

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2017 Levee Inspection Results

Reclamation District No. 2098 Cache and Haas Slough

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

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

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

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

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2017 Levee Inspection Results

Reclamation District No. 2098 Cache and Haas Slough

Waterway			Bank	Unit Miles
Unit No. 01 Yolo Bypass			Right	3.60
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/25/2017 - 4/25/2017			
DWR Inspector	Herman Phillips			
Accompanied By				

Summer & Winter Inspections

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

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	04/25/2017 04/25/2017	Herman Phillips

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD2098_01_f_2014_3				
Comment Code					
Inspector Comment					
RD 2098 Has on file O+M Manual.					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD2098_01_f_2014_4				
Comment Code					
Inspector Comment					
RD 2098 Has Emergency Supplies in storage along with Equipment.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD2098_01_f_2014_5				
Comment Code					
Inspector Comment					
RD 2098 Has their team well prepared for Flood Fight.					

No Photos

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	04/25/2017 04/25/2017	Herman Phillips

LM Start	0.01	Rating **	U	Issue No.	11
LM End	3.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.328945 °	38.277510 °
				-121.694093 °	-121.696247 °
DWR ID	DWR_RD2098_01_s_2017_11				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild growth other than annual grasses from the levee slope.					

Photo 1 of 1 : SP_2017_RD2098_244_11_20170523_00022.jpg



RD 2098 Unit 1 landside looking upstream from the landside shoulder tall unwanted mustard grass and other vegetation present on the levee slope.

LM Start	0.03	Rating **	U	Issue No.	12
LM End	3.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.328715 °	38.277708 °
				-121.694037 °	-121.696232 °
DWR ID	DWR_RD2098_01_s_2017_12				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD2098_244_12_20170523_00023.jpg



RD 2098 Unit 1 looking upstream from the waterside levee slope levee mile 0.03-3.58, tall unwanted mustard and weeds growth covering the levee slope.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	04/25/2017 04/25/2017	Herman Phillips

LM Start	0.57	Rating **	M	Issue No.	13
LM End	1.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.320755 °	38.314253 °
				-121.693982 °	-121.693927 °
DWR ID	DWR_RD2098_01_s _ 2017_13				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

No Photos

LM Start	1.55	Rating **	M	Issue No.	14
LM End	1.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.306647 °	38.306543 °
				-121.693620 °	-121.693607 °
DWR ID	DWR_RD2098_01_s _ 2017_14				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.57	Rating **	M	Issue No.	15
LM End	1.91	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.306388 °	38.301405 °
				-121.693573 °	-121.693620 °
DWR ID	DWR_RD2098_01_s _ 2017_15				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	04/25/2017 04/25/2017	Herman Phillips

LM Start	1.79	Rating **	M	Issue No.	16
LM End	3.59	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.303127 °	38.277510 °
				-121.693615 °	-121.696247 °
DWR ID	DWR_RD2098_01_s_2017_16				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					
Keep the crown roadway free of vegetation.					

No Photos

LM Start	1.82	Rating **	M	Issue No.	21
LM End	1.82	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.302770 °	38.302770 °
				-121.693640 °	-121.693640 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32197 DS_ID:20965 EP_NO: 10168 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Erosion under pipe at WS toe. FIELD_STRUCT_DESC: 10-inch steel drainpipe through the levee, 2.8-feet below the crown. Pump in pump house off the landward side. (USACE-1962). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.80). This pipe was retained under ABO No. 10168 (1974). FS Date: 3/18/2014					

Photo 1 of 3 : UCIP_SP_2017_32197_58662.jpg



Pipe on WS slope.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	04/25/2017 04/25/2017	Herman Phillips

LM Start	1.82	Rating **	M	Issue No.	21 (cont)
LM End	1.82	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.302770 °	38.302770 °
				-121.693640 °	-121.693640 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32197 DS_ID:20965 EP_NO: 10168 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Erosion under pipe at WS toe. FIELD_STRUCT_DESC: 10-inch steel drainpipe through the levee, 2.8- feet below the crown. Pump in pump house off the landward side. (USACE-1962). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.80). This pipe was retained under ABO No. 10168 (1974). FS Date: 3/18/2014					

Photo 2 of 3 : UCIP_SP_2017_32197_58661.jpg



Pumphouse at lowpoint off LS toe.

LM Start	1.82	Rating **	M	Issue No.	21 (cont)
LM End	1.82	Issue Type +	En	Location *	CR

Photo 3 of 3 : UCIP_SP_2017_32197_58660.jpg



Erosion under pipe at WS toe.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	04/25/2017 04/25/2017	Herman Phillips

LM Start	1.83	Rating **	M	Issue No.	22
LM End	1.83	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.302552 °	38.302552 °
				-121.693653 °	-121.693653 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32207 DS_ID:20966 EP_NO: 10168 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slide gate actuator bent but appears to be in closed position. No lid on standpipe. Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 24-inch pipe through the levee, 24.5 feet below the crown. Two CM cutoff wall around pipe at center of levee. Slide gate in 36-inch CMP riser on the waterward slope. Concrete saddle and apron on waterward end. Flap gate and "U" headwall on landward end. This pipe was retained under ABO No. 10168 (1974). FS Date: 3/18/2014					

LM Start	1.83	Rating **	M	Issue No.	22 (cont)
LM End	1.83	Issue Type +	En	Location *	CR

Photo 1 of 3 : UCIP_SP_2017_32207_58665.jpg



36-inch CMP riser with bent slide gate actuator on WS slope.

Photo 2 of 3 : UCIP_SP_2017_32207_58664.jpg



No lid on CMP riser that is 24-feet deep.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	04/25/2017 04/25/2017	Herman Phillips

LM Start	1.83	Rating **	M	Issue No.	22 (cont)
LM End	1.83	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.302552 °	38.302552 °
				-121.693653 °	-121.693653 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32207 DS_ID:20966 EP_NO: 10168 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slide gate actuator bent but appears to be in closed position. No lid on standpipe. Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 24-inch pipe through the levee, 24.5 feet below the crown. Two CM cutoff wall around pipe at center of levee. Slide gate in 36-inch CMP riser on the waterward slope. Concrete saddle and apron on waterward end. Flap gate and "U" headwall on landward end. This pipe was retained under ABO No. 10168 (1974). FS Date: 3/18/2014					

Photo 3 of 3 : UCIP_SP_2017_32207_58663.jpg



bent actuator on WS slope.

LM Start	2.00	Rating **	M	Issue No.	23
LM End	2.00	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.300152 °	38.300152 °
				-121.693626 °	-121.693626 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32225 DS_ID:20967 EP_NO: 10168 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and if so should be done so properly. Pipe open on WS at pumphouse as there is no connection to pump. FIELD_STRUCT_DESC: 2-inch galvanized iron irrigation pipe through the levee, 10.0 feet below the crown. Pump in pump house on the waterward slope next to Fishing dock. Power pole and meter at LS toe, next to hose bib. 1-inch steel electrical conduit at same location. This pipe was retained under ABO No. 10168 (1974). FS Date: 3/18/2014					

Photo 1 of 3 : UCIP_SP_2017_32225_58687.jpg



Pumphouse next to fishing dock on WS slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	04/25/2017 04/25/2017	Herman Phillips

LM Start	2.00	Rating **	M	Issue No.	23 (cont)	
LM End	2.00	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.300152 °		38.300152 °
				-121.693626 °		-121.693626 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32225 DS_ID:20967 EP_NO: 10168 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and if so should be done so properly. Pipe open on WS at pumphouse as there is no connection to pump. FIELD_STRUCT_DESC: 2-inch galvanized iron irrigation pipe through the levee, 10.0 feet below the crown. Pump in pump house on the waterward slope next to Fishing dock. Power pole and meter at LS toe, next to hose bib. 1-inch steel electrical conduit at same location. This pipe was retained under ABO No. 10168 (1974). FS Date: 3/18/2014						

Photo 2 of 3 : UCIP_SP_2017_32225_58686.jpg



Power pole and meter next to spigot on LS toe.

LM Start	2.00	Rating **	M	Issue No.	23 (cont)
LM End	2.00	Issue Type +	En	Location *	CR

Photo 3 of 3 : UCIP_SP_2017_32225_58685.jpg



Power pole and meter next to spigot on LS toe.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	04/25/2017 04/25/2017	Herman Phillips

LM Start	2.05	Rating **	M	Issue No.	17
LM End	2.08	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.299395 °	38.298990 °
				-121.693620 °	-121.693633 °
DWR ID	DWR_RD2098_01_s _ 2017_17				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	2.30	Rating **	M	Issue No.	20
LM End	2.32	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.295870 °	38.295430 °
				-121.693645 °	-121.693628 °
DWR ID	DWR_RD2098_01_s _ 2017_20				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion site listed.					

No Photos

LM Start	2.47	Rating **	M	Issue No.	18
LM End	2.98	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.293332 °	38.285943 °
				-121.693632 °	-121.693660 °
DWR ID	DWR_RD2098_01_s _ 2017_18				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	04/25/2017 04/25/2017	Herman Phillips

LM Start	3.01	Rating **	M	Issue No.	24
LM End	3.01	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.285525 °	38.285525 °
				-121.693640 °	-121.693640 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32227 DS_ID:20969 EP_NO: 13222 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe rusted through at outlet on WS slope, may indicate further degradation of pipe within levee. Good candidate for video inspection. FIELD_STRUCT_DESC: 20-inch steel drainpipe through the levee, 7.5 feet below the crown. Siphon breaker at waterward shoulder. Pump on pile structure in drain ditch on landward side. (USACE-1962). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.98). This pipe was retained under ABO No. 10168 (1974). Pipe removed and replaced with 19-inch steel pipe under crown and along landward slope under Permit No. 13222 (1982). FS Date: 3/18/2014					

LM Start	3.01	Rating **	M	Issue No.	24 (cont)
LM End	3.01	Issue Type +	En	Location *	CR

Photo 1 of 3 : UCIP_SP_2017_32227_58692.jpg



Pump on pile structure in drainage channel on LS toe.

Photo 2 of 3 : UCIP_SP_2017_32227_58691.jpg



Siphon breaker in steel riser on WS slope.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	04/25/2017 04/25/2017	Herman Phillips

LM Start	3.01	Rating **	M	Issue No.	24 (cont)	
LM End	3.01	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.285525 °	38.285525 °	
				-121.693640 °	-121.693640 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32227						
DS_ID:20969						
EP_NO: 13222						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe rusted through at outlet on WS slope, may indicate further degradation of pipe within levee. Good candidate for video inspection.						
FIELD_STRUCT_DESC: 20-inch steel drainpipe through the levee, 7.5 feet below the crown. Siphon breaker at waterward shoulder. Pump on pile structure in drain ditch on landward side. (USACE-1962). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.98). This pipe was retained under ABO No. 10168 (1974). Pipe removed and replaced with 19-inch steel pipe under crown and along landward slope under Permit No. 13222 (1982).						
FS Date: 3/18/2014						

Photo 3 of 3 : UCIP_SP_2017_32227_58690.jpg



Pipe rusted through at outlet on WS slope.

LM Start	3.12	Rating **	M	Issue No.	19
LM End	3.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.283935 °	38.281303 °
				-121.693628 °	-121.694663 °
DWR ID	DWR_RD2098_01_s_2017_19				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	04/25/2017 04/25/2017	Herman Phillips

LM Start	3.49	Rating **	M	Issue No.	25
LM End	3.49	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.278879 °	38.278879 °
				-121.695957 °	-121.695957 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32243 DS_ID:20970 EP_NO: 10168 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Walkway to slidegate on WS toe is in poor structural condition and may not be safe for accessing the slide gate actuator. Pipe appears abandoned and if so should be done so properly. Outlet on LS toe may be burried. FIELD_STRUCT_DESC: 24-inch steel irrigation pipe through the levee, 22.3 feet below the crown. Slide gate on the waterward end. Walkway from waterward shoulder to slide gate control. Flap gate on landward end. This pipe was retained under ABO No. 10168 (1974). FS Date: 3/18/2014					

Photo 1 of 3 : UCIP_SP_2017_32243_58702.jpg



Walkway to slide gate actuator on WS toe.

LM Start	3.49	Rating **	M	Issue No.	25 (cont)
LM End	3.49	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_SP_2017_32243_58701.jpg



Walkway may not be structurally sound.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	04/25/2017 04/25/2017	Herman Phillips

LM Start	3.49	Rating **	M	Issue No.	25 (cont)
LM End	3.49	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.278879 °	38.278879 °
				-121.695957 °	-121.695957 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32243 DS_ID:20970 EP_NO: 10168 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Walkway to slidegate on WS toe is in poor structural condition and may not be safe for accessing the slide gate actuator. Pipe appears abandoned and if so should be done so properly. Outlet on LS toe may be buried. FIELD_STRUCT_DESC: 24-inch steel irrigation pipe through the levee, 22.3 feet below the crown. Slide gate on the waterward end. Walkway from waterward shoulder to slide gate control. Flap gate on landward end. This pipe was retained under ABO No. 10168 (1974). FS Date: 3/18/2014					

Photo 3 of 3 : UCIP_SP_2017_32243_58700.jpg



Slidegate on WS toe at pipe.

LM Start	3.50	Rating **	M	Issue No.	26
LM End	3.50	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.278770 °	38.278770 °
				-121.696050 °	-121.696050 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41717					
DS_ID:20971					
EP_NO: 15169					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Debris and soil buildup in riser may prevent proper function of siphon breaker.					
FIELD_STRUCT_DESC: 1 of 2: 24-inch steel drainpipe through the levee, 5.6 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker at waterward shoulder. Flap gate on waterward end. Pump in pump house on piling structure on landward side. (Permit No. 15169-1989)					
FS Date: 3/18/2014					

Photo 1 of 3 : UCIP_SP_2017_41717_58704.jpg



Pump in pumphouse on LS toe.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	04/25/2017 04/25/2017	Herman Phillips

LM Start	3.50	Rating **	M	Issue No.	26 (cont)	
LM End	3.50	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.278770 °		38.278770 °
				-121.696050 °		-121.696050 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:41717						
DS_ID:20971						
EP_NO: 15169						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Debris and soil buildup in riser may prevent proper function of siphon breaker.						
FIELD_STRUCT_DESC: 1 of 2: 24-inch steel drainpipe through the levee, 5.6 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker at waterward shoulder. Flap gate on waterward end. Pump in pump house on piling structure on landward side. (Permit No. 15169-1989)						
FS Date: 3/18/2014						

Photo 2 of 3 : UCIP_SP_2017_41717_58703.jpg



Pump in pumphouse on LS toe.

LM Start	3.50	Rating **	M	Issue No.	26 (cont)
LM End	3.50	Issue Type +	En	Location *	WS

Photo 3 of 3 : UCIP_SP_2017_41717_58707.jpg



Siphon breaker in 24-inch steel riser on WS shoulder.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	04/25/2017 04/25/2017	Herman Phillips

LM Start	3.50	Rating **	M	Issue No.	27
LM End	3.50	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.278759 °	38.278759 °
				-121.696059 °	-121.696059 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32245 DS_ID:20959 EP_NO: 15169 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Soil and debris buildup in steel riser on WS shoulder may prevent proper function of siphon breaker. FIELD_STRUCT_DESC: 2 of 2: 24-inch steel pipe through the levee, 5.6 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker at waterward shoulder. Flap gate on waterward end. Pump in pump house on piling structure on landward side. (Permit No. 15169-1989) FS Date: 3/18/2014					

LM Start	3.50	Rating **	M	Issue No.	27 (cont)
LM End	3.50	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_SP_2017_32245_58710.jpg



Pump in pumphouse on LS toe.

Photo 2 of 3 : UCIP_SP_2017_32245_58709.jpg



Pump in pumphouse on LS toe.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	04/25/2017 04/25/2017	Herman Phillips

LM Start	3.50	Rating **	M	Issue No.	27 (cont)	
LM End	3.50	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.278759 °		38.278759 °
				-121.696059 °		-121.696059 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32245 DS_ID:20959 EP_NO: 15169 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Soil and debris buildup in steel riser on WS shoulder may prevent proper function of siphon breaker. FIELD_STRUCT_DESC: 2 of 2: 24-inch steel pipe through the levee, 5.6 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker at waterward shoulder. Flap gate on waterward end. Pump in pump house on piling structure on landward side. (Permit No. 15169-1989) FS Date: 3/18/2014						

Photo 3 of 3 : UCIP_SP_2017_32245_58708.jpg



Siphon breaker in steel riser on WS shoulder.

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

Unit Cover Sheet

Spring 2017 Levee Inspection Results

Reclamation District No. 2098 Cache and Haas Slough

Waterway			Bank	Unit Miles
Unit No. 01A Cross Levee			Right	0.53
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/25/2017 - 4/25/2017			
DWR Inspector	Herman Phillips			
Accompanied By				

Summer & Winter Inspections

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

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01A Cross Levee	Right	0.53	04/25/2017 04/25/2017	Herman Phillips

LM Start	0.00	Rating **	U	Issue No.	1
LM End	0.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.277382°	38.275722°
				-121.696270°	-121.705675°
DWR ID	DWR_RD2098_01A_s_2017_1				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild grasses other than native from the levee slope.					

Photo 1 of 1 : SP_2017_RD2098_245_1_20170523_00002.jpg



RD 2098 1A Looking upstream from levee mile 0.00-0.52 landside slope.

LM Start	0.00	Rating **	U	Issue No.	2
LM End	0.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.277382°	38.275722°
				-121.696270°	-121.705675°
DWR ID	DWR_RD2098_01A_s_2017_2				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild grasses other than native from the levee section.					

Photo 1 of 1 : SP_2017_RD2098_245_2_20170523_00001.jpg



RD 2098 Unit 1A looking upstream from the waterside slope.

LM Start	0.00	Rating **	U	Issue No.	3
LM End	0.52	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.277382 °	38.275722 °
				-121.696270 °	-121.705675 °
DWR ID	DWR_RD2098_01A_s_2017_3				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					
Keep the crown roadway free of vegetation.					

Photo 1 of 1 : SP_2017_RD2098_245_3_20170523_00003.jpg



RD 2098 1A Levee mile 0.52 crown roadway. Unwanted tall weeds present on the crown roadway.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01A Cross Levee	Right	0.53	04/25/2017 04/25/2017	Herman Phillips

LM Start	0.45	Rating **	M	Issue No.	4
LM End	0.52	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		38.275948 °	38.275722 °	
			-121.704298 °	-121.705675 °	
DWR ID	DWR_RD2098_01A_s _ 2017_4				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2017 Levee Inspection Results

Reclamation District No. 2098 Cache and Haas Slough

Waterway			Bank	Unit Miles
Unit No. 02 Cache Slough			Left	1.89
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/25/2017 - 4/25/2017			
DWR Inspector	Herman Phillips			
Accompanied By				

Summer & Winter Inspections

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

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	04/25/2017 04/25/2017	Herman Phillips

LM Start	5.32	Rating **	M	Issue No.	22
LM End	7.18	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.276013 °	38.293078 °
				-121.706008 °	-121.724050 °
DWR ID	DWR_RD2098_02_s_2017_22				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Repair the rutts in the crown roadway.					

No Photos

LM Start	5.71	Rating **	M	Issue No.	27
LM End	5.71	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.280788 °	38.280788 °
				-121.709617 °	-121.709617 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32287 DS_ID:20973 EP_NO: 10172 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and if so should be done so properly. Slide gate appears to be open and should be closed for the season. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 22.8 feet below the crown. Two cutoff walls around pipe at levee shoulders. Slide gate in 36-inch CMP riser on waterward slope. Flap gate and concrete "U" headwall on landward end. This pipe was retained under ABO No. 10172 (1974). FS Date: 3/18/2014					

Photo 1 of 3 : UCIP_SP_2017_32287_58755.jpg



LS - no pipe visible.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	04/25/2017 04/25/2017	Herman Phillips

LM Start	5.71	Rating **	M	Issue No.	27 (cont)	
LM End	5.71	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.280788 °	38.280788 °	
				-121.709617 °	-121.709617 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32287						
DS_ID:20973						
EP_NO: 10172						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe appears abandoned and if so should be done so properly. Slide gate appears to be open and should be closed for the season.						
FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 22.8 feet below the crown. Two cutoff walls around pipe at levee shoulders. Slide gate in 36-inch CMP riser on waterward slope. Flap gate and concrete "U" headwall on landward end. This pipe was retained under ABO No. 10172 (1974).						
FS Date: 3/18/2014						

Photo 2 of 3 : UCIP_SP_2017_32287_58754.jpg



Slide gate in 36-inch standpipe on WS slope.

LM Start	5.71	Rating **	M	Issue No.	27 (cont)
LM End	5.71	Issue Type +	En	Location *	CR

Photo 3 of 3 : UCIP_SP_2017_32287_58753.jpg



Slide gate in 36-inch standpipe on WS slope.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	04/25/2017 04/25/2017	Herman Phillips

LM Start	5.92	Rating **	U	Issue No.	24
LM End	5.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.283303 °	38.283447 °
				-121.711585 °	-121.711762 °
DWR ID	DWR_RD2098_02_s_2017_24				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

No Photos

LM Start	6.03	Rating **	U	Issue No.	26
LM End	6.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.283618 °	38.283618 °
				-121.713420 °	-121.713420 °
DWR ID	DWR_RD2098_02_s_2017_26				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Repair the levee damage.					

Photo 1 of 3 : SP_2017_RD2098_246_26_20170523_00031.jpg



RD 2098 LEVEE MILE 6.03 MAJOR CROWN/SLOPE DAMAGE.

LM Start	6.03	Rating **	U	Issue No.	26 (cont)
LM End	6.03	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : SP_2017_RD2098_246_26_20170523_00032.jpg



RD 2098 Levee damage crown roadway and landside slope damage.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	04/25/2017 04/25/2017	Herman Phillips

LM Start	6.03	Rating **	U	Issue No.	26 (cont)	
LM End	6.03	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			38.283618 °	38.283618 °	
				-121.713420 °	-121.713420 °	
DWR ID	DWR_RD2098_02_s_2017_26					
Comment Code						
S1 : Repair slope instability.						
Inspector Comment						
Repair the levee damage.						

Photo 3 of 3 : SP_2017_RD2098_246_26_20170523_00033.jpg



Close up of damage.

LM Start	6.12	Rating **	M	Issue No.	12
LM End	6.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.284348 °	38.284348 °
				-121.714682 °	-121.714682 °
DWR ID	DWR_RD2098_02_f_2016_12				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove this nut tree from the landside slope.					

No Photos

LM Start	6.70	Rating **	M	Issue No.	10
LM End	6.70	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.292076 °	38.292076 °
				-121.715792 °	-121.715792 °
DWR ID	DWR_RD2098_02_s_2014_10				
Comment Code					
MA : Material					
Inspector Comment					
Large concrete slab partially covered in durt on waterside slope.					

Photo 1 of 1 : SP_2017_RD2098_246_10_20170404_00004.jpg



There is some slope damage at this location under this concrete. No new photo; RD will send crew out to check area out.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	04/25/2017 04/25/2017	Herman Phillips

LM Start	6.71	Rating **	M	Issue No.	28
LM End	6.71	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.292194 °	38.292194 °
				-121.715853 °	-121.715853 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33784 DS_ID:20976 EP_NO: 10172 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Headwalls on WS toe failing at outlet. It is unclear if these were permanent installations or something that was installed as a temporary fix. FIELD_STRUCT_DESC: 1 of 2: 48-inch CM drainpipe through the levee, 29.0 feet below the crown. Two slide gates in 7-foot diameter CMP riser on waterward slope. (USACE-1962). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.75). This pipe was retained under ABO No. 10172 (1974). FS Date: 3/18/2014					

LM Start	6.71	Rating **	M	Issue No.	28 (cont)
LM End	6.71	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP_SP_2017_33784_61162.jpg



Two slide gates in 7-foot diameter CMP riser on waterward slope.

Photo 2 of 3 : UCIP_SP_2017_33784_61161.jpg



Inlet not visible on LS toe.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	04/25/2017 04/25/2017	Herman Phillips

LM Start	6.71	Rating **	M	Issue No.	28 (cont)
LM End	6.71	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.292194 °	38.292194 °
				-121.715853 °	-121.715853 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:33784					
DS_ID:20976					
EP_NO: 10172					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Headwalls on WS toe failing at outlet. It is unclear if these were permanent installations or something that was installed as a temporary fix.					
FIELD_STRUCT_DESC: 1 of 2: 48-inch CM drainpipe through the levee, 29.0 feet below the crown. Two slide gates in 7-foot diameter CMP riser on waterward slope. (USACE-1962). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.75). This pipe was retained under ABO No. 10172 (1974).					
FS Date: 3/18/2014					

Photo 3 of 3 : UCIP_SP_2017_33784_61160.jpg



View inside CMP riser on WS shoulder.

LM Start	6.72	Rating **	M	Issue No.	29
LM End	6.72	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.292234 °	38.292234 °
				-121.715875 °	-121.715875 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32285 DS_ID:20961 EP_NO: 10172 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Headwalls at WS toe failing. It is uncertain if these retaining walls were a permanent fixture or a temporary fix that failed. FIELD_STRUCT_DESC: 2 of 2: 48-inch CM drainpipe through the levee, 29.0 feet below the crown. Two slidegates in a 7-foot diameter CMP riser on WS shoulder (USACE-1962). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.75). This pipe was retained under ABO No. 10172 (1974). FS Date: 3/18/2014					

Photo 1 of 3 : UCIP_SP_2017_32285_58749.jpg



Inlet not visible on LS toe.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	04/25/2017 04/25/2017	Herman Phillips

LM Start	6.72	Rating **	M	Issue No.	29 (cont)	
LM End	6.72	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.292234 °		38.292234 °
				-121.715875 °		-121.715875 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32285 DS_ID:20961 EP_NO: 10172 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Headwalls at WS toe failing. It is uncertain if these retaining walls were a permanent fixture or a temporary fix that failed. FIELD_STRUCT_DESC: 2 of 2: 48-inch CM drainpipe through the levee, 29.0 feet below the crown. Two slidegates in a 7-foot diameter CMP riser on WS shoulder (USACE-1962). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.75). This pipe was retained under ABO No. 10172 (1974). FS Date: 3/18/2014						

LM Start	6.72	Rating **	M	Issue No.	29 (cont)
LM End	6.72	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : UCIP_SP_2017_32285_58748.jpg



7-foot diameter CMP riser with two slide gates inside.

Photo 3 of 3 : UCIP_SP_2017_32285_58747.jpg



7-foot diameter CMP riser with two slide gates inside.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	04/25/2017 04/25/2017	Herman Phillips

LM Start	6.73	Rating **	M	Issue No.	23
LM End	7.14	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.292397 °	38.292983 °
				-121.716057 °	-121.723331 °
DWR ID	DWR_RD2098_02_s_2017_23				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					
Keep crown roadway free of vegetation.					

No Photos

LM Start	6.74	Rating **	M	Issue No.	16
LM End	6.74	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			38.292467 °	38.292467 °
				-121.716138 °	-121.716138 °
DWR ID	DWR_RD2098_02_f_2016_16				
Comment Code					
Inspector Comment					
Repair this gate that has been damaged.					

Photo 1 of 1 : SP_2017_RD2098_246_16_20170404_00010.jpg



Levee mile 6.74 crown roadway gate crossing.

LM Start	6.75	Rating **	M	Issue No.	17
LM End	6.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.292572 °	38.292922 °
				-121.716240 °	-121.717028 °
DWR ID	DWR_RD2098_02_f_2016_17				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control the annual grasses from the landside slope levee mile 6.75-6.80.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	04/25/2017 04/25/2017	Herman Phillips

LM Start	6.75	Rating **	M	Issue No.	4
LM End	6.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.292572 °	38.292947 °
				-121.716240 °	-121.717110 °
DWR ID	DWR_RD2098_02_f_2016_4				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control the annual weeds from the waterside slope.					

No Photos

LM Start	7.03	Rating **	M	Issue No.	18
LM End	7.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.292983 °	38.292992 °
				-121.721312 °	-121.722023 °
DWR ID	DWR_RD2098_02_f_2016_18				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control the vegetation on the landside levee mile 7.03-7.07.					

No Photos

LM Start	7.12	Rating **	U	Issue No.	11
LM End	7.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.292966 °	38.292966 °
				-121.722996 °	-121.722996 °
DWR ID	DWR_RD2098_02_s_2017_11				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Major damage to levee section, no vehicle passage, repairs are needed.					

Photo 1 of 1 : SP_2017_RD2098_246_11_20170523_00030.jpg



RD 2098 Levee mile 7.12 major levee damage crown roadway and landside slope.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	04/25/2017 04/25/2017	Herman Phillips

LM Start	7.14	Rating **	U	Issue No.	5
LM End	7.14	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			38.292962 °	38.292962 °
				-121.723312 °	-121.723312 °
DWR ID	DWR_RD2098_02_f_2013_5				
Comment Code					
Inspector Comment					
Gate damage, make repairs to this gate. This gate could cause injury to someone.					

Photo 1 of 1 : SP_2017_RD2098_246_5_20170523_00034.jpg



RD 2098 Levee mile 7.14.

LM Start	7.14	Rating **	M	Issue No.	3
LM End	7.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.292970 °	38.293078 °
				-121.723432 °	-121.724045 °
DWR ID	DWR_RD2098_02_s_2017_3				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control annual grasses and weeds on the waterside slope.					

No Photos

LM Start	7.14	Rating **	M	Issue No.	25
LM End	7.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.292970 °	38.293078 °
				-121.723432 °	-121.724045 °
DWR ID	DWR_RD2098_02_s_2017_25				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control the annual grasses and weeds from the landside slope.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	04/25/2017 04/25/2017	Herman Phillips

LM Start	7.19	Rating **	M	Issue No.	30
LM End	7.19	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.293139 °	38.293139 °
				-121.724174 °	-121.724174 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32290 DS_ID:20977 EP_NO: 10171 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears to be abandoned and if so it should be done so properly. Walkway to gate valve actuator on WS slope is in disrepair and does not appear to be safe for use. FIELD_STRUCT_DESC: 36-inch CM drain/irrigation pipe through the levee, 23.0 feet below the crown. Walkway to slide gate on waterward end. Slide gate at LS toe (USACE-1962). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.23). This pipe was retained under ABO No. 10171 (1974). FS Date: 3/18/2014					

Photo 1 of 3 : UCIP_SP_2017_32290_58764.jpg



Slide gate at LS toe.

LM Start	7.19	Rating **	M	Issue No.	30 (cont)
LM End	7.19	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_SP_2017_32290_58763.jpg



Delapidated wooden pier on WS shoulder.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	04/25/2017 04/25/2017	Herman Phillips

LM Start	7.19	Rating **	M	Issue No.	30 (cont)
LM End	7.19	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.293139 °	38.293139 °
				-121.724174 °	-121.724174 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32290 DS_ID:20977 EP_NO: 10171 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears to be abandoned and if so it should be done so properly. Walkway to gate valve actuator on WS slope is in disrepair and does not appear to be safe for use. FIELD_STRUCT_DESC: 36-inch CM drain/irrigation pipe through the levee, 23.0 feet below the crown. Walkway to slide gate on waterward end. Slide gate at LS toe (USACE-1962). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.23). This pipe was retained under ABO No. 10171 (1974). FS Date: 3/18/2014					

Photo 3 of 3 : UCIP_SP_2017_32290_58762.jpg



Concrete U-shaped headwall on WS toe.

LM Start	7.24	Rating **	A/W	Issue No.	31
LM End	7.24	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.293741 °	38.293741 °
				-121.724787 °	-121.724787 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32303 DS_ID:20978 EP_NO: 10171 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel pipe through the levee, 4.5 feet below the crown. CM cutoff wall around pipe. Pipe has welded steel plate over end on LS slope and is not visible on WS slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.28). This pipe was retained under ABO No. 10171 (1974). FS Date: 3/18/2014 7:07:14 AM					

Photo 1 of 3 : UCIP_SP_2017_32303_58782.jpg



Pipe visible under new pipe on LS slope.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	04/25/2017 04/25/2017	Herman Phillips

LM Start	7.24	Rating **	A/W	Issue No.	31 (cont)	
LM End	7.24	Issue Type +	Ma	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.293741 °		38.293741 °
				-121.724787 °		-121.724787 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32303 DS_ID:20978 EP_NO: 10171 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel pipe through the levee, 4.5 feet below the crown. CM cutoff wall around pipe. Pipe has welded steel plate over end on LS slope and is not visible on WS slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.28). This pipe was retained under ABO No. 10171 (1974). FS Date: 3/18/2014 7:07:14 AM						

Photo 2 of 3 : UCIP_SP_2017_32303_58781.jpg



Pipe visible under new pipe on LS slope.

LM Start	7.24	Rating **	A/W	Issue No.	31 (cont)
LM End	7.24	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : UCIP_SP_2017_32303_58780.jpg



Welded steel cap over LS end of pipe.

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

Unit Cover Sheet

Spring 2017 Levee Inspection Results

Reclamation District No. 2098 Cache and Haas Slough

Waterway			Bank	Unit Miles
Unit No. 03 Haas Slough			Right	1.94
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/25/2017 - 4/25/2017			
DWR Inspector	Herman Phillips			
Accompanied By				

Summer & Winter Inspections

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

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	04/25/2017 04/25/2017	Herman Phillips

LM Start	7.19	Rating **	U	Issue No.	2
LM End	7.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.293178 °	38.294705 °
				-121.724220 °	-121.725130 °
DWR ID	DWR_RD2098_03_f_2016_2				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the tall vegetation from the landside slope.					

LM Start	7.19	Rating **	U	Issue No.	2 (cont)
LM End	7.31	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP_2017_RD2098_247_2_20170523_00011.jpg



RD 2098 Looking downstream from levee mile 7.19-7.31

Photo 2 of 2 : SP_2017_RD2098_247_2_20170404_00004.jpg



RD 2098 Looking downstream from levee mile 7.19 landside slope.

LM Start	7.19	Rating **	U	Issue No.	8
LM End	7.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.293178 °	38.294705 °
				-121.724215 °	-121.725133 °
DWR ID	DWR_RD2098_03_f_2016_8				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the tall vegetation from the water side slope.					

Photo 1 of 1 : SP_2017_RD2098_247_8_20170523_00012.jpg



RD 2098 Unit 3 levee mile 7.19-7.31 waterside slope.

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	04/25/2017 04/25/2017	Herman Phillips

LM Start	7.24	Rating **	M	Issue No.	17
LM End	7.24	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.293741 °	38.293741 °
				-121.724787 °	-121.724787 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32564					
DS_ID:24848					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to verify pipe is properly abandoned as					
waterside is not visible. Was this filled with concrete or just capped?					
FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel drain pipe					
through the levee, 8-feet below the crown. CM cutoff wall around pipe.					
Steel plate welded over LS end of pipe.					
FS Date: 3/18/2014 8:14:00 AM					

No Photos

LM Start	7.33	Rating **	M	Issue No.	3
LM End	7.72	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.294858 °	38.299606 °
				-121.725433 °	-121.728621 °
DWR ID	DWR_RD2098_03_f_2016_3				
Comment Code					
Inspector Comment					
2011 - Large vertical erosion pockets and bank slumping. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: HAS_7-9_L]					

No Photos

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	04/25/2017 04/25/2017	Herman Phillips

LM Start	7.37	Rating **	M	Issue No.	11
LM End	8.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.295418 °	38.305932 °
				-121.725657 °	-121.730000 °
DWR ID	DWR_RD2098_03_f_2016_11				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the dead vegetation growth from the waterside slope.					

No Photos

LM Start	7.37	Rating **	M	Issue No.	6
LM End	7.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.295460 °	38.296799 °
				-121.725750 °	-121.727510 °
DWR ID	DWR_RD2098_03_s_2013_6				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
This erosion is caused by the resident goats in the area. They are corralled in this location with full access to the levee .					

No Photos

LM Start	7.42	Rating **	M	Issue No.	12
LM End	7.64	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.295935 °	38.298372 °
				-121.726343 °	-121.728678 °
DWR ID	DWR_RD2098_03_s_2017_12				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	04/25/2017 04/25/2017	Herman Phillips

LM Start	7.51	Rating **	U	Issue No.	1
LM End	7.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.296846 °	38.296846 °
				-121.727546 °	-121.727546 °
DWR ID	DWR_RD2098_03_f_2016_1				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Make the repairs to the erosion site listed.					

Photo 1 of 2 : SP_2017_RD2098_247_1_20170404_00002.jpg



Close up. Looking downstream.

LM Start	7.51	Rating **	U	Issue No.	1 (cont)
LM End	7.51	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2017_RD2098_247_1_20170404_00003.jpg



Looking upstream.

LM Start	7.74	Rating **	M	Issue No.	10
LM End	8.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.299780 °	38.305952 °
				-121.728398 °	-121.730053 °
DWR ID	DWR_RD2098_03_f_2016_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control the vegetation on the landside slope.					

No Photos

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	04/25/2017 04/25/2017	Herman Phillips

LM Start	7.77	Rating **	U	Issue No.	13
LM End	8.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.300250 °	38.310588 °
				-121.728330 °	-121.734603 °
DWR ID	DWR_RD2098_03_s_2017_13				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control annual grasses and weeds from the slope and berm.					

Photo 1 of 1 : SP_2017_RD2098_247_13_20170523_00013.jpg



RD 2098 Unit 3 levee mile 7.77-8.66 landside slope.

LM Start	7.87	Rating **	M	Issue No.	9
LM End	7.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.301707 °	38.301707 °
				-121.728045 °	-121.728045 °
DWR ID	DWR_RD2098_03_s_2014_9				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the dead tree from the waterside slope.					

No Photos

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	04/25/2017 04/25/2017	Herman Phillips

LM Start	8.16	Rating **	A/W	Issue No.	18
LM End	8.16	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.305462 °	38.305462 °
				-121.728881 °	-121.728881 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51453
DS_ID:20981
EP_NO: 10174
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 12/22/2016 Crossing has been downgraded from Urgent to No Action Needed walkways on both WS and LS have been rebuilt and the WS gate has been upgraded to stainless steel where previous corrodable material was present. (O. Magana - DWR UCIP)03/19/2014 Current walkway to slidegate on WS toe does not provide safe access to operate slidegate. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 36-inch steel dual purpose irrigation and drainage pipe through the levee, 26 feet below the crown. Two CM cutoff walls around pipe. Walkway to slide gate is located on the waterside (WS) end. Combination slide and flap gate located on the landside (LS) end. 48-inch corrugated metal pipe (CMP) riser and an adjoining pump on a metal pier at LS toe. (36-inch pipe authorized [HLM 8.20] under Automatic Board Order (ABO) issued as Permit No. 10174, 1974 - Bowsbey) [Additional Reference(s): DWR Levee Log, 2003. USACE Sacramento O&M Manual Unit 109, April 1962, (HLM 8.20)].
FS Date: 12/22/2016

LM Start	8.16	Rating **	A/W	Issue No.	18 (cont)
LM End	8.16	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP_SP_2017_51453_76858.jpg



Walkway has been re-built, photo 1 of 2.

Photo 2 of 3 : UCIP_SP_2017_51453_76861.jpg



Walkway has been re-built, photo 2 of 2.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	04/25/2017 04/25/2017	Herman Phillips

LM Start	8.16	Rating **	A/W	Issue No.	18 (cont)	
LM End	8.16	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.305462 °	38.305462 °	
				-121.728881 °	-121.728881 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51453 DS_ID:20981 EP_NO: 10174 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 12/22/2016 Crossing has been downgraded from Urgent to No Action Needed walkways on both WS and LS have been rebuilt and the WS gate has been upgraded to stainless steel where previous corrodable material was present. (O. Magana - DWR UCIP)03/19/2014 Current walkway to slidegate on WS toe does not provide safe access to operate slidegate. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 36-inch steel dual purpose irrigation and drainage pipe through the levee, 26 feet below the crown. Two CM cutoff walls around pipe. Walkway to slide gate is located on the waterside (WS) end. Combination slide and flap gate located on the landside (LS) end. 48-inch corrugated metal pipe (CMP) riser and an adjoining pump on a metal pier at LS toe. (36-inch pipe authorized [HLM 8.20] under Automatic Board Order (ABO) issued as Permit No. 10174, 1974 - Bowsbey) [Additional Reference(s): DWR Levee Log, 2003. USACE Sacramento O&M Manual Unit 109, April 1962, (HLM 8.20)]. FS Date: 12/22/2016						

Photo 3 of 3 : UCIP_SP_2017_51453_76859.jpg



View of levee crown at pipe crossing.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	04/25/2017 04/25/2017	Herman Phillips

LM Start	8.35	Rating **	A/W	Issue No.	19
LM End	8.35	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.306916 °	38.306916 °
				-121.731984 °	-121.731984 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32384					
DS_ID:20962					
EP_NO: 10174					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 60-inch CM drainpipe through the levee, 25.5 feet below the crown. Walkway to slide gates at both ends of pipe (Permit No. 1607, 1951). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.40 ,USACE-1962). This pipe was retained under ABO No. 10174 (1974).					
FS Date: 3/19/2014					

LM Start	8.35	Rating **	A/W	Issue No.	19 (cont)
LM End	8.35	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : UCIP_SP_2017_32384_58883.jpg



Slide gate at LS toe.

Photo 2 of 2 : UCIP_SP_2017_32384_58882.jpg



Walkway with slide gate on WS toe.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	04/25/2017 04/25/2017	Herman Phillips

LM Start	8.36	Rating **	M	Issue No.	14
LM End	9.11	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.306997 °	38.315668 °
				-121.732010 °	-121.739773 °
DWR ID	DWR_RD2098_03_s_2017_14				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

No Photos

LM Start	8.56	Rating **	M	Issue No.	15
LM End	9.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.309183 °	38.315668 °
				-121.734327 °	-121.739773 °
DWR ID	DWR_RD2098_03_s_2017_15				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	8.66	Rating **	M	Issue No.	16
LM End	9.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.310702 °	38.315668 °
				-121.734617 °	-121.739773 °
DWR ID	DWR_RD2098_03_s_2017_16				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

Unit Cover Sheet

Spring 2017 Levee Inspection Results

Reclamation District No. 2098 Cache and Haas Slough

Waterway			Bank	Unit Miles
Unit No. 04 Back Levee			Left	2.95
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/25/2017 - 4/25/2017			
DWR Inspector	Herman Phillips			
Accompanied By				

Summer & Winter Inspections

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

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	04/25/2017 04/25/2017	Herman Phillips

LM Start	9.17	Rating **	A	Issue No.	11
LM End	9.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.316448 °	38.325352 °
				-121.740083 °	-121.740162 °
DWR ID	DWR_RD2098_04_s_2017_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	9.17	Rating **	M	Issue No.	10
LM End	12.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.316448 °	38.357957 °
				-121.740083 °	-121.740360 °
DWR ID	DWR_RD2098_04_s_2017_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control the annual grasses and weeds on the landside levee slope.					

Photo 1 of 1 : SP_2017_RD2098_248_10_20170523_00019.jpg



RD 2098 Landside levee mile 9.17-12.06.

LM Start	9.18	Rating **	M	Issue No.	12
LM End	9.78	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.316488 °	38.325268 °
				-121.740077 °	-121.740117 °
DWR ID	DWR_RD2098_04_s_2017_12				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	04/25/2017 04/25/2017	Herman Phillips

LM Start	9.34	Rating **	M	Issue No.	13
LM End	9.60	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.318820 °	38.322600 °
				-121.740065 °	-121.740132 °
DWR ID	DWR_RD2098_04_s_2017_13				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	9.44	Rating **	C	Issue No.	1
LM End	9.74	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.320240 °	38.324587 °
				-121.740183 °	-121.740254 °
DWR ID	DWR_RD2098_04_f_2016_1				
Comment Code					
Inspector Comment					
2011 - Several scallops of erosion. Erosion primarily due to the weight of cattle on the slope. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: HAS_9-7_L]					

No Photos

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	04/25/2017 04/25/2017	Herman Phillips

LM Start	9.49	Rating **	M	Issue No.	18
LM End	9.49	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.321032 °	38.321032 °
				-121.740154 °	-121.740154 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32383 DS_ID:20983 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: need to verify status of gaslines in region with PG&E (888) 743-7431 Fax: Email: PipelineRequests@pge.com FIELD_STRUCT_DESC: 4-inch gas pipe through the levee, 2.0 feet below the crown. Shutoff valve located 370-feet east of levee crown. FS Date: 3/19/2014					

Photo 1 of 2 : UCIP_SP_2017_32383_58881.jpg



Shutoff valve visible 370-feet off LS toe.

LM Start	9.49	Rating **	M	Issue No.	18 (cont)
LM End	9.49	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2017_32383_58880.jpg



Shutoff valve visible 370-feet off LS toe.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	04/25/2017 04/25/2017	Herman Phillips

LM Start	9.68	Rating **	M	Issue No.	8
LM End	9.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.323749 °	38.324467 °	
			-121.740148 °	-121.740155 °	
DWR ID	DWR_RD2098_04_s _ 2014_8				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

No Photos

LM Start	9.73	Rating **	M	Issue No.	14
LM End	9.77	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		38.324430 °	38.325085 °	
			-121.740137 °	-121.740128 °	
DWR ID	DWR_RD2098_04_s _ 2017_14				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	9.88	Rating **	M	Issue No.	16
LM End	12.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.326417 °	38.357957 °	
			-121.740670 °	-121.740362 °	
DWR ID	DWR_RD2098_04_s _ 2017_16				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	04/25/2017 04/25/2017	Herman Phillips

LM Start	10.02	Rating **	M	Issue No.	17
LM End	10.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.328368 °	38.328438 °
				-121.740617 °	-121.740612 °
DWR ID	DWR_RD2098_04_s_2017_17				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	11.07	Rating **	M	Issue No.	19
LM End	11.07	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.343608 °	38.343608 °
				-121.740836 °	-121.740836 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32403 DS_ID:20991 EP_NO: 12851 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Holes in pipe next to rail car bridge may indicate further deterioration of pipe through leve. Good candidate for video inspection. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 2-feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on Landside toe at canal. 1-inch PVC electrical conduit at same location (Permit No. 12851-1980) FS Date: 3/19/2014					

Photo 1 of 3 : UCIP_SP_2017_32403_58905.jpg



Pipe and siphon breaker visible on LS at canal crossing.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	04/25/2017 04/25/2017	Herman Phillips

LM Start	11.07	Rating **	M	Issue No.	19 (cont)	
LM End	11.07	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.343608 °	38.343608 °	
				-121.740836 °	-121.740836 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32403 DS_ID:20991 EP_NO: 12851 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Holes in pipe next to rail car bridge may indicate further deterioration of pipe through leve. Good candidate for video inspection. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 2-feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on Landside toe at canal. 1-inch PVC electrical conduit at same location (Permit No. 12851-1980) FS Date: 3/19/2014						

Photo 2 of 3 : UCIP_SP_2017_32403_58904.jpg



Pump on pier in irrigation canal off WS toe.

LM Start	11.07	Rating **	M	Issue No.	19 (cont)
LM End	11.07	Issue Type +	En	Location *	LS

Photo 3 of 3 : UCIP_SP_2017_32403_58903.jpg



Holes in pipe next to bridge. PVC electrical conduit shown.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	04/25/2017 04/25/2017	Herman Phillips

LM Start	11.12	Rating **	U	Issue No.	20							
LM End	11.12	Issue Type +	En	Location *	LS							
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DWR UCIP Field Study		38.344349 °	38.344349 °								
			-121.740794 °	-121.740794 °								
DWR ID												
Comment Code												
Inspector Comment												
FS_ID:51457 DS_ID:20995 EP_NO: 17842 Repair Type: Urgent Crossing Status: Found UCIP Comments: 12/22/2016 same as previous inspection crossing remains Urgent due to unknown status of gas line--no markers present. According to LMA representative, RD 2068 issued a permit for a gas line however, the current status of this line is unknown. Permit issued by RD 2068 is 20040903. Need to contact owner to determine status of crossing. Markers will need to be installed per Title 23. (O. Magana - DWR UCIP)03/19/2014 No markers found. Need to contact owner to determine status and location. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 3-inch gas pipe bored under channel and levee, approximately 37 feet below the crown. (3-inch natural gas line authorized under Permit No. 17842, 2004 - Castle Minerals, Inc.) FS Date: 12/22/2016												

Photo 1 of 1 : UCIP_SP_2017_51457_76889.jpg



Enter photo 2 description or comment here.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	04/25/2017 04/25/2017	Herman Phillips

LM Start	12.05	Rating **	U	Issue No.	21
LM End	12.05	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.357841 °	38.357841 °
				-121.740396 °	-121.740396 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51454
DS_ID:20989
EP_NO: 11564
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 12/06/2016 Crossing has been upgraded from Non-Urgent to Urgent due to sections of the wall missing on the LS. Crossing is also opened on both WS and LS. According to Mr. Mike Hardesty, this crossing is not abandoned the crossing is out of service for now. Recommend internal integrity inspection and coordinating with CVFPB to comply with Title 23. (O. Magana - DWR UCIP)03/19/2014 Pipe appears abandoned and if so should be done so properly. Pipe rusted through at outlet in canal. This may indicate further degradation of pipe within the levee. Good candidate for video inspection. (W. Wylie - DWR UCIP)
FIELD_STRUCT_DESC: 18-inch steel drainage pipe through the levee, 2 feet below the crown. Steel cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe located on the landside (LS) shoulder. Pump missing from steel pump pad over 4-foot by 4-foot concrete sump located on the waterside (WS) toe. (18-inch authorized under Permit No. 11564, 1976 - Reclamation District No. 2068). [Additional Reference(s): DWR Levee Log, 2003].
FS Date: 12/6/2016

LM Start	12.05	Rating **	U	Issue No.	21 (cont)
LM End	12.05	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_51454_76867.jpg



Overview of levee crown at multiple pipe crossings.

Photo 2 of 3 : UCIP_SP_2017_51454_76872.jpg



View of WS photo taken from levee crown.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	04/25/2017 04/25/2017	Herman Phillips

LM Start	12.05	Rating **	U	Issue No.	21 (cont)	
LM End	12.05	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.357841 °		38.357841 °
				-121.740396 °		-121.740396 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51454 DS_ID:20989 EP_NO: 11564 Repair Type: Urgent Crossing Status: Found UCIP Comments: 12/06/2016 Crossing has been upgraded from Non-Urgent to Urgent due to sections of the wall missing on the LS. Crossing is also opened on both WS and LS. According to Mr. Mike Hardesty, this crossing is not abandoned the crossing is out of service for now. Recommend internal intergrity inspection and coordinating with CVFPB to comply with Title 23. (O. Magana - DWR UCIP)03/19/2014 Pipe appears abandoned and if so should be done so properly. Pipe rusted through at outlet in canal. This may indicate further degradation of pipe within the levee. Good candidate for video inspection. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 18-inch steel drainage pipe through the levee, 2 feet below the crown. Steel cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe located on the landside (LS) shoulder. Pump missing from steel pump pad over 4-foot by 4-foot concrete sump located on the waterside (WS) toe. (18-inch authorized under Permit No. 11564, 1976 - Reclamation District No. 2068). [Additional Reference(s): DWR Levee Log, 2003]. FS Date: 12/6/2016						

Photo 3 of 3 : UCIP_SP_2017_51454_76868.jpg



View of WS--pipe crossing is located on the right.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	04/25/2017 04/25/2017	Herman Phillips

LM Start	12.05	Rating **	U	Issue No.	22
LM End	12.05	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.357863 °	38.357863 °
				-121.740394 °	-121.740394 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51455 DS_ID:20990 EP_NO: 5426-A Repair Type: Urgent Crossing Status: Found UCIP Comments: 12/06/2016 Crossing is opened on both WS and LS. Concrete box located on the LS has been removed. According to Mr. Mike Hardesty, this crossing is not abandoned the crossing is out of service for now. Recommend internal integrity inspection and coordinating with CVFPB to comply with Title 23. (O. Magana - DWR UCIP)03/19/2014 Pipe appears abandoned and if so should be done so properly. Foundation for concrete distribution box on LS toe at canal has failed. Box has fallen into canal and LS slope has erosion at same location. Pipe open on both ends. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 1 of 2: 18-inch steel drainage pipe (permit recordation indicates one 14-inch and one 18-inch pipe to be installed) through the levee, 3 feet below the crown. Vertical pump missing from steel platform over 7-foot by 4-foot concrete box located on the waterside (WS) toe. Concrete cattle guard structure (7-foot length by 15-foot wide by 4-foot deep) located on the crown around pipes. Discharge structure is located on the landside (LS) slope. (Permit No. 5426 and 5426A, 1967 - Reclamation District No. 2068) [Additional Reference(s): DWR Levee Log, 2003]. FS Date: 12/6/2016					

LM Start	12.05	Rating **	U	Issue No.	22 (cont)
LM End	12.05	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_51455_76875.jpg



Overview of levee crown at multiple pipe crossings.

Photo 2 of 3 : UCIP_SP_2017_51455_76876.jpg



View of LS--damaged concrete distribution box has been removed.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	04/25/2017 04/25/2017	Herman Phillips

LM Start	12.05	Rating **	U	Issue No.	22 (cont)	
LM End	12.05	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.357863 °		38.357863 °
				-121.740394 °		-121.740394 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51455 DS_ID:20990 EP_NO: 5426-A Repair Type: Urgent Crossing Status: Found UCIP Comments: 12/06/2016 Crossing is opened on both WS and LS. Concrete box located on the LS has been removed. According to Mr. Mike Hardesty, this crossing is not abandoned the crossing is out of service for now. Recommend internal integrity inspection and coordinating with CVFPB to comply with Title 23. (O. Magana - DWR UCIP)03/19/2014 Pipe appears abandoned and if so should be done so properly. Foundation for concrete distribution box on LS toe at canal has failed. Box has fallen into canal and LS slope has erosion at same location. Pipe open on both ends. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 1 of 2: 18-inch steel drainage pipe (permit recordation indicates one 14-inch and one 18-inch pipe to be installed) through the levee, 3 feet below the crown. Vertical pump missing from steel platform over 7-foot by 4-foot concrete box located on the waterside (WS) toe. Concrete cattle guard structure (7-foot length by 15-foot wide by 4-foot deep) located on the crown around pipes. Discharge structure is located on the landside (LS) slope. (Permit No. 5426 and 5426A, 1967 - Reclamation District No. 2068) [Additional Reference(s): DWR Levee Log, 2003]. FS Date: 12/6/2016						

Photo 3 of 3 : UCIP_SP_2017_51455_58817.jpg



Concrete distribution box on LS slope has slipped into canal.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	04/25/2017 04/25/2017	Herman Phillips

LM Start	12.05	Rating **	U	Issue No.	23
LM End	12.05	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.357870 °	38.357870 °
				-121.740396 °	-121.740396 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51456 DS_ID:21013 EP_NO: 5426-A Repair Type: Urgent Crossing Status: Found UCIP Comments: 12/06/2016 Crossing is opened on both WS and LS. Concrete box located on the LS has been removed. According to Mr. Mike Hardesty, this crossing is not abandoned the crossing is out of service for now. Recommend internal integrity inspection and coordinating with CVFPB to comply with Title 23. (O. Magana - DWR UCIP)03/19/2014 Pipe appears abandoned and if so should be done so properly. Foundation for concrete distribution box on LS toe at canal has failed. Box has fallen into canal and LS slope has erosion at same location. Pipe open on both ends. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 2 of 2: 18-inch steel drainage pipe (permit recordation indicates one 14-inch and one 18-inch pipe to be installed) through the levee, 3 feet below the crown. Vertical pumps missing from steel pad over 7-foot by 4-foot concrete sump located on the waterside (WS) toe. Concrete cattle guard structure (7-foot length by 15-foot wide by 4-foot deep) located on the crown around pipes. Discharge structure is located on the landside (LS) slope. (Permit No. 5426 & 5426A, 1967 - Reclamation District No. 2068) [Additional Reference(s): DWR Levee Log, 2003]. FS Date: 12/6/2016					

LM Start	12.05	Rating **	U	Issue No.	23 (cont)
LM End	12.05	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_51456_76883.jpg



Overview of levee crown at multiple crossings.

Photo 2 of 3 : UCIP_SP_2017_51456_76884.jpg



View of LS--damage distribution box noted in last inspection has been removed.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	04/25/2017 04/25/2017	Herman Phillips

LM Start	12.05	Rating **	U	Issue No.	23 (cont)
LM End	12.05	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.357870 °	38.357870 °
				-121.740396 °	-121.740396 °
DWR ID					

Comment Code

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Inspector Comment

FS_ID:51456
DS_ID:21013
EP_NO: 5426-A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 12/06/2016 Crossing is opened on both WS and LS. Concrete box located on the LS has been removed. According to Mr. Mike Hardesty, this crossing is not abandoned the crossing is out of service for now. Recommend internal integrity inspection and coordinating with CVFPB to comply with Title 23. (O. Magana - DWR UCIP)03/19/2014 Pipe appears abandoned and if so should be done so properly. Foundation for concrete distribution box on LS toe at canal has failed. Box has fallen into canal and LS slope has erosion at same location. Pipe open on both ends. (W. Wylie - DWR UCIP)
FIELD_STRUCT_DESC: 2 of 2: 18-inch steel drainage pipe (permit recordation indicates one 14-inch and one 18-inch pipe to be installed) through the levee, 3 feet below the crown. Vertical pumps missing from steel pad over 7-foot by 4-foot concrete sump located on the waterside (WS) toe. Concrete cattle guard structure (7-foot length by 15-foot wide by 4-foot deep) located on the crown around pipes. Discharge structure is located on the landside (LS) slope. (Permit No. 5426 & 5426A, 1967 - Reclamation District No. 2068) [Additional Reference(s): DWR Levee Log, 2003].
FS Date: 12/6/2016

Photo 3 of 3 : UCIP_SP_2017_51456_76885.jpg



Inside view of pipe from LS.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	04/25/2017 04/25/2017	Herman Phillips

LM Start	12.07	Rating **	M	Issue No.	24
LM End	12.07	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.358110 °	38.358110 °
				-121.740381 °	-121.740381 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32566					
DS_ID:24845					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to verify status with gas company and install signs. No permit identified for crossing, though it may be connected to a permitted line installed in RD 2068 under Permit No. 13490.					
FIELD_STRUCT_DESC: 6-inch steel gasoline through the levee 3-feet below the crown. Signs on East side of levee. Pipe visible on downstream side of roadway bridge.					
FS Date: 3/19/2014					

Photo 1 of 3 : UCIP_SP_2017_32566_59110.jpg



Pipe visible on South side of Bridge at Swan Road.

LM Start	12.07	Rating **	M	Issue No.	24 (cont)
LM End	12.07	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_SP_2017_32566_59109.jpg



Pipe visible on South side of Bridge at Swan Road.

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

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	04/25/2017 04/25/2017	Herman Phillips

LM Start	12.07	Rating **	M	Issue No.	24 (cont)	
LM End	12.07	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.358110 °		38.358110 °
				-121.740381 °		-121.740381 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32566						
DS_ID:24845						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to verify status with gas company and install signs. No permit identified for crossing, though it may be connected to a permitted line installed in RD 2068 under Permit No. 13490.						
FIELD_STRUCT_DESC: 6-inch steel gasoline through the levee 3-feet below the crown. Signs on East side of levee. Pipe visible on downstream side of roadway bridge.						
FS Date: 3/19/2014						

Photo 3 of 3 : UCIP_SP_2017_32566_59108.jpg



Sign off LS toe on East side of canal.

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