

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2015 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 2015 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	05/14/2015 - 05/14/2015			
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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	05/14/2015 05/14/2015	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			o	o
DWR ID	DWR_RD2098_01_f_2014_3				
Action/Comments					
Inspector Comments: RD 2098 has the O&M Manual on file.					

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			o	o
DWR ID	DWR_RD2098_01_f_2014_4				
Action/Comments					
Inspector Comments: RD 2098 has emergency supplies and equipment in storage.					

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			o	o
DWR ID	DWR_RD2098_01_f_2014_5				
Action/Comments					
Inspector Comments: RD 2098 has their team well prepared for a 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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	05/14/2015 05/14/2015	Herman Phillips

LM Start	0.14	Rating **	A	Issue No.	10
LM End	3.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.327017 °	38.277623 °	
			-121.694053 °	-121.696213 °	
DWR ID	DWR_RD2098_01_s_2015_10				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_RD2098_244_10_20150604_00002.jpg



Looking downstream at the waterside levee slope.

LM Start	0.14	Rating **	A	Issue No.	11
LM End	3.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.327010 °	38.277623 °	
			-121.694055 °	-121.696213 °	
DWR ID	DWR_RD2098_01_s_2015_11				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_RD2098_244_11_20150604_00001.jpg



View looking downstream at the landside levee slope.

LM Start	0.84	Rating **	M	Issue No.	12
LM End	0.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.316845 °	38.316845 °	
			-121.694007 °	-121.694007 °	
DWR ID	DWR_RD2098_01_s_2015_12				
Action/Comments					
Note and monitor erosion site.					

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**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	05/14/2015 05/14/2015	Herman Phillips

LM Start	1.76	Rating **	M	Issue No.	13
LM End	1.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.303590 °	38.303590 °
				-121.693613 °	-121.693613 °
DWR ID	DWR_RD2098_01_s_2015_13				
Action/Comments					
Note and monitor erosion site.					

No Photos

LM Start	1.81	Rating **	M	Issue No.	14
LM End	1.81	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.302770 °	38.302770 °
				-121.693640 °	-121.693640 °
DWR ID					
Action/Comments					
Inspector Comments: 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: 03/18/2014					

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**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Right	3.60	05/14/2015 05/14/2015	Herman Phillips

LM Start	3.49	Rating **	M	Issue No.	19
LM End	3.49	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					
Action/Comments					
Inspector Comments: 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: 03/18/2014					

No Photos

LM Start	3.49	Rating **	M	Issue No.	20
LM End	3.49	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					
Action/Comments					
Inspector Comments: 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: 03/18/2014					

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 2015 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	05/14/2015 - 05/14/2015			
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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01A Cross Levee	Right	0.53	05/14/2015 05/14/2015	Herman Phillips

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.277408 °	38.275722 °
				-121.696282 °	-121.705772 °
DWR ID	DWR_RD2098_01A_s_2015_2				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_RD2098_245_2_20150604_00001.jpg



View looking at the landside slope.

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.277408 °	38.275722 °
				-121.696282 °	-121.705772 °
DWR ID	DWR_RD2098_01A_s_2015_3				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

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 2015 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	05/14/2015 - 05/14/2015			
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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	05/14/2015 05/14/2015	Herman Phillips

LM Start	5.31	Rating **	A	Issue No.	9
LM End	6.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.275935 °	38.292505 °	
			-121.705900 °	-121.716120 °	
DWR ID	DWR_RD2098_02_s_2015_9				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	5.31	Rating **	A	Issue No.	11
LM End	6.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.275935 °	38.292505 °	
			-121.705900 °	-121.716120 °	
DWR ID	DWR_RD2098_02_s_2015_11				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_RD2098_246_11_20150604_00003.jpg



View looking downstream at levee section.

* 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**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	05/14/2015 05/14/2015	Herman Phillips

LM Start	5.74	Rating **	M	Issue No.	20
LM End	5.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.280788 °	38.280788 °
				-121.709617 °	-121.709617 °
DWR ID					
Action/Comments					
Inspector Comments: 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: 03/18/2014					

No Photos

LM Start	6.70	Rating **	C	Issue No.	10
LM End	6.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.292076 °	38.292076 °
				-121.715792 °	-121.715792 °
DWR ID	DWR_RD2098_02_s_2014_10				
Action/Comments					
Repair slope instability. Inspector Comments: RD 2098 will send out crew to inspect site and make repairs as needed.					

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**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	05/14/2015 05/14/2015	Herman Phillips

LM Start	6.73	Rating **	M	Issue No.	21
LM End	6.73	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.292194 °	38.292194 °
				-121.715853 °	-121.715853 °
DWR ID					
Action/Comments					
Inspector Comments: 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: 03/18/2014					

No Photos

LM Start	6.73	Rating **	U	Issue No.	4
LM End	6.73	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			38.292428 °	38.292428 °
				-121.716062 °	-121.716062 °
DWR ID	DWR_RD2098_02_f_2013_4				
Action/Comments					
Inspector Comments: This gate is damaged and requires replacement.					

Photo 1 of 1 : SP_2015_RD2098_246_4_20150604_00004.jpg



View of the broken gate.

* 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**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	05/14/2015 05/14/2015	Herman Phillips

LM Start	6.73	Rating **	M	Issue No.	22
LM End	6.73	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.292234 °	38.292234 °
				-121.715875 °	-121.715875 °
DWR ID					
Action/Comments					
Inspector Comments: 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: 03/18/2014					

No Photos

LM Start	6.84	Rating **	M	Issue No.	16
LM End	7.10	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.292972 °	38.293010 °
				-121.717822 °	-121.722695 °
DWR ID	DWR_RD2098_02_s_2015_16				
Action/Comments					
Keep the crown roadway free of vegetation.					

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**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	05/14/2015 05/14/2015	Herman Phillips

LM Start	7.09	Rating **	U	Issue No.	17
LM End	7.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.292975 °	38.293008 °
				-121.722357 °	-121.723457 °
DWR ID	DWR_RD2098_02_s_2015_17				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove the unacceptable weeds from the landside slope.					

Photo 1 of 1 : SP_2015_RD2098_246_17_20150604_00008.jpg



View of unacceptable weeds on the landside levee slope.

LM Start	7.10	Rating **	M	Issue No.	18
LM End	7.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.293012 °	38.293012 °
				-121.722560 °	-121.722560 °
DWR ID	DWR_RD2098_02_s_2015_18				
Action/Comments					
Repair slope instability.					

No Photos

LM Start	7.15	Rating **	U	Issue No.	19
LM End	7.15	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			38.293008 °	38.293008 °
				-121.723457 °	-121.723457 °
DWR ID	DWR_RD2098_02_s_2015_19				
Action/Comments					
Inspector Comments: Repair the broken gate.					

Photo 1 of 2 : SP_2015_RD2098_246_19_20150604_00006.jpg



View of the broken gate hinge.

* 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**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	05/14/2015 05/14/2015	Herman Phillips

LM Start	7.15	Rating **	U	Issue No.	19 (cont)
LM End	7.15	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			38.293008 °	38.293008 °
				-121.723457 °	-121.723457 °
DWR ID	DWR_RD2098_02_s_2015_19				
Action/Comments					
Inspector Comments: Repair the broken gate.					

Photo 2 of 2 : SP_2015_RD2098_246_19_20150604_00007.jpg



View of the broken gate crossing levee crown.

LM Start	7.21	Rating **	M	Issue No.	23
LM End	7.21	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.293139 °	38.293139 °
				-121.724174 °	-121.724174 °
DWR ID					
Action/Comments					
Inspector Comments: 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: 03/18/2014					

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**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	1.89	05/14/2015 05/14/2015	Herman Phillips

LM Start	7.27	Rating **	M	Issue No.	24
LM End	7.27	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.293741 °	38.293741 °
				-121.724787 °	-121.724787 °
DWR ID					
Action/Comments					
Inspector Comments: 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: 03/18/2014					

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 2015 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	05/14/2015 - 05/14/2015			
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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	05/14/2015 05/14/2015	Herman Phillips

LM Start	7.22	Rating **	U	Issue No.	8
LM End	7.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.293483 °	38.300218 °
				-121.724547 °	-121.728303 °
DWR ID	DWR_RD2098_03_s_2015_8				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove the tall weeds from the landside slope.					

Photo 1 of 1 : SP_2015_RD2098_247_8_20150604_00007.jpg



View of unacceptable tall weeds on the landside levee slope.

LM Start	7.25	Rating **	U	Issue No.	10
LM End	7.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.293902 °	38.297882 °
				-121.724890 °	-121.728647 °
DWR ID	DWR_RD2098_03_s_2015_10				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove the unacceptable tall weeds from the waterside slope.					

Photo 1 of 1 : SP_2015_RD2098_247_10_20150604_00008.jpg



View of unacceptable tall weeds on the waterside levee shoulder and slope.

LM Start	7.33	Rating **	M	Issue No.	7
LM End	7.72	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.294858 °	38.299606 °
				-121.725433 °	-121.728621 °
DWR ID	DWR_RD2098_03_f_2014_7				
Action/Comments					
Inspector Comments: 2011 - Large vertical erosion pockets and bank slumping. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: HAS_7-9_L] The USAC Placed rock at this site,					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	05/14/2015 05/14/2015	Herman Phillips

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				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: 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 **	U	Issue No.	20
LM End	7.42	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.295669 °	38.295669 °	
			-121.725980 °	-121.725980 °	
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32389 DS_ID:20979 EP_NO: 2591 Repair Type: Urgent Crossing Status: Found UCIP Comments: Both walkways to slidegates in poor structural condition. Can not safely access slide gate on WS slope. FIELD_STRUCT_DESC: 30-inch CM irrigation/drain pipe through the levee, 25.0 feet below the crown. Two CM cutoff walls around pipe at both shoulders. Walkways to slide gates at both ends of pipe. (Permit No. 2591-1959) FS Date: 03/19/2014					

No Photos

LM Start	7.45	Rating **	M	Issue No.	4
LM End	7.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.295930 °	38.298142 °	
			-121.727043 °	-121.739715 °	
DWR ID	DWR_RD2098_03_s_2013_4				
Action/Comments					
Repair slope instability. Inspector Comments: There is erosion on waterside covered by tullies.					

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**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Haas Slough	Right	1.94	05/14/2015 05/14/2015	Herman Phillips

LM Start	8.46	Rating **	U	Issue No.	19
LM End	8.69	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.308293 °	38.311033 °	
			-121.732993 °	-121.734652 °	
DWR ID	DWR_RD2098_03_s_2015_19				
Action/Comments					
Keep the crown roadway free of vegetation. Inspector Comments: Control the weeds off the crown roadway.					

Photo 1 of 1 : SP_2015_RD2098_247_19_20150604_00009.jpg



View of unacceptable weeds 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2015 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	05/14/2015 - 05/14/2015			
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 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	05/14/2015 05/14/2015	Herman Phillips

LM Start	9.15	Rating **	M	Issue No.	4
LM End	9.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.316167 °	38.316167 °	
			-121.740120 °	-121.740115 °	
DWR ID	DWR_RD2098_04_s_2014_4				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : SP_2015_RD2098_248_4_20150604_00002.jpg



View looking downstream along the landside slope.

LM Start	9.53	Rating **	M	Issue No.	13
LM End	9.53	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.321032 °	38.321032 °	
			-121.740154 °	-121.740154 °	
DWR ID					
Action/Comments					
Inspector Comments: 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: 03/19/2014					

No Photos

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				
Action/Comments					
Note and monitor erosion site.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	05/14/2015 05/14/2015	Herman Phillips

LM Start	9.71	Rating **	M	Issue No.	10
LM End	12.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.324248 °	38.358122 °	
			-121.740128 °	-121.740388 °	
DWR ID	DWR_RD2098_04_s_2015_10				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	9.73	Rating **	M	Issue No.	11
LM End	12.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.324492 °	38.358122 °	
			-121.740127 °	-121.740388 °	
DWR ID	DWR_RD2098_04_s_2015_11				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	9.77	Rating **	U	Issue No.	12
LM End	9.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.325062 °	38.325265 °	
			-121.740128 °	-121.740100 °	
DWR ID	DWR_RD2098_04_s_2015_12				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Remove the unacceptable vegetation.					

Photo 1 of 1 : SP_2015_RD2098_248_12_20150604_00003.jpg



View of unacceptable tall weeds on the waterside levee slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 2098 Cache and Haas Slough

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Back Levee	Left	2.95	05/14/2015 05/14/2015	Herman Phillips

LM Start	12.10	Rating **	U	Issue No.	18
LM End	12.10	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.357870 °	38.357870 °
				-121.740396 °	-121.740396 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32325 DS_ID:21013 EP_NO: 5426-A Repair Type: Urgent Crossing Status: Found UCIP Comments: 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. FIELD_STRUCT_DESC: 2 of 2: 18-inch steel drainpipe through the levee, 3.0 feet below the crown. Vertical pumps missing from steel pad over 7'X4' concrete sump on WS toe. Concrete cattle guard structure (7x15x4 foot) on crown around pipes. Discharge structure on landward slope. (Permit No. 5426A-1967) FS Date: 03/19/2014					

No Photos

LM Start	12.11	Rating **	M	Issue No.	19
LM End	12.11	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.358110 °	38.358110 °
				-121.740381 °	-121.740381 °
DWR ID					
Action/Comments					
Inspector Comments: 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 gasline through the levee 3-feet below the crown. Signs on East side of levee. Pipe visible on downstream side of roadway bridge. FS Date: 03/19/2014					

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
--	--	---	---