

Internal erosion still visible on WS.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**4.95**	Rating **	M	Issue No.	**625**
LM End	**4.95**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.855370 °	37.855370 °
				-121.319870 °	-121.319870 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49998
DS_ID:34
EP_NO: 15117
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 7/12/2016 Crossing has been downgraded from Urgent to Non-Urgent--LS levee slope repaired. Levee slope was disturbed to repair leaky pipe--LS splice approximately 20-30 feet off the LS toe. Need to contact owner to determine if any documentation is available to support repair extent or internal integrity inspection of pipe through levee. (DWR UCIP - omagana)2/04/2010 Section of landward slope exposed--Need to contact owner to address cut on levee and determine status of crossing. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through levee, 3.43 feet below the levee crown. Siphon breaker is located on the waterside (WS) shoulder. Pump is located approximately 100 feet from the landside (LS) toe. Ramp is located on the LS slope. Pipe was installed as part of the re-shaping of RD17 project levees in 1989. The re-shaping of the levees was to increase levee elevations and provide freeboard above 100-year stages in both the San Joaquin River and French Camp Slough; work was authorized and documented under Permit No. 15014. (Permit No. 15117, 1989 - Rio Blanco Ranch, Inc.; levee re-shaping authorized under Permit No. 15014, 1989 - Reclamation District 17) [Additional Reference(s): DWR Levee Log, 1981 and 2003]
FS Date: 7/12/2016

Photo 1 of 2 : UCIP_FA_2016_49998_72215.jpg

View of LS.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**4.95**	Rating **	M	Issue No.	**625 (cont)**
LM End	**4.95**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.855370 °	37.855370 °
				-121.319870 °	-121.319870 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49998
DS_ID:34
EP_NO: 15117
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 7/12/2016 Crossing has been downgraded from Urgent to Non-Urgent--LS levee slope repaired. Levee slope was disturbed to repair leaky pipe--LS splice approximately 20-30 feet off the LS toe. Need to contact owner to determine if any documentation is available to support repair extent or internal integrity inspection of pipe through levee. (DWR UCIP - omagana)2/04/2010 Section of landward slope exposed--Need to contact owner to address cut on levee and determine status of crossing. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through levee, 3.43 feet below the levee crown. Siphon breaker is located on the waterside (WS) shoulder. Pump is located approximately 100 feet from the landside (LS) toe. Ramp is located on the LS slope. Pipe was installed as part of the re-shaping of RD17 project levees in 1989. The re-shaping of the levees was to increase levee elevations and provide freeboard above 100-year stages in both the San Joaquin River and French Camp Slough; work was authorized and documented under Permit No. 15014. (Permit No. 15117, 1989 - Rio Blanco Ranch, Inc.; levee re-shaping authorized under Permit No. 15014, 1989 - Reclamation District 17) [Additional Reference(s): DWR Levee Log, 1981 and 2003]
FS Date: 7/12/2016

Photo 2 of 2 : UCIP_FA_2016_49998_72214.jpg

Section of levee slope exposed on LS.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**4.98**	Rating **	C	Issue No.	**78**
LM End	**5.12**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.854875 °	37.853192 °
				-121.319542 °	-121.320200 °
DWR ID	DWR_RD0017_02_s _ 2016_78				

Comment Code

A1 : Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

Grouting rodent holes on landward slope

No Photos

LM Start	**5.07**	Rating **	M	Issue No.	**612**
LM End	**5.07**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.853613 °	37.853613 °
				-121.319666 °	-121.319666 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:45998
DS_ID:35
EP_NO: 15118
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 05/19/2015 Erosion is still present on waterward side--wet soil along pipe alignment (where pipe seciton is exposed). Burrow activity is also present at this location. Recommend contacting owner to address burrow activity. 02/04/2010 Erosion visible on waterward side visible at pipe daylight. Need to contact owner to address potential pipe failure. Need to determine status of crossing.
FIELD_STRUCT_DESC: 14 inch diameter irrigation pipeline through levee. Invert of pipe is 4.49 feet below levee crown. Siphon breaker on landward shoulder. Pump on platform in channel, wooden walkway extends from pump platform to waterward slope, concrete stairway extends from walkway to waterward shoulder and a standpipe is located 2 feet from the landward toe. (Permit No. 15118-1989)
FS Date: 5/19/2015

Photo 1 of 2 : UCIP_FA_2016_45998_74483.jpg

(2015) View of waterward side--erosion at pipe daylight.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**5.07**	Rating **	M	Issue No.	**612 (cont)**
LM End	**5.07**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.853613 °	37.853613 °
				-121.319666 °	-121.319666 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:45998
DS_ID:35
EP_NO: 15118
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 05/19/2015 Erosion is still present on waterward side--wet soil along pipe alignment (where pipe seciton is exposed). Burrow activity is also present at this location. Recommend contacting owner to address burrow activity. 02/04/2010 Erosion visible on waterward side visible at pipe daylight. Need to contact owner to address potential pipe failure. Need to determine status of crossing.
FIELD_STRUCT_DESC: 14 inch diameter irrigation pipeline through levee. Invert of pipe is 4.49 feet below levee crown. Siphon breaker on landward shoulder. Pump on platform in channel, wooden walkway extends from pump platform to waterward slope, concrete stairway extends from walkway to waterward shoulder and a standpipe is located 2 feet from the landward toe. (Permit No. 15118-1989)
FS Date: 5/19/2015

Photo 2 of 2 : UCIP_FA_2016_45998_74485.jpg

(2015) Wet ground along pipe alignment on waterward side.

LM Start	**5.41**	Rating **	M	Issue No.	**582**
LM End	**5.41**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.851319 °	37.851319 °
				-121.321336 °	-121.321336 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40669
DS_ID:36
EP_NO: 15119
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to contact owner to determine status.
FIELD_STRUCT_DESC: 16 inch diameter pipe through levee. Invert of pipe is 5.11 feet below levee crown. Slant pump on riverbank, standpipe located 30 feet from the landward toe. Ramp on waterward slope. (Permit No. 15119-1990). This pipe was installed during the levee work approved under encroachment number 15014.
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40669_72239.jpg

Overview of levee crown at crossing.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

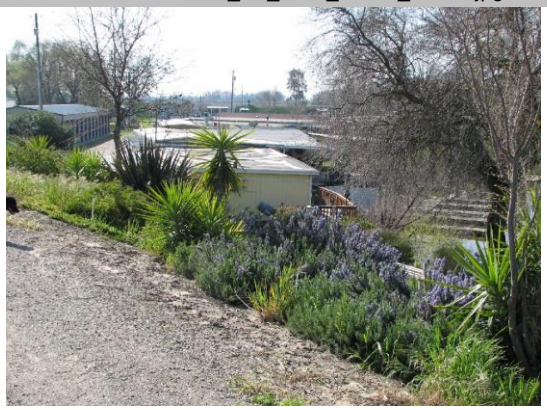
LM Start	**5.41**	Rating **	M	Issue No.	**582 (cont)**
LM End	**5.41**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.851319 °	37.851319 °
				-121.321336 °	-121.321336 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40669
DS_ID:36
EP_NO: 15119
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to contact owner to determine status.
FIELD_STRUCT_DESC: 16 inch diameter pipe through levee. Invert of pipe is 5.11 feet below levee crown. Slant pump on riverbank, standpipe located 30 feet from the landward toe. Ramp on waterward slope. (Permit No. 15119-1990). This pipe was installed during the levee work approved under encroachment number 15014.
FS Date: 2/4/2010

Photo 2 of 2 : UCIP_FA_2016_40669_72238.jpg



View of waterward side.

LM Start	**5.48**	Rating **	C	Issue No.	**568**
LM End	**5.48**	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.850652 °	37.850652 °
				-121.320498 °	-121.320498 °
DWR ID	DWR_RD0017_02_s _ 2012_568				

Comment Code

T4 : Trim trees over roadway to at least 12 feet above ground level.

Inspector Comment

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**5.52**	Rating **	A/W	Issue No.	**76**
LM End	**5.52**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.850118 °	37.850118 °
				-121.320188 °	-121.320188 °
DWR ID	DWR_RD0017_02_s _ 2012_76				

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Rodent holes has been backfilled, but should be monitored.

No Photos

LM Start	**6.14**	Rating **	M	Issue No.	**583**
LM End	**6.14**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.844392 °	37.844392 °
				-121.320753 °	-121.320753 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40672
DS_ID:38
EP_NO: 15121
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe section at waterward toe is missing wall. Need to coordinate with owner to determine integrity of pipe section through levee. This crossing is a good candidate for video inspection to determine internal condition of pipe.
FIELD_STRUCT_DESC: 2 of 2. 10 inch steel stormdrain through the levee 4.0-feet below crown. (Permit No. 15121-1991) This pipe was installed during the levee work approved under encroachment number 15014.
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40672_72270.jpg

View of pipe section on waterward side.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**6.14**	Rating **	M	Issue No.	**583 (cont)**
LM End	**6.14**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.844392 °	37.844392 °
				-121.320753 °	-121.320753 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40672
DS_ID:38
EP_NO: 15121
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe section at waterward toe is missing wall. Need to coordinate with owner to determine integrity of pipe section through levee. This crossing is a good candidate for video inspection to determine internal condition of pipe.
FIELD_STRUCT_DESC: 2 of 2. 10 inch steel stormdrain through the levee 4.0-feet below crown. (Permit No. 15121-1991) This pipe was installed during the levee work approved under encroachment number 15014.
FS Date: 2/4/2010

Photo 2 of 2 : UCIP_FA_2016_40672_72267.jpg

View of waterward side.

LM Start	**6.74**	Rating **	C	Issue No.	**79**
LM End	**6.74**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.838810 °	37.838810 °
				-121.316600 °	-121.316600 °
DWR ID	DWR_RD0017_02_s _ 2015_79				

Comment Code

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

Inspector Comment

Removed cactus from waterward slope.

No Photos

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

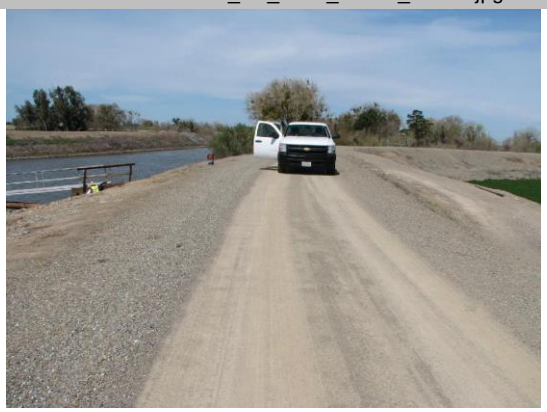
LM Start	**6.79**	Rating **	M	Issue No.	**586**
LM End	**6.79**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.837995 °	37.837995 °
				-121.316566 °	-121.316566 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40677
DS_ID:40
EP_NO: 15123
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Landowner mentioned power line was stolen crossing was non-functional during inspection. Potential erosion underneath walkway--need to confirm lose soil. Need to contact owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment.
FIELD_STRUCT_DESC: 16 inch diameter pipe through levee. Invert of pipe is 4.03 feet below the levee crown. Siphon breaker on waterward shoulder. Ramp on platform in channel, walkway from pump platform to waterward slope, standpipe located at landward berm toe. (Permit No. 15123-1989)
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40677_72289.jpg



View of levee crown at crossing.

LM Start	**6.79**	Rating **	M	Issue No.	**586 (cont)**
LM End	**6.79**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_40677_72294.jpg

Siphon breaker located on waterward side.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

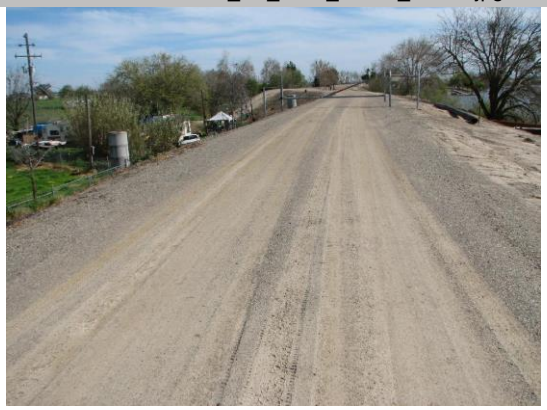
LM Start	**7.17**	Rating **	M	Issue No.	**587**
LM End	**7.17**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.833426 °	37.833426 °
				-121.313023 °	-121.313023 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40679
DS_ID:42
EP_NO: 15077
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Surface erosion on waterward slope. Abandoned pipe section left on waterward slope. Need to contact owner to obtain addtional information about crossing.
FIELD_STRUCT_DESC: 12 inch diameter irrigation pipeline through levee. Invert of pipe 3.67 feet below levee crown. Siphon breaker on landward shoulder. Pump on platform in channel, walkway from pump platform to waterward shoulder. Standpipe located 15 feet from the landward toe. (Permit No. 15077-1989)
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40679_72307.jpg



Overview of levee crown at crossing.

LM Start	**7.17**	Rating **	M	Issue No.	**587 (cont)**
LM End	**7.17**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_40679_72306.jpg

CMP riser located on landward slope.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**7.20**	Rating **	M	Issue No.	**588**
LM End	**7.20**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.833088 °	37.833088 °
				-121.312676 °	-121.312676 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40680
DS_ID:43
EP_NO: 15078
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Crossing is non-functional recommend contacting owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment.
FIELD_STRUCT_DESC: 4 inch diameter pipeline through levee. Invert of pipe is 3.22 feet below levee crown. Siphon breaker on landward shoulder. Pump on waterward berm. (Permit No. 15078-1989)
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40680_72314.jpg

Overview of levee crown at crossing.

LM Start	**7.20**	Rating **	M	Issue No.	**588 (cont)**
LM End	**7.20**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_40680_72313.jpg

Abandoned boat protecting pump station located on waterward side.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**7.25**	Rating **	C	Issue No.	**18**
LM End	**7.25**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.832612 °	37.832612 °
				-121.312093 °	-121.312093 °
DWR ID	DWR_RD0017_02_s _ 2013_18				

Comment Code

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

Inspector Comment

No Photos

LM Start	**7.42**	Rating **	C	Issue No.	**4**
LM End	**7.42**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.830350 °	37.830350 °
				-121.310880 °	-121.310880 °
DWR ID	DWR_RD0017_02_s _ 2012_4				

Comment Code

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

Inspector Comment

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**7.43**	Rating **	M	Issue No.	**589**
LM End	**7.43**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.830158 °	37.830158 °
				-121.310915 °	-121.310915 °
DWR ID					

Comment Code

Inspector Comment

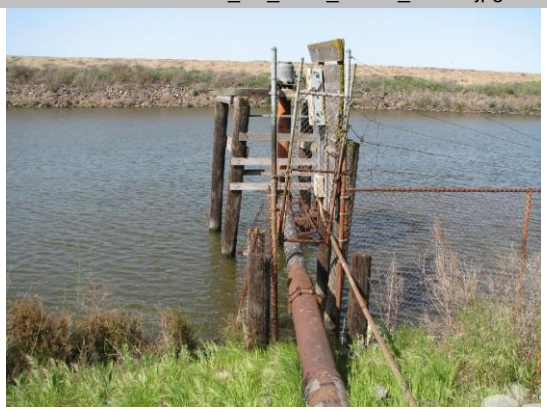
FS_ID:40681
DS_ID:44
EP_NO: 15079
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use.
FIELD_STRUCT_DESC: 14 inch pipeline through levee. Invert of pipe is 4.28 feet below levee crown. Siphon breaker on waterward shoulder. Pump on platform in channel, walkway from pump platform to the top of the riverbank, standpipe located 12 feet from landward tee. (Permit No. 15079-1990)
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40681_72325.jpg

View of waterward side.

LM Start	**7.43**	Rating **	M	Issue No.	**589 (cont)**
LM End	**7.43**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_40681_72328.jpg



Pipe, pump, and platform located on waterward side.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**7.44**	Rating **	M	Issue No.	**590**
LM End	**7.44**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.830115 °	37.830115 °
				-121.310908 °	-121.310908 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40682
DS_ID:99
EP_NO: 17643
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to coordinate with owner to determine when the other 3 crossings will become online.
FIELD_STRUCT_DESC: 36-inch steel lined and coated stormdrain pipe through the levee 2-feet below the crown. Concrete headwall on WS toe and a tidal flex valve on outlet of pipe. Structure was designed for 4 crossings however only 1 crossing is active (Permit No. 17643, 2005).
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40682_72322.jpg

Overview of levee crown at crossing.

LM Start	**7.44**	Rating **	M	Issue No.	**590 (cont)**
LM End	**7.44**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_40682_72321.jpg

Relief valve located on landward shoulder.

* 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

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**7.45**	Rating **	M	Issue No.	**591**
LM End	**7.45**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.829922 °	37.829922 °
				-121.310865 °	-121.310865 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40683
DS_ID:284
EP_NO: 15079
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Potential leak at standpipe--unable to confirm if crossing is operable. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use.
FIELD_STRUCT_DESC: 2 of 2. 10 inch pipe also referenced as 478+22, old 6 inch pipe was removed per encroachment recordation.
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40683_72333.jpg

Overview of levee crown at crossing.

LM Start	**7.45**	Rating **	M	Issue No.	**591 (cont)**
LM End	**7.45**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_40683_72332.jpg

CMP riser located on waterward shoulder.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**7.57**	Rating **	M	Issue No.	**592**
LM End	**7.57**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.828258 °	37.828258 °
				-121.310003 °	-121.310003 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40684
DS_ID:97
EP_NO: 15080
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe appears no longer in use. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use.
FIELD_STRUCT_DESC: 6 inch steel irrigation pipe through the levee at 4.43-feet below crown. Pump on WS slope, siphon breaker on WS shoulder, and standpipe on LS toe (Permit No. 15080-1989).
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40684_72340.jpg

Overview of levee crown at crossing.

LM Start	**7.57**	Rating **	M	Issue No.	**592 (cont)**
LM End	**7.57**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_40684_72342.jpg

View of waterward side.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**7.58**	Rating **	M	Issue No.	**25**
LM End	**7.60**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.828095 °	37.827920 °
				-121.309945 °	-121.309847 °
DWR ID	DWR_RD0017_02_s _ 2012_25				

Comment Code

V4 : Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Photo 1 of 1 : FA_2016_RD0017_304_25_20160929_00013.jpg

Elderberry blocking view of landside slope and toe.

LM Start	**7.71**	Rating **	M	Issue No.	**593**
LM End	**7.71**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.826333 °	37.826333 °
				-121.309495 °	-121.309495 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40685
DS_ID:98
EP_NO: 15081
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Erosion present on waterward toe underneath piles. Need to coordinate with owner to address issue on waterward side and to determine status of crossing.
FIELD_STRUCT_DESC: 16 inch diameter asphalt coated and wrapped steel irrigaiton pipe through the levee 2.6-feet below the crown. Siphon breaker located on landward side. Stand pipe located at landward toe. Pump on Platform at WS toe Permit No. 15081, 1989.
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40685_72351.jpg

Overview of levee crown at pipe crossing.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**7.71**	Rating **	M	Issue No.	**593 (cont)**
LM End	**7.71**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.826333 °	37.826333 °
				-121.309495 °	-121.309495 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40685
DS_ID:98
EP_NO: 15081
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Erosion present on waterward toe underneath piles. Need to coordinate with owner to address issue on waterward side and to determine status of crossing.
FIELD_STRUCT_DESC: 16 inch diameter asphalt coated and wrapped steel irrigaiton pipe through the levee 2.6-feet below the crown. Siphon breaker located on landward side. Stand pipe located at landward toe. Pump on Platform at WS toe Permit No. 15081, 1989.
FS Date: 2/4/2010

Photo 2 of 2 : UCIP_FA_2016_40685_72350.jpg

Pipe daylight on waterward side.

LM Start	**7.73**	Rating **	M	Issue No.	**594**
LM End	**7.73**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.826031 °	37.826031 °
				-121.309569 °	-121.309569 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40686
DS_ID:804
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Unable to find any appurtenances need to coordinate with owner to obtain additional informaiton about crossing. Standpipe appears abandoned. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use.
FIELD_STRUCT_DESC: Standpipe located on levee crown.
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40686_72353.jpg

Standpipe located on levee crown.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**7.73**	Rating **	M	Issue No.	**594 (cont)**
LM End	**7.73**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.826031 °	37.826031 °
				-121.309569 °	-121.309569 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40686
DS_ID:804
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Unable to find any appurtenances need to coordinate with owner to obtain additional informaiton about crossing. Standpipe appears abandoned. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use.
FIELD_STRUCT_DESC: Standpipe located on levee crown.
FS Date: 2/4/2010

Photo 2 of 2 : UCIP_FA_2016_40686_72352.jpg

View of waterward side.

LM Start	**7.75**	Rating **	M	Issue No.	**595**
LM End	**7.75**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.825857 °	37.825857 °
				-121.309574 °	-121.309574 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40687
DS_ID:100
EP_NO: 15082
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pumps were removed and no power connection visible. Crossing appears abandoned. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use.
FIELD_STRUCT_DESC: 1 of 2. 20 inch asphalt coated and wrapped steel irrigation pipe through levee 2.1-feet below the crown. Pump missing from platform on waterward side. Siphon breaker inside 24-inch CMP riser on LS shoulder (Permit No. 15082, 1982).
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40687_72357.jpg

View of waterward side.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**7.75**	Rating **	M	Issue No.	**595 (cont)**
LM End	**7.75**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.825857 °	37.825857 °
				-121.309574 °	-121.309574 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40687
DS_ID:100
EP_NO: 15082
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pumps were removed and no power connection visible. Crossing appears abandoned. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use.
FIELD_STRUCT_DESC: 1 of 2. 20 inch asphalt coated and wrapped steel irrigation pipe through levee 2.1-feet below the crown. Pump missing from platform on waterward side. Siphon breaker inside 24-inch CMP riser on LS shoulder (Permit No. 15082, 1982).
FS Date: 2/4/2010

Photo 2 of 2 : UCIP_FA_2016_40687_72356.jpg

View of waterward side--no pumps present anymore.

LM Start	**7.75**	Rating **	M	Issue No.	**596**
LM End	**7.75**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.825828 °	37.825828 °
				-121.309569 °	-121.309569 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40688
DS_ID:288
EP_NO: 15082
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pump was removed and no power connection visible. Crossing appears abandoned. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use.
FIELD_STRUCT_DESC: 2 of 2. 16- inch asphalt coated and wrapped steel irrigation pipe through levee 2.6-feet below the crown. Pump missing from platform on waterward side. Siphon breaker inside 24-inch CMP riser on LS shoulder. 1.5-inch galvanized iron electrical conduit at same location (Permit No. 15082, 1982).
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40688_72361.jpg

View of pipe on waterward side.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

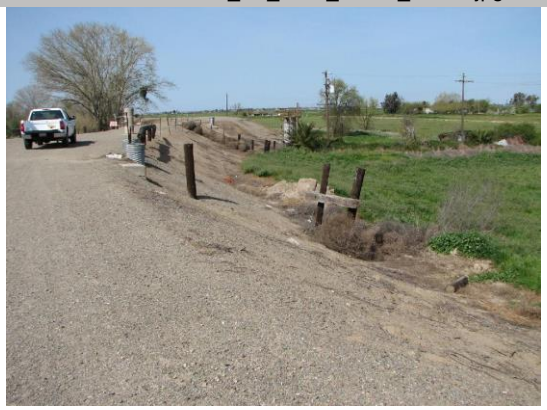
LM Start	**7.75**	Rating **	M	Issue No.	**596 (cont)**
LM End	**7.75**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.825828 °	37.825828 °
				-121.309569 °	-121.309569 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40688
DS_ID:288
EP_NO: 15082
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pump was removed and no power connection visible. Crossing appears abandoned. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use.
FIELD_STRUCT_DESC: 2 of 2. 16- inch asphalt coated and wrapped steel irrigation pipe through levee 2.6-feet below the crown. Pump missing from platform on waterward side. Siphon breaker inside 24-inch CMP riser on LS shoulder. 1.5-inch galvanized iron electrical conduit at same location (Permit No. 15082, 1982).
FS Date: 2/4/2010

Photo 2 of 2 : UCIP_FA_2016_40688_72360.jpg



View of landward side.

LM Start	**7.89**	Rating **	M	Issue No.	**597**
LM End	**7.89**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.823987 °	37.823987 °
				-121.309841 °	-121.309841 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40689
DS_ID:805
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Only siphon breakers were found on landward shoulder no other appurtenances were found. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use.
FIELD_STRUCT_DESC: Siphon breaker located on landward shoulder.
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40689_72367.jpg

View of levee crown at crossing.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**7.89**	Rating **	M	Issue No.	**597 (cont)**
LM End	**7.89**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.823987 °	37.823987 °
				-121.309841 °	-121.309841 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40689
DS_ID:805
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Only siphon breakers were found on landward shoulder no other appurtenances were found. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements. Unable to determine if crossing is in use.
FIELD_STRUCT_DESC: Siphon breaker located on landward shoulder.
FS Date: 2/4/2010

Photo 2 of 2 : UCIP_FA_2016_40689_72366.jpg

View of landward side.

LM Start	**8.93**	Rating **	C	Issue No.	**81**
LM End	**8.93**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.818792 °	37.818792 °
				-121.314824 °	-121.314824 °
DWR ID	DWR_RD0017_02_s _ 2016_81				

Comment Code

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

Inspector Comment

No Photos

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**8.99**	Rating **	U	Issue No.	**626**
LM End	**8.99**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.818123 °	37.818123 °
				-121.314272 °	-121.314272 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49999
DS_ID:285
EP_NO: 15083
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 7/12/2016 Same as last inspection--WS pipe section deteriorated. Per Rick Toy, KSN-District Engineer, this crossing is currently owned by the City of Lathrop. Need to coordinate with the City of Lathrop to submit name change to the CVFPB and for the City to provide future use for this crossing. Recommend internal integrity inspection of section of the pipe through the levee. (DWR UCIP - omagana)5/21/2015 Pipe is still in same condition. Need to contact KSN, LMA engineering firm, to determine update on crossing. (DWR UCIP - omagana)2/04/2010 Pipe wall has corroded through--wall missing from pipe section located on waterward side. Recommend investigating the pipe integrity through levee section. Damage to pipe has eroded the levee slope on waterward side. Recommend LMA superintendent contact owner to stop using crossing and coordinate with CVFPB to address pipe leak. Owner will need to coordinate with DWR inspector and CVFPB. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 2 of 2. 12-inch irrigation pipe through levee, 2.69 feet below crown. Siphon breaker is located on the waterside (WS) shoulder. Pump is located in the irrigation ditch approximately 50 feet from landside (LS) toe. Pipe was installed as part of the re-shaping of RD17 project levees in 1989. The re-shaping of the levees was to increase levee elevations and provide freeboard above 100-year stages in both the San Joaquin River and French Camp Slough; work was authorized and documented under Permit No. 15014. (Permit No. 15083, 1989 - I. N. Robinson, Jr.; levee re-shaping authorized under Permit No. 15014, 1989 - Reclamation District 17) [Additional Reference(s): DWR Levee Log, 1981 and 2003]
FS Date: 7/12/2016

Photo 1 of 2 : UCIP_FA_2016_49999_75741.jpg

View of WS.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**8.99**	Rating **	U	Issue No.	**626 (cont)**
LM End	**8.99**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.818123 °	37.818123 °
				-121.314272 °	-121.314272 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:49999
DS_ID:285
EP_NO: 15083
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 7/12/2016 Same as last inspection--WS pipe section deteriorated. Per Rick Toy, KSN-District Engineer, this crossing is currently owned by the City of Lathrop. Need to coordinate with the City of Lathrop to submit name change to the CVFPB and for the City to provide future use for this crossing. Recommend internal integrity inspection of section of the pipe through the levee. (DWR UCIP - omagana)5/21/2015 Pipe is still in same condition. Need to contact KSN, LMA engineering firm, to determine update on crossing. (DWR UCIP - omagana)2/04/2010 Pipe wall has corroded through--wall missing from pipe section located on waterward side. Recommend investigating the pipe integrity through levee section. Damage to pipe has eroded the levee slope on waterward side. Recommend LMA superintendent contact owner to stop using crossing and coordinate with CVFPB to address pipe leak. Owner will need to coordinate with DWR inspector and CVFPB. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 2 of 2. 12-inch irrigation pipe through levee, 2.69 feet below crown. Siphon breaker is located on the waterside (WS) shoulder. Pump is located in the irrigation ditch approximately 50 feet from landside (LS) toe. Pipe was installed as part of the re-shaping of RD17 project levees in 1989. The re-shaping of the levees was to increase levee elevations and provide freeboard above 100-year stages in both the San Joaquin River and French Camp Slough; work was authorized and documented under Permit No. 15014. (Permit No. 15083, 1989 - I. N. Robinson, Jr.; levee re-shaping authorized under Permit No. 15014, 1989 - Reclamation District 17) [Additional Reference(s): DWR Levee Log, 1981 and 2003]
FS Date: 7/12/2016

Photo 2 of 2 : UCIP_FA_2016_49999_75740.jpg

WS-pipe still damage, pipe wall section missing.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**9.09**	Rating **	M	Issue No.	**621**
LM End	**9.09**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.816767 °	37.816767 °
				-121.314681 °	-121.314681 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:45453
DS_ID:48
EP_NO: 15084
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Need to contact owner to determine disposition of pipe. No record of removal has been found and status of crossing needs to be determined.
FIELD_STRUCT_DESC: 8 inch diameter pipe through levee. Invert of pipe is 3.47 feet below levee crown. (Siphon breaker on landward shoulder. Slant pump on waterward slope, concrete stairway from pump to waterward shoulder, standpipe located 20 feet from the landward toe): Not found. Only indicator is a 1.5-inch PVC electrical conduit visible on WS slope 6-feet below the crown. (Permit No. 15084-1989)
FS Date: 5/21/2015

Photo 1 of 2 : UCIP_FA_2016_45453_74112.jpg

Electrical conduit only appurtanance found on WS slope.

LM Start	**9.09**	Rating **	M	Issue No.	**621 (cont)**
LM End	**9.09**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_45453_74113.jpg

1.5-inch electrical conduit only appurtanance still visible on WS slope.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**9.29**	Rating **	M	Issue No.	**9**
LM End	**9.29**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.815270 °	37.815270 °
				-121.317692 °	-121.317692 °
DWR ID	DWR_RD0017_02_s _ 2012_9				

Comment Code

V4 : Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Bamboo at landside toe.

Photo 1 of 1 : FA_2016_RD0017_304_9_20160929_00010.jpg

Looking east at bamboo at landward toe.

LM Start	**10.64**	Rating **	M	Issue No.	**80**
LM End	**10.64**	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.805787 °	37.805787 °
				-121.322022 °	-121.322022 °
DWR ID	DWR_RD0017_02_s _ 2015_80				

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 Deficiancy
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**11.31**	Rating **	M	Issue No.	**603**
LM End	**11.31**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.803410 °	37.803410 °
				-121.312031 °	-121.312031 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40695
DS_ID:51
EP_NO: 15055
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe is not connected on waterward side. Crossing is non-functional recommend contacting owner to determine status of crossing. If crossing is no longer used need to coordinate with CVFPB for proper abandonment.
FIELD_STRUCT_DESC: 16 inch diameter pipe through levee. Invert pipe is 3.91 feet below levee crown. Siphon breaker on landward shoulder. Slant pump on waterward slope, standpipe located 11 feet from the landward toe. (Permit No. 15055-1989)
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40695_72420.jpg

Overview of levee crown at crossing.

LM Start	**11.31**	Rating **	M	Issue No.	**603 (cont)**
LM End	**11.31**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_40695_72418.jpg

View of waterward side.

* 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

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**11.35**	Rating **	M	Issue No.	**604**
LM End	**11.35**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.802921 °	37.802921 °
				-121.311947 °	-121.311947 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40696
DS_ID:103
EP_NO: 17792
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Surface erosion on waterward slope--Need to contact owner.
FIELD_STRUCT_DESC: 1 of 6. 30-inch diameter drainage pipe through levee at unknown depth. Struction is part of Lathrop City Stormwater Pump Station 112. Station consists 6 drainage pipes, pump station, air release valves, and concrete headwall. Air release valves located inside risers are located on landward shoulder on top of concrete pad. Concrete headwall and gates located on waterward side. (Permit No. 17792, 2005)
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40696_72440.jpg

Overview of levee crown at crossing.

LM Start	**11.35**	Rating **	M	Issue No.	**604 (cont)**
LM End	**11.35**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_40696_72448.jpg

View of waterward side geotech fabric damage along slope.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**11.35**	Rating **	M	Issue No.	**605**
LM End	**11.35**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.802904 °	37.802904 °
				-121.311946 °	-121.311946 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40697
DS_ID:473
EP_NO: 17792
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Surface erosion on waterward slope--need to contact owner.
FIELD_STRUCT_DESC: 2 of 6. 30-inch diameter drainage pipe through levee at unknown depth. Struction is part of Lathrop City Stormwater Pump Station 112. Station consists 6 drainage pipes, pump station, air release valves, and concrete headwall. Air release valves located inside risers are located on landward shoulder on top of concrete pad. Concrete headwall and gates located on waterward side. (Permit No. 17792, 2005)
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40697_72452.jpg

Overview of levee crown at crossings.

LM Start	**11.35**	Rating **	M	Issue No.	**605 (cont)**
LM End	**11.35**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_40697_72453.jpg

Geotech fabric damage along waterward berm.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**11.35**	Rating **	M	Issue No.	**606**
LM End	**11.35**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.802889 °	37.802889 °
				-121.311947 °	-121.311947 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40698
DS_ID:474
EP_NO: 17792
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Surface erosion on waterward slope--need to contact owner.
FIELD_STRUCT_DESC: 3 of 6. 30-inch diameter drainage pipe through levee at unknown depth. Struction is part of Lathrop City Stormwater Pump Station 112. Station consists 6 drainage pipes, pump station, air release valves, and concrete headwall. Air release valves located inside risers are located on landward shoulder on top of concrete pad. Concrete headwall and gates located on waterward side. (Permit No. 17792, 2005)
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40698_72475.jpg

Overview of levee crown at crossings.

LM Start	**11.35**	Rating **	M	Issue No.	**606 (cont)**
LM End	**11.35**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_40698_72477.jpg

View of waterward side.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**11.35**	Rating **	M	Issue No.	**607**
LM End	**11.35**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.802869 °	37.802869 °
				-121.311948 °	-121.311948 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40699
DS_ID:475
EP_NO: 17792
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Surface erosion on waterward slope--need to contact owner.
FIELD_STRUCT_DESC: 4 of 6. 30-inch diameter drainage pipe through levee at unknown depth. Struction is part of Lathrop City Stormwater Pump Station 112. Station consists 6 drainage pipes, pump station, air release valves, and concrete headwall. Air release valves located inside risers are located on landward shoulder on top of concrete pad. Concrete headwall and gates located on waterward side. (Permit No. 17792, 2005)
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40699_72458.jpg

City of Lathrop Stormwater Pump Station 112.

LM Start	**11.35**	Rating **	M	Issue No.	**607 (cont)**
LM End	**11.35**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_40699_72457.jpg

View of landward side.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**11.35**	Rating **	M	Issue No.	**608**
LM End	**11.35**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.802854 °	37.802854 °
				-121.311948 °	-121.311948 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40700
DS_ID:476
EP_NO: 17792
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Surface erosion on waterward slope--need to contact owner.
FIELD_STRUCT_DESC: 5 of 6. 30-inch diameter drainage pipe through levee at unknown depth. Struction is part of Lathrop City Stormwater Pump Station 112. Station consists 6 drainage pipes, pump station, air release valves, and concrete headwall. Air release valves located inside risers are located on landward shoulder on top of concrete pad. Concrete headwall and gates located on waterward side. (Permit No. 17792, 2005)
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40700_72462.jpg

Overview of levee crown at crossings.

LM Start	**11.35**	Rating **	M	Issue No.	**608 (cont)**
LM End	**11.35**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_40700_72467.jpg

View of waterward side.

* 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

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**11.35**	Rating **	M	Issue No.	**609**
LM End	**11.35**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.802837 °	37.802837 °
				-121.311949 °	-121.311949 °
DWR ID					

Comment Code

Inspector Comment

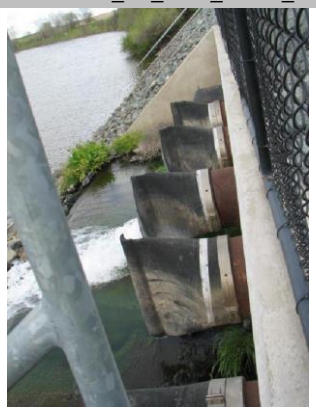
FS_ID:40701
DS_ID:477
EP_NO: 17792
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Surface erosion on waterward slope--need to contact owner.
FIELD_STRUCT_DESC: 6 of 6. 30-inch diameter drainage pipe through levee at unknown depth. Struction is part of Lathrop City Stormwater Pump Station 112. Station consists 6 drainage pipes, pump station, air release valves, and concrete headwall. Air release valves located inside risers are located on landward shoulder on top of concrete pad. Concrete headwall and gates located on waterward side. (Permit No. 17792, 2005)
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40701_72470.jpg

Overview of levee crown at crossings.

LM Start	**11.35**	Rating **	M	Issue No.	**609 (cont)**
LM End	**11.35**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_40701_72469.jpg



Outlet concrete headwall and gates on waterward toe.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**11.43**	Rating **	M	Issue No.	**616**
LM End	**11.43**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.801683 °	37.801683 °
				-121.312001 °	-121.312001 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:45463
DS_ID:53
EP_NO: 15125
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Pipe appears abandoned as vent is partially burried and pipe not visilbe. If abandoned, it should be done so properly.
FIELD_STRUCT_DESC: *REMOVED* 7 inch diameter pipe through the levee 3.59-feet below levee crown. Siphon breaker located on landward shoulder. Air vent found on WS slope (Permit No. 15125-1989).
FS Date: 5/21/2015

Photo 1 of 2 : UCIP_FA_2016_45463_74122.jpg

Vent visible on WS slope. Found partially burried.

LM Start	**11.43**	Rating **	M	Issue No.	**616 (cont)**
LM End	**11.43**	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_45463_74121.jpg

Vent visible on WS slope. Found partially burried.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**11.63**	Rating **	M	Issue No.	**622**
LM End	**11.63**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.798766 °	37.798766 °
				-121.312135 °	-121.312135 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:45716
DS_ID:286
EP_NO: 15053
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: Need to determine disposition of pipe.
FIELD_STRUCT_DESC: 8-inch diameter pipe through levee. Invert of pipe is 4.33 feet below levee crown. Siphon breaker on waterward shoulder. Pump on waterward berm, standpipe at bottom of direct approach ramp. (Permit No.15053-1990)
FS Date: 3/25/2010

No Photos

LM Start	**12.14**	Rating **	M	Issue No.	**610**
LM End	**12.14**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.793831 °	37.793831 °
				-121.305989 °	-121.305989 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40702
DS_ID:806
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: No pipe found during site visit only air valve and power meter. Dense vegetation along waterward slope recommend clearing vegetation from slope to conduct proper pipe inspection. If cossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements.
FIELD_STRUCT_DESC: *REMOVED* 20-inch Steel drain pipe through the levee 5-feet below the crown. Siphon breaker in steel riser on WS shoulder and a flap gate on the WS toe Permit No. 3799, 1961. Pipe removed under Permit No. 15318, 1989. Drainage or Irrigation Structure referenced in O&M manual (HLM 12.16). (USACE O&M, 1963)
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40702_72481.jpg

Overview of levee crown at crossing.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**12.14**	Rating **	M	Issue No.	**610 (cont)**
LM End	**12.14**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.793831 °	37.793831 °
				-121.305989 °	-121.305989 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40702
DS_ID:806
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: No pipe found during site visit only air valve and power meter. Dense vegetation along waterward slope recommend clearing vegetation from slope to conduct proper pipe inspection. If cossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements.
FIELD_STRUCT_DESC: *REMOVED* 20-inch Steel drain pipe through the levee 5-feet below the crown. Siphon breaker in steel riser on WS shoulder and a flap gate on the WS toe Permit No. 3799, 1961. Pipe removed under Permit No. 15318, 1989. Drainage or Irrigation Structure referenced in O&M manual (HLM 12.16). (USACE O&M, 1963)
FS Date: 2/4/2010

Photo 2 of 2 : UCIP_FA_2016_40702_72480.jpg

View of waterward side.

LM Start	**12.14**	Rating **	M	Issue No.	**617**
LM End	**12.14**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.793831 °	37.793831 °
				-121.305989 °	-121.305989 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:45464
DS_ID:56
EP_NO: 15318
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Crossings appears to be abandoned. Need to contact owner to determine status of crossing. If abandoned, it should be done so properly.
FIELD_STRUCT_DESC: 20 inch diameter steel storm drain discharge pipeline through levee 3.4-feet below levee crown. Air vent in 12-inch steel riser found on the landward shoulder. Electric service riser on waterward berm has been removed, Permit No. 15318, 1989.
FS Date: 5/21/2015

Photo 1 of 2 : UCIP_FA_2016_45464_74125.jpg

Vent in steel riser on LS shoulder.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**12.14**	Rating **	M	Issue No.	**617 (cont)**
LM End	**12.14**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.793831 °	37.793831 °
				-121.305989 °	-121.305989 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:45464
DS_ID:56
EP_NO: 15318
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Crossings appears to be abandoned. Need to contact owner to determine status of crossing. If abandoned, it should be done so properly.
FIELD_STRUCT_DESC: 20 inch diameter steel storm drain discharge pipeline through levee 3.4-feet below levee crown. Air vent in 12-inch steel riser found on the landward shoulder. Electric service riser on waterward berm has been removed, Permit No. 15318, 1989.
FS Date: 5/21/2015

Photo 2 of 2 : UCIP_FA_2016_45464_74124.jpg

View of LS at crossing.

LM Start	**12.14**	Rating **	M	Issue No.	**569**
LM End	**12.14**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.793779 °	37.793779 °
				-121.305984 °	-121.305984 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40703
DS_ID:799
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to contact owner to determine status of crossing and obtain additional information about crossing (permit and install date).
FIELD_STRUCT_DESC: 1 of 2. 48-inch steel drainage pipe through the levee 2.5-feet below the crown. Siphon breaker on LS shoulder. Concrete "U" shaped headwall on WS toe with flap gate (Permit No. 15845, 1993). 8-4 inch steel coated scheduled 40 pipes located on waterward shoulder about 6 inch cover.
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40703_72487.jpg

Overview of levee crown at crossings.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**12.14**	Rating **	M	Issue No.	**569 (cont)**
LM End	**12.14**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.793779 °	37.793779 °
				-121.305984 °	-121.305984 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40703
DS_ID:799
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to contact owner to determine status of crossing and obtain additional information about crossing (permit and install date).
FIELD_STRUCT_DESC: 1 of 2. 48-inch steel drainage pipe through the levee 2.5-feet below the crown. Siphon breaker on LS shoulder. Concrete "U" shaped headwall on WS toe with flap gate (Permit No. 15845, 1993). 8-4 inch steel coated scheduled 40 pipes located on waterward shoulder about 6 inch cover.
FS Date: 2/4/2010

Photo 2 of 2 : UCIP_FA_2016_40703_72485.jpg

View of landward side, photo 1 of 2.

LM Start	**12.14**	Rating **	M	Issue No.	**611**
LM End	**12.14**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.793766 °	37.793766 °
				-121.305986 °	-121.305986 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:45993
DS_ID:800
EP_NO: 15845
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to contact owner to determine status of crossing and obtain additional information about crossing (permit and install date).
FIELD_STRUCT_DESC: 2 of 2. 12 inch drainage pipe through levee at unknown depth. Concrete "U" wall located on waterward side. Flap gate on waterward side. 8-4 inch steel coated scheduled 40 pipes located on waterward shoulder about 6 inch cover. Seepage berm located on landward side.
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_45993_72497.jpg

Overview of levee crown at crossing.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**12.14**	Rating **	M	Issue No.	**611 (cont)**
LM End	**12.14**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.793766 °	37.793766 °
				-121.305986 °	-121.305986 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:45993
DS_ID:800
EP_NO: 15845
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to contact owner to determine status of crossing and obtain additional information about crossing (permit and install date).
FIELD_STRUCT_DESC: 2 of 2. 12 inch drainage pipe through levee at unknown depth. Concrete "U" wall located on waterward side. Flap gate on waterward side. 8-4 inch steel coated scheduled 40 pipes located on waterward shoulder about 6 inch cover. Seepage berm located on landward side.
FS Date: 2/4/2010

Photo 2 of 2 : UCIP_FA_2016_45993_72495.jpg

View of waterward side.

LM Start	**12.41**	Rating **	M	Issue No.	**570**
LM End	**12.41**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.789976 °	37.789976 °
				-121.306853 °	-121.306853 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40706
DS_ID:807
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe disconnected on waterward side. Need to contact owner to determine status of crossing. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements.
FIELD_STRUCT_DESC: 8 inch pipe through levee 3.2-feet below the crown. Pump on WS toe and a siphon breaker on the LS shoulder (Permit No. 15049, 1989). Permit was for 6-inch pipe.
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40706_72509.jpg

Overview of levee crown at crossing.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**12.41**	Rating **	M	Issue No.	**570 (cont)**
LM End	**12.41**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.789976 °	37.789976 °
				-121.306853 °	-121.306853 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40706
DS_ID:807
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe disconnected on waterward side. Need to contact owner to determine status of crossing. If crossing is no longer in use owner will need to coordinate with DWR inspector and CVFPB to remove according to Title 23 requirements.
FIELD_STRUCT_DESC: 8 inch pipe through levee 3.2-feet below the crown. Pump on WS toe and a siphon breaker on the LS shoulder (Permit No. 15049, 1989). Permit was for 6-inch pipe.
FS Date: 2/4/2010

Photo 2 of 2 : UCIP_FA_2016_40706_72511.jpg

View of waterward toe--rip rap along pipe alignment.

LM Start	**12.55**	Rating **	M	Issue No.	**571**
LM End	**12.55**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.787929 °	37.787929 °
				-121.307173 °	-121.307173 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40707
DS_ID:60
EP_NO: 14326
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Wires exposed near levee crown unable to determine if these wires are part of the crossing. Need to contact owner to determine status of crossing.
FIELD_STRUCT_DESC: 4 inch diameter communication cable through levee. Invert of conduit is 3.0 feet below levee crown. (Permit No. 14326-1986)
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40707_72515.jpg

Overview of levee crown at crossing.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

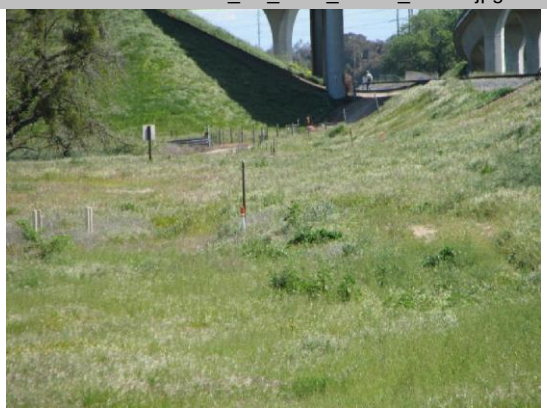
LM Start	**12.55**	Rating **	M	Issue No.	**571 (cont)**
LM End	**12.55**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.787929 °	37.787929 °
				-121.307173 °	-121.307173 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40707
DS_ID:60
EP_NO: 14326
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Wires exposed near levee crown unable to determine if these wires are part of the crossing. Need to contact owner to determine status of crossing.
FIELD_STRUCT_DESC: 4 inch diameter communication cable through levee. Invert of conduit is 3.0 feet below levee crown. (Permit No. 14326-1986)
FS Date: 2/4/2010

Photo 2 of 2 : UCIP_FA_2016_40707_72514.jpg



Crossing alignment along landward side.

LM Start	**12.68**	Rating **	M	Issue No.	**618**
LM End	**12.68**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.786343 °	37.786343 °
				-121.306157 °	-121.306157 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:45466
DS_ID:808
EP_NO: 2366
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe exposed on WS slope where soil has been removed from around pipe. There does not appear to be any damage or repair at excavation. Pipe should be burried.
FIELD_STRUCT_DESC: 22-inch diameter steel stormdrain pipe through the levee 10-feet below levee crown. 54-inch square, concrete manhole at the centerline of the levee between Manthey Road and the HWY 120 onramp to I-5. (Order of the Board No. 2366-1956) (Pipe listed as 22-inch in Permit).
FS Date: 5/21/2015

Photo 1 of 2 : UCIP_FA_2016_45466_72523.jpg

Pipe was running during field inspection.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**12.68**	Rating **	M	Issue No.	**618 (cont)**
LM End	**12.68**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.786343 °	37.786343 °
				-121.306157 °	-121.306157 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:45466
DS_ID:808
EP_NO: 2366
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe exposed on WS slope where soil has been removed from around pipe. There does not appear to be any damage or repair at excavation. Pipe should be burried.
FIELD_STRUCT_DESC: 22-inch diameter steel stormdrain pipe through the levee 10-feet below levee crown. 54-inch square, concrete manhole at the centerline of the levee between Manthey Road and the HWY 120 onramp to I-5. (Order of the Board No. 2366-1956) (Pipe listed as 22-inch in Permit).
FS Date: 5/21/2015

Photo 2 of 2 : UCIP_FA_2016_45466_74131.jpg

Concrete manhole on WS shoulder.

LM Start	**13.26**	Rating **	M	Issue No.	**572**
LM End	**13.26**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779653 °	37.779653 °
				-121.300064 °	-121.300064 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40712
DS_ID:65
EP_NO: 14450
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to contact owner to determine status of crossing.
FIELD_STRUCT_DESC: 1 of 2: 18 inch diameter drainage discharge pipes through levee. (Permit No. 14450-1985)
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40712_72529.jpg

View of landward side.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**13.26**	Rating **	M	Issue No.	**572 (cont)**
LM End	**13.26**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779653 °	37.779653 °
				-121.300064 °	-121.300064 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40712
DS_ID:65
EP_NO: 14450
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to contact owner to determine status of crossing.
FIELD_STRUCT_DESC: 1 of 2: 18 inch diameter drainage discharge pipes through levee. (Permit No. 14450-1985)
FS Date: 2/4/2010

Photo 2 of 2 : UCIP_FA_2016_40712_72528.jpg

Pipe section exposed on landward side.

LM Start	**13.26**	Rating **	M	Issue No.	**573**
LM End	**13.26**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779643 °	37.779643 °
				-121.300057 °	-121.300057 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40713
DS_ID:287
EP_NO: 14450
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to contact owner to determine status of crossing.
FIELD_STRUCT_DESC: 2 of 2: 18 inch diameter drainage discharge pipes through levee. (Permit No. 14450-1985)
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40713_72534.jpg

Precast concrete box located on levee shoulder.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**13.26**	Rating **	M	Issue No.	**573 (cont)**
LM End	**13.26**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779643 °	37.779643 °
				-121.300057 °	-121.300057 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40713
DS_ID:287
EP_NO: 14450
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Need to contact owner to determine status of crossing.
FIELD_STRUCT_DESC: 2 of 2: 18 inch diameter drainage discharge pipes through levee. (Permit No. 14450-1985)
FS Date: 2/4/2010

Photo 2 of 2 : UCIP_FA_2016_40713_72533.jpg

Pipes visible on waterward side.

LM Start	**13.27**	Rating **	M	Issue No.	**574**
LM End	**13.27**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779546 °	37.779546 °
				-121.299981 °	-121.299981 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40714
DS_ID:66
EP_NO: 14467
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Records show this crossing was suppose to be abandoned however, the drain pipe was operable during site visit. Need to contact owner to clarify if crossing that was abandoned was removed and replaced with current crossing.
FIELD_STRUCT_DESC: 36 inch concrete discharge gravity municipal waterwater discharge through levee approximatley 23 feet below crown. The reinforced concrete outfall structure with sluice gate will be constructed within the pipeline at the waterward levee shoulder. (Permit No. 14467-1986)
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40714_72545.jpg

Overview of levee crown at crossing.

* 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 Deficiancy Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**13.27**	Rating **	M	Issue No.	**574 (cont)**
LM End	**13.27**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779546 °	37.779546 °
				-121.299981 °	-121.299981 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40714
DS_ID:66
EP_NO: 14467
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Records show this crossing was suppose to be abandoned however, the drain pipe was operable during site visit. Need to contact owner to clarify if crossing that was abandoned was removed and replaced with current crossing.
FIELD_STRUCT_DESC: 36 inch concrete discharge gravity municipal waterwater discharge through levee approximatley 23 feet below crown. The reinforced concrete outfall structure with sluice gate will be constructed within the pipeline at the waterward levee shoulder. (Permit No. 14467-1986)
FS Date: 2/4/2010

Photo 2 of 2 : UCIP_FA_2016_40714_72539.jpg

Control box and distribution box located on waterward shoulder.

LM Start	**13.28**	Rating **	M	Issue No.	**615**
LM End	**13.28**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779470 °	37.779470 °
				-121.299954 °	-121.299954 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:45995
DS_ID:67
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Markers visible on landward side only. Recommend contacting owner to confirm alignment and crossing.
FIELD_STRUCT_DESC: Submarine power cable through the levee and across the channel.
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_45995_72526.jpg

View of levee crown at crossing.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**13.28**	Rating **	M	Issue No.	**615 (cont)**
LM End	**13.28**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779470 °	37.779470 °
				-121.299954 °	-121.299954 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:45995
DS_ID:67
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: Markers visible on landward side only. Recommend contacting owner to confirm alignment and crossing.
FIELD_STRUCT_DESC: Submarine power cable through the levee and across the channel.
FS Date: 2/4/2010

Photo 2 of 2 : UCIP_FA_2016_45995_72525.jpg

Markers visible along landward side.

LM Start	**13.28**	Rating **	M	Issue No.	**575**
LM End	**13.28**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779470 °	37.779470 °
				-121.299954 °	-121.299954 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40715
DS_ID:809
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: No information was obtained from desk study. This crossing was found during field visit. Need to contact owner to obtain additional details about crossing (installation date and permit) and status.
FIELD_STRUCT_DESC: *ABANDONED* 18-inch pipe through the levee, 5.8 feet below the crown. Gate valve and siphon breaker on the waterward slope. Flap gate on the waterward end. One CM cutoff wall (Reclamation District No. 17 Drainage Plant). Pump on the landward side. Installed by USCE 1961. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.36). (USACE O&M, 1963). Welded Steel plate installed over one end of pipe under Permit No. 14450, 1988.
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40715_72548.jpg

View of levee crown at crossing.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**13.28**	Rating **	M	Issue No.	**575 (cont)**
LM End	**13.28**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779470 °	37.779470 °
				-121.299954 °	-121.299954 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40715
DS_ID:809
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: No information was obtained from desk study. This crossing was found during field visit. Need to contact owner to obtain additional details about crossing (installation date and permit) and status.
FIELD_STRUCT_DESC: *ABANDONED* 18-inch pipe through the levee, 5.8 feet below the crown. Gate valve and siphon breaker on the waterward slope. Flap gate on the waterward end. One CM cutoff wall (Reclamation District No. 17 Drainage Plant). Pump on the landward side. Installed by USCE 1961. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.36). (USACE O&M, 1963). Welded Steel plate installed over one end of pipe under Permit No. 14450, 1988.
FS Date: 2/4/2010

Photo 2 of 2 : UCIP_FA_2016_40715_72551.jpg

View of waterward side, photo 1 of 2.

LM Start	**14.20**	Rating **	M	Issue No.	**576**
LM End	**14.20**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.772267 °	37.772267 °
				-121.290202 °	-121.290202 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40716
DS_ID:69
EP_NO: 15165
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pump was working during the survey. Levee toe erosion at waterward side. Recommend contacting owner to determine status and to evaluate erosion at waterward toe.
FIELD_STRUCT_DESC: 20-inch pipe through the levee, 1.7-feet below the crown. Pump on pile structure in the stream. Wooden walkway to the pump. concrete distribution box at the toe of the landward slope. (Permit No. 15165-1989)
FS Date: 2/4/2010

Photo 1 of 2 : UCIP_FA_2016_40716_72557.jpg

Overview of levee crown at crossing.

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

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	**14.20**	Rating **	M	Issue No.	**576 (cont)**
LM End	**14.20**	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.772267 °	37.772267 °
				-121.290202 °	-121.290202 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40716
DS_ID:69
EP_NO: 15165
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pump was working during the survey. Levee toe erosion at waterward side. Recommend contacting owner to determine status and to evaluate erosion at waterward toe.
FIELD_STRUCT_DESC: 20-inch pipe through the levee, 1.7-feet below the crown. Pump on pile structure in the stream. Wooden walkway to the pump. concrete distribution box at the toe of the landward slope. (Permit No. 15165-1989)
FS Date: 2/4/2010

Photo 2 of 2 : UCIP_FA_2016_40716_72556.jpg

Pipe operable during survey.

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