

**Flood Control Project Maintenance
Levee Inspections**

Fall 2019 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD2060	Overall LMA Rating	Total LMA Miles							
Reclamation District No. 2060 Hastings	U	15.65							
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation	1.84		1.84	11.76%					
Encroachments					3.26				
Slope Stability	0.40		0.40	2.56%					
Crown Surface / Depressions / Rutting	0.01		0.01	0.06%					
<i>Supplemental</i>									
2017 USACE Erosion Survey	0.13		0.13	0.83%					
DRAFT DWR UCIP Field Study					0.09				
2017 Storm Damage	1.00		1.00	6.39%					
<i>LMA Totals:</i>	3.38	0.00	3.38	21.60%	3.35	0.00	0.00	0.00	

Unit No. 01 Lindsey Slough LB	Overall Unit Rating	Total Unit Miles							
RD2060	U	6.97							
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation	1.84		1.84	26.40%					
<i>Supplemental</i>									
2017 USACE Erosion Survey	0.13		0.13	1.87%					
DRAFT DWR UCIP Field Study					0.03				
2017 Storm Damage	0.28		0.28	4.02%					
<i>Unit Totals:</i>	2.25	0.00	2.25	32.28%	0.03	0.00	0.00	0.00	

Unit No. 02 Ulatis Creek RB	Overall Unit Rating	Total Unit Miles							
RD2060	M	3.64							
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Encroachments					3.26				
Slope Stability	0.39		0.39	10.71%					
Crown Surface / Depressions / Rutting	0.01		0.01	0.28%					
<i>Supplemental</i>									
DRAFT DWR UCIP Field Study					0.03				
<i>Unit Totals:</i>	0.40	0.00	0.40	10.98%	3.29	0.00	0.00	0.00	

Unit No. 03 Cache Slough RB	Overall Unit Rating	Total Unit Miles							
RD2060	M	5.03							
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Slope Stability	0.01		0.01	0.20%					
<i>Supplemental</i>									
DRAFT DWR UCIP Field Study					0.03				
2017 Storm Damage	0.72		0.72	14.30%					
<i>Unit Totals:</i>	0.73	0.00	0.73	14.50%	0.03	0.00	0.00	0.00	

**Flood Control Project Maintenance
Levee Inspections
LMA District Cover Sheet
Fall 2019 Levee Inspection Results**

Reclamation District No. 2060 Hastings

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

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

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

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

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2019 Levee Inspection Results

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles
Unit No. 01 Lindsey Slough	Left	6.97

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	4/9/2019 - 4/9/2019		10/15/2019 - 10/15/2019	
DWR Inspector	David Julian		David Julian	
Accompanied By	Mark Boyd RD 2060 Hastings Tract		Mark Boyd RD 2060 Hastings Tract	
	Michael Moncrief MBK Engineers		Michael Moncrief MBK Engineers	

Summer & Winter Inspections

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

DWR must be informed on the:

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

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/15/2019 10/15/2019	David Julian

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals		o	o	o
			o	o	o
DWR ID	DWR_RD2060_01_f_2014_4				
Comment Code					
Inspector Comment					
RD 2060 has the O&M Manual on file.					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment		o	o	o
			o	o	o
DWR ID	DWR_RD2060_01_f_2014_7				
Comment Code					
Inspector Comment					
RD 2060 has emergency supplies on hand.					

No Photos

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training		o	o	o
			o	o	o
DWR ID	DWR_RD2060_01_s_2012_12				
Comment Code					
Inspector Comment					
RD 2060 has trained staff 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/15/2019 10/15/2019	David Julian

LM Start	0.40	Rating **	M	Issue No.	5
LM End	0.40	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.247894 °	38.247911 °
				-121.703492 °	-121.703539 °
DWR ID	LMA-185				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description: Erosion commences approximately 3/4 of the way down the slope, near the water line towards the waterside toe.					
Site ID No: 358					
Site Designation: LMA-185					
Repair Type: Erosion					
Rating: Area of Concern					
Field Date: 7/12/2017					
Notes: Small erosion into bank.					

Photo 1 of 6 : FA_2019_RD2060_241_5_20190826_00001.jpg



LM Start	0.40	Rating **	M	Issue No.	5 (cont)
LM End	0.40	Issue Type +	Ma	Location *	WS

Photo 2 of 6 : FA_2019_RD2060_241_5_20190826_00002.jpg



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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/15/2019 10/15/2019	David Julian

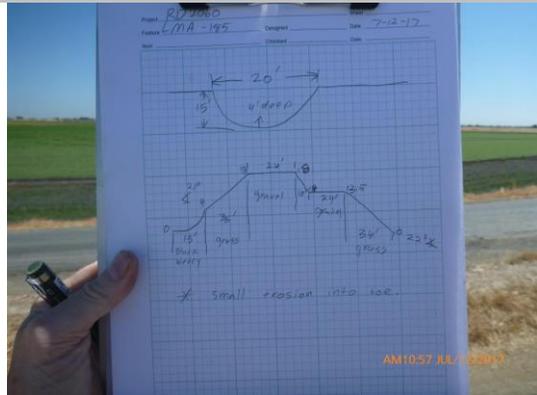
LM Start	0.40	Rating **	M	Issue No.	5 (cont)
LM End	0.40	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.247894 °	38.247911 °
				-121.703492 °	-121.703539 °
DWR ID	LMA-185				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Erosion commences approximately 3/4 of the way down the slope, near the water line towards the waterside toe. Site ID No: 358 Site Designation: LMA-185 Repair Type: Erosion Rating: Area of Concern Field Date: 7/12/2017 Notes: Small erosion into bank.					

Photo 5 of 6 : FA_2019_RD2060_241_5_20190826_00005.jpg



LM Start	0.40	Rating **	M	Issue No.	5 (cont)
LM End	0.40	Issue Type +	Ma	Location *	WS

Photo 6 of 6 : FA_2019_RD2060_241_5_20190826_00006.jpg



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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/15/2019 10/15/2019	David Julian

LM Start	0.41	Rating **	M	Issue No.	8
LM End	0.42	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.248036°	38.248017°	
			-121.703539°	-121.703789°	
DWR ID	LMA-186				

Comment Code

Inspector Comment

Levee Evaluation Comments
 Description: Erosion commences approximately halfway down the water side slope extending in to existing rip rap. Existing rip rap appears to have been pulled off in this section.
 Site ID No: 359
 Site Designation: LMA-186
 Repair Type: Erosion
 Rating: Area of Concern
 Field Date: 7/12/2017
 Notes: Site had riprap but is eroded away. Minor erosion in toe of levee.

LM Start	0.41	Rating **	M	Issue No.	8 (cont)
LM End	0.42	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : FA_2019_RD2060_241_8_20190826_00007.jpg



Photo 2 of 3 : FA_2019_RD2060_241_8_20190826_00008.jpg



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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/15/2019 10/15/2019	David Julian

LM Start	1.04	Rating **	M	Issue No.	15 (cont)
LM End	1.08	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.251058 °	38.250872 °
				-121.714050 °	-121.714792 °
DWR ID	LMA-189				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Erosion commences approximately 3/4 of the way down the water side slope concentrated at the waterline. Site ID No: 362 Site Designation: LMA-189 Repair Type: Erosion Rating: Area of Concern Field Date: 7/12/2017 Notes: Erosion due to lack of revetment. Erosion ends at riprap downstream. Vertical cut at summer wse.					

Photo 3 of 3 : FA_2019_RD2060_241_15_20190826_00019.jpg



LM Start	1.09	Rating **	M	Issue No.	16
LM End	1.10	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.250844 °	38.250833 °
				-121.714944 °	-121.714994 °
DWR ID	LMA-190				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Erosion commences approximately halfway down the water side slope extending to the toe. Site ID No: 363 Site Designation: LMA-190 Repair Type: Erosion Rating: Area of Concern Field Date: 7/12/2017 Notes: Small erosion up to high water line. Cuts into slope with 6' vertical cut.					

Photo 1 of 3 : FA_2019_RD2060_241_16_20190826_00020.jpg



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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/15/2019 10/15/2019	David Julian

LM Start	1.39	Rating **	A/W	Issue No.	20 (cont)
LM End	1.56	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.251886°	38.252619°
				-121.719933°	-121.722842°
DWR ID	LMA-192				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Erosion commences approximately halfway down the water side slope extending to the toe. Site ID No: 365 Site Designation: LMA-192 Repair Type: Erosion Rating: Serious Field Date: 7/12/2017 Notes: Several deep narrow cuts into levee, but mostly minor erosion at highwater line.					

Photo 3 of 3 : FA_2019_RD2060_241_20_20190826_00025.jpg



LM Start	1.43	Rating **	M	Issue No.	6
LM End	1.57	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.251910°	38.252605°
				-121.720620°	-121.722924°
DWR ID	DWR_RD2060_01_f_2018_6				
Comment Code					
Inspector Comment					
2017 Site ID: LDS 1.7 L Status: Eroding New 2017 Field Notes: Soil is boulders and sand. Multiple slumping sections. Site History:					

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 - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/15/2019 10/15/2019	David Julian

LM Start	1.45	Rating **	A/W	Issue No.	11
LM End	1.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.252013°	38.252013°
				-121.720945°	-121.720945°
DWR ID	DWR_RD2060_01_s_2017_11				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Waterside slope slump from 2017 has not moved since discovered. Initial cause was clay materials, cattle and wet weather. Continue to monitor.					

No Photos

LM Start	1.46	Rating **	A/W	Issue No.	13
LM End	1.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.252038°	38.252070°
				-121.721212°	-121.721440°
DWR ID	DWR_RD2060_01_s_2017_13				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Waterside slope slump from 2017 has not moved since discovered. Initial cause was clay materials, cattle and wet weather. Continue to monitor.					

No Photos

LM Start	1.49	Rating **	A/W	Issue No.	14
LM End	1.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.252130°	38.252130°
				-121.721637°	-121.721637°
DWR ID	DWR_RD2060_01_s_2017_14				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Waterside slope slump from 2017 has not moved since discovered. Initial cause was clay materials, cattle and wet weather. Continue to monitor.					

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 - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/15/2019 10/15/2019	David Julian

LM Start	3.60	Rating **	M	Issue No.	27 (cont)
LM End	3.61	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.261469 °	38.261464 °
				-121.748389 °	-121.748442 °
DWR ID	LMA-200				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Erosion commences halfway down the slope and extends to the toe. Erosion is concentrated at the water line. Site ID No: 373 Site Designation: LMA-200 Repair Type: Erosion Rating: Area of Concern Field Date: 7/13/2017 Notes: Small erosion with a narrow deep cut. Heavy veg is protecting the slope.					

Photo 3 of 3 : FA_2019_RD2060_241_27_20190826_00046.jpg



LM Start	3.65	Rating **	M	Issue No.	35
LM End	3.65	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.261314 °	38.261314 °
				-121.749191 °	-121.749191 °
DWR ID	22050				
Comment Code					
Inspector Comment					
DS_ID: 22050 FS_ID: 41908 EP_NO: 10119 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 09/19/2018 Updated record to reflect correct permit, historic levee log showed Permit No. 10119 correct Permit No. is 12784. Permit No. 10119 was issued for overhead lines. (O. Magana - DWR UCIP) 08/15/2013 Need to contact owner and verify status of crossing. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 8.625-inch steel natural gas pipeline through the levee, at an unknown depth. Gas line marker on the landside (LS). Sign board on the waterside (WS). (8.625-inch pipeline installed across the channel and both levees of Lindsey Slough authorized under Permit No. 12784, 1979 - Pacific Gas and Electric Company [PG&E]; 8.625-inch line referenced incorrectly as part of Permit No. 10119, 1975 - PG&E, correct Permit No. is 12784). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/15/2013					

Photo 1 of 2 : UCIP_FA_2019_41908_30541.jpg



WS view: gasoline sign board on 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
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/15/2019 10/15/2019	David Julian

LM Start	3.65	Rating **	M	Issue No.	35 (cont)
LM End	3.65	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.261314 °	38.261314 °
				-121.749191 °	-121.749191 °
DWR ID	22050				
Comment Code					
Inspector Comment					
<p>DS_ID:22050 FS_ID:41908 EP_NO: 10119 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 09/19/2018 Updated record to reflect correct permit, historic levee log showed Permit No. 10119 correct Permit No. is 12784. Permit No. 10119 was issued for overhead lines. (O. Magana - DWR UCIP) 08/15/2013 Need to contact owner and verify status of crossing. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 8.625-inch steel natural gas pipeline through the levee, at an unknown depth. Gas line marker on the landside (LS). Sign board on the waterside (WS). (8.625-inch pipeline installed across the channel and both levees of Lindsey Slough authorized under Permit No. 12784, 1979 - Pacific Gas and Electric Company [PG&E]; 8.625-inch line referenced incorrectly as part of Permit No. 10119, 1975 - PG&E, correct Permit No. is 12784). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/15/2013</p>					

Photo 2 of 2 : UCIP_FA_2019_41908_30540.jpg



LS view: gasline indicator across the road from levee toe.

LM Start	3.67	Rating **	M	Issue No.	28
LM End	3.67	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.261181 °	38.261167 °
				-121.749542 °	-121.749592 °
DWR ID	LMA-201				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments Description: Erosion is concentrated near the water line. Site ID No: 374 Site Designation: LMA-201 Repair Type: Erosion Rating: Area of Concern Field Date: 7/13/2017 Notes: Small narrow and deep cut. May have been caused by a collapsed beaver den.</p>					

Photo 1 of 3 : FA_2019_RD2060_241_28_20190826_00047.jpg



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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/15/2019 10/15/2019	David Julian

LM Start	3.76	Rating **	M	Issue No.	36
LM End	3.76	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		38.261211°	38.261211°	
			-121.751117°	-121.751117°	
DWR ID	22045				
Comment Code					
Inspector Comment					
DS_ID:22045 FS_ID:41878 EP_NO: 12784 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 09/19/2018 Based on permit number 12784 review, 8.625-inch line should cross at RD2060U1 CLM 3.756 however, the markers for this crossing show the line crosses at RD2060U1 CLM 3.648 instead. Need to request line alignment for this crossing and update record. This could be a duplicate record of dsid 22050. (O. Magana - DWR UCIP) 08/15/2013 Need to contact owner to determine status and install signs if appropriate. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 8.625-inch steel natural gas pipeline through the levee, 4 feet below the crown. Gas line marker off the landside (LS) toe. (To construct an 8.625-inch pipeline across the channel and both levees of Lindsey Slough authorized under Permit No. 12784, 1979 - Pacific Gas and Electric Company [PG&E]). FS Date: 8/15/2013					

Photo 1 of 3 : UCIP_FA_2019_41878_30549.jpg



LS view: a gas plant and gasline indicator found on LS.

LM Start	3.76	Rating **	M	Issue No.	36 (cont)
LM End	3.76	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_41878_30548.jpg



LS view: closer view of gasline indicator found on LS.

* 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 - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/15/2019 10/15/2019	David Julian

LM Start	3.76	Rating **	M	Issue No.	36 (cont)
LM End	3.76	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.261211 °	38.261211 °
				-121.751117 °	-121.751117 °
DWR ID	22045				
Comment Code					
Inspector Comment					
<p>DS_ID:22045 FS_ID:41878 EP_NO: 12784 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 09/19/2018 Based on permit number 12784 review, 8.625-inch line should cross at RD2060U1 CLM 3.756 however, the markers for this crossing show the line crosses at RD2060U1 CLM 3.648 instead. Need to request line alignment for this crossing and update record. This could be a duplicate record of dsid 22050. (O. Magana - DWR UCIP) 08/15/2013 Need to contact owner to determine status and install signs if appropriate. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 8.625-inch steel natural gas pipeline through the levee, 4 feet below the crown. Gas line marker off the landside (LS) toe. (To construct an 8.625-inch pipeline across the channel and both levees of Lindsey Slough authorized under Permit No. 12784, 1979 - Pacific Gas and Electric Company [PG&E]). FS Date: 8/15/2013</p>					

Photo 3 of 3 : UCIP_FA_2019_41878_30547.jpg



WS view: no indicators found on WS.

LM Start	4.28	Rating **	A/W	Issue No.	29
LM End	4.28	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.260992 °	38.261017 °
				-121.759806 °	-121.759847 °
DWR ID	LMA-203				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments Description: Erosion commences halfway down the slope and extends to the toe. Erosion is concentrated at the water line. Site ID No: 376 Site Designation: LMA-203 Repair Type: Erosion Rating: Area of Concern Field Date: 7/13/2017 Notes: Could not get to erosion due to dense veg. Possibly a deep narrow cut.</p>					

Photo 1 of 3 : FA_2019_RD2060_241_29_20190826_00050.jpg



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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/15/2019 10/15/2019	David Julian

LM Start	4.40	Rating **	M	Issue No.	30 (cont)
LM End	4.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.260850 °	38.260425 °
				-121.761875 °	-121.762861 °
DWR ID	LMA-204				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Erosion/sloughing commences approximately halfway down the slope. Erosion is concentrated mostly near the water line and has resulting in slippage of the slope. Site ID No: 377 Site Designation: LMA-204 Repair Type: Erosion Rating: Area of Concern Field Date: 7/13/2017 Notes: large cut is 100' of 320' site. Large cut is 12' vertical and the rest is 6'.					

Photo 3 of 3 : FA_2019_RD2060_241_30_20190826_00055.jpg



LM Start	4.46	Rating **	M	Issue No.	37
LM End	4.46	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.260414 °	38.260414 °
				-121.762943 °	-121.762943 °
DWR ID	22051				
Comment Code					
Inspector Comment					
DS_ID: 22051 FS_ID: 41988 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Dense vegetation on both levee slopes. FIELD_STRUCT_DESC: *ABANDONED* 24-inch pipe of an unknown material or purpose through the levee, 17 feet below the crown. Inoperable closed slide gate on the waterside (WS) end. (Hastings Farms. Not on encroachment list). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/15/2013					

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 - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/15/2019 10/15/2019	David Julian

LM Start	4.50	Rating **	A/W	Issue No.	31
LM End	4.53	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.260150°	38.259939°	
			-121.763556°	-121.764064°	
DWR ID	LMA-205				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description: Erosion commences approximately 3/4 of the way down the slope. It has resulted in some sloughing.					
Site ID No: 378					
Site Designation: LMA-205					
Repair Type: Erosion					
Rating: Serious					
Field Date: 7/17/2017					
Notes: Deep, wide, vertical cut into slope almost 1/2 way into sope.					

Photo 1 of 3 : FA_2019_RD2060_241_31_20190826_00056.jpg



LM Start	4.50	Rating **	A/W	Issue No.	31 (cont)
LM End	4.53	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA_2019_RD2060_241_31_20190826_00057.jpg



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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/15/2019 10/15/2019	David Julian

LM Start	5.00	Rating **	M	Issue No.	34 (cont)
LM End	5.01	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.262636°	38.262658°
				-121.770503°	-121.770547°
DWR ID	LMA-208				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Erosion is concentrated mostly near the water line and has resulting in slippage of the slope into the toe. Site ID No: 381 Site Designation: LMA-208 Repair Type: Erosion Rating: Area of Concern Field Date: 7/17/2017 Notes: Extended site from 15' to 75' to include LMA-209. Small erosions will become 1 site next high water due to sloughing between them.					

Photo 2 of 3 : FA_2019_RD2060_241_34_20190826_00066.jpg



LM Start	5.00	Rating **	M	Issue No.	34 (cont)
LM End	5.01	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : FA_2019_RD2060_241_34_20190826_00067.jpg



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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	10/15/2019 10/15/2019	David Julian

LM Start	5.12	Rating **	M	Issue No.	18
LM End	6.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.262929°	38.274732°	
			-121.771902°	-121.794825°	
DWR ID	DWR_RD2060_01_f_2019_18				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD2060_241_18_20191015_00074.jpg



View of annual vegetation on the landside slope (Fall 2019).

* 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

Fall 2019 Levee Inspection Results

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles
Unit No. 02 Ulatis Creek	Right	3.64

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	4/9/2019 - 4/9/2019		10/15/2019 - 10/15/2019	
DWR Inspector	David Julian		David Julian	
Accompanied By	Mark Boyd RD 2060 Hastings Tract		Mark Boyd RD 2060 Hastings Tract	
	Michael Moncrief MBK Engineers		Michael Moncrief MBK Engineers	

Summer & Winter Inspections

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

DWR must be informed on the:

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

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	10/15/2019 10/15/2019	David Julian

LM Start	0.00	Rating **	M	Issue No.	10
LM End	0.00	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.289474 °	38.289474 °
				-121.775914 °	-121.775914 °
DWR ID	22059				
Comment Code					
Inspector Comment					
DS_ID:22059 FS_ID:46769 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: - Abandoned pump structure in stream needs proper abandonment- Not accessible due to wired fence FIELD_STRUCT_DESC: *ABANDONED* Pump structure in stream. Concrete distribution box on the landside (LS) slope. Not accessible due to a wire fence. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/15/2013					

Photo 1 of 2 : UCIP_FA_2019_46769_31088.jpg



WS view: abandoned pump support in stream/channel. Not accessible due to vegetation.

LM Start	0.00	Rating **	M	Issue No.	10 (cont)
LM End	0.00	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_FA_2019_46769_31087.jpg



LS view: abandoned concrete distribution box. Not accessible due to wire fence.

* 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 - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	10/15/2019 10/15/2019	David Julian

LM Start	0.12	Rating **	M	Issue No.	2
LM End	1.78	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.276351 °	38.285819 °	
			-121.795922 °	-121.776942 °	
DWR ID	DWR_RD2060_02_s_2017_2				
Comment Code					
FE : Fence					
Inspector Comment					
This fence has no permit.					

Photo 1 of 1 : FA_2019_RD2060_242_2_20190826_00001.jpg



Barbed wire fence on waterside has no permit.

LM Start	0.14	Rating **	M	Issue No.	5
LM End	1.74	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.276614 °	38.285270 °	
			-121.795990 °	-121.777076 °	
DWR ID	DWR_RD2060_02_s_2019_5				
Comment Code					
FE : Fence					
Inspector Comment					
Fence has no permit					

Photo 1 of 1 : FA_2019_RD2060_242_5_20190826_00002.jpg



View looking upstream at fence at the landside toe (Spring 2019).

LM Start	0.22	Rating **	M	Issue No.	6
LM End	0.22	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		38.277807 °	38.277807 °	
			-121.795928 °	-121.795928 °	
DWR ID	DWR_RD2060_02_f_2019_6				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD2060_242_6_20191015_00011.jpg



View of deep rut on the waterside shoulder of the crown (Fall 2019).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	Issue Type 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 - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	10/15/2019 10/15/2019	David Julian

LM Start	1.74	Rating **	M	Issue No.	11
LM End	1.74	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.285219°	38.285219°
				-121.777085°	-121.777085°
DWR ID	22056				
Comment Code					
Inspector Comment					
DS_ID:22056 FS_ID:18386 EP_NO: 10148 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: U-type concrete headwall on LS. Not accessible due to fence. Vegetation is partially blocking inlet & outlet pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. Not accessible due to a fence. Vegetation is partially blocking the inlet and the outlet of the pipe. (24-inch drainage pipe through the levee and a flap gate retained under Automatic Board Order (ABO) issued as Permit No. 10148, 1974 - Reclamation District No. 2060, care of G. T. Wyatt). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/15/2013					

Photo 1 of 3 : UCIP_FA_2019_18386_30873.jpg



WS view: overview of CMP from levee.

LM Start	1.74	Rating **	M	Issue No.	11 (cont)
LM End	1.74	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_18386_30872.jpg



WS view: CM pipe with flap gate. Not accessible. Vegetation is partially blocking outlet 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	10/15/2019 10/15/2019	David Julian

LM Start	2.15	Rating **	M	Issue No.	12 (cont)
LM End	2.15	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.290440 °	38.290440 °
				-121.774808 °	-121.774808 °
DWR ID	22060				
Comment Code					
Inspector Comment					
DS_ID:22060 FS_ID:41668 EP_NO: 5927 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: verify pipe has been abandoned properly. - abandoned pump and pipe.- electrical box on WS shoulder. FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation discharge pipe through the levee, 4 feet below the crown. Corrugated metal cutoff wall. Pump on a piling structure on the riverbank. Siphon breaker on the landside (LS) slope. Concrete distribution box and irrigation ditch at the LS toe. (To relocate an existing irrigation pumping plant and discharge pipe through the levee authorized under Permit No. 5927, 1967 - Cache Slough Pheasant Hunting Preserve, Inc., care of Downey, Brand, Seymour, and Rohwer, Attorneys at Law). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/15/2013					

Photo 3 of 3 : UCIP_FA_2019_41668_31163.jpg



LS view: obstructed siphon breaker in steel riser on levee slope.

LM Start	2.52	Rating **	A/W	Issue No.	8
LM End	2.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.290866 °	38.290866 °
				-121.768068 °	-121.768068 °
DWR ID	DWR_RD2060_02_f_2019_8				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Cow path is located on the landside slope.					

Photo 1 of 1 : FA_2019_RD2060_242_8_20191015_00012.jpg



View looking downstream at cow path on the landside slope (Fall 2019).

* 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

Fall 2019 Levee Inspection Results

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles
Unit No. 03 Cache Slough	Right	5.03

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	4/9/2019 - 4/9/2019		10/15/2019 - 10/15/2019	
DWR Inspector	David Julian		David Julian	
Accompanied By	Mark Boyd RD 2060 Hastings Tract		Mark Boyd RD 2060 Hastings Tract	
	Michael Moncrief MBK Engineers		Michael Moncrief MBK Engineers	

Summer & Winter Inspections

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

DWR must be informed on the:

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

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	10/15/2019 10/15/2019	David Julian

LM Start	0.07	Rating **	M	Issue No.	16
LM End	0.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.296350 °	38.296302 °
				-121.747642 °	-121.747565 °
DWR ID	DWR_RD2060_03_s_2017_16				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Sloughing is occurring on the LS slope.					

Photo 1 of 2 : FA_2019_RD2060_243_16_20190826_00010.jpg



Looking down from the shoulder at the sloughing in the slope towards the irrigation ditch at toe.

LM Start	0.07	Rating **	M	Issue No.	16 (cont)
LM End	0.07	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2019_RD2060_243_16_20190826_00011.jpg



Standing on the slope looking upstream at the slough.

LM Start	0.10	Rating **	A/W	Issue No.	71
LM End	0.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.296084 °	38.296084 °
				-121.747052 °	-121.747052 °
DWR ID	DWR_RD2060_03_s_2018_71				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Minor slump at toe likely due to cattle should be repaired.					

Photo 1 of 1 : FA_2019_RD2060_243_71_20191016_00088.jpg



View looking upstream at minor slump on the lower half of the landside slope (Fall 2019).

* 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 - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	10/15/2019 10/15/2019	David Julian

LM Start	0.15	Rating **	A/W	Issue No.	19 (cont)
LM End	0.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.295738°	38.295559°
				-121.746293°	-121.745583°
DWR ID	DWR_RD2060_03_f_2019_19				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
There are several signs of sloughing occuring on the slope.					

Photo 2 of 3 : FA_2019_RD2060_243_19_20190826_00012.jpg



Standing at levee mile 0.15 looking downstream from the landside slope.

LM Start	0.15	Rating **	A/W	Issue No.	19 (cont)
LM End	0.19	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : FA_2019_RD2060_243_19_20190826_00013.jpg



Just upstream of the erosion site looking downstream from the landside slope.

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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	10/15/2019 10/15/2019	David Julian

LM Start	0.90	Rating **	M	Issue No.	72
LM End	0.90	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.290684 °	38.290684 °
				-121.735668 °	-121.735668 °
DWR ID	22067				
Comment Code					
Inspector Comment					
DS_ID:22067 FS_ID:18727 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Seem abandoned. Not found- pump on LS. Needs more exploration. FIELD_STRUCT_DESC: 6-inch steel irrigation discharge pipe through the levee, 2.8 feet below the crown. Pump on the landside (LS). Gate valve on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 107, April 1959, (HLM 0.4), 10-inch pipe referenced]. FS Date: 8/15/2013					

Photo 1 of 2 : UCIP_FA_2019_18727_31317.jpg



Waterside view: levee slope.

LM Start	0.90	Rating **	M	Issue No.	72 (cont)
LM End	0.90	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_FA_2019_18727_31316.jpg



Waterside view: levee slope and a steel 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**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	10/15/2019 10/15/2019	David Julian

LM Start	0.90	Rating **	M	Issue No.	73 (cont)
LM End	0.90	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.290684 °	38.290684 °
				-121.735639 °	-121.735639 °
DWR ID	22063				
Comment Code					
Inspector Comment					
DS_ID:22063 FS_ID:18726 EP_NO: 6342 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Leaky siphon breaker may need to be repaired. Dense vegetation on WS.Not found- gate valve on LS. FIELD_STRUCT_DESC: 16-inch coated steel drainage discharge pipe through the levee, 8 feet below the crown. Vertical pump in drainage ditch on the landside (LS). Gate valve on the LS. Siphon breaker on the waterside (WS). (Plans to replace a 10-inch drainage pipe through the levee authorized under Permit No. 6342, 1968 - Hastings Farms. Plans to revise plans by changing pipe size from 10-inch to 16-inch through the levee authorized under Permit No. 6342-A, 1971 - Hastings Farms). FS Date: 8/15/2013					

Photo 3 of 3 : UCIP_FA_2019_18726_31315.jpg



Waterside view: only leaky siphon breaker found.

LM Start	1.21	Rating **	M	Issue No.	20
LM End	1.23	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.290511 °	38.290486 °
				-121.729867 °	-121.729603 °
DWR ID	LMA-217				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description:Erosion commences 1/4 of the way down the slope with slippage towards the water side toe. Site ID No:390 Site Designation:LMA-217 Repair Type: Erosion Rating:Area of Concern Field Date:7/20/2017 Notes: Erosion halfway down WS slope. Monitor for progression.					

Photo 1 of 3 : FA_2019_RD2060_243_20_20190826_00014.jpg



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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	10/15/2019 10/15/2019	David Julian

LM Start	1.62	Rating **	A/W	Issue No.	23 (cont)
LM End	1.63	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.287336°	38.287222°
				-121.724364°	-121.724253°
DWR ID	LMA-220				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Erosion commences halfway down the slope and results in slippage into the waterside toe. Existing rip rap has sloughed into the water side toe. Site ID No: 393 Site Designation: LMA-220 Repair Type: Erosion Rating: Serious Field Date: 7/20/2017 Notes: Moderate sloughing 8ft from WS crown. Erosion at high water mark.					

Photo 3 of 3 : FA_2019_RD2060_243_23_20190826_00025.jpg



LM Start	1.65	Rating **	M	Issue No.	24
LM End	1.73	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.286953°	38.285939°
				-121.723958°	-121.723061°
DWR ID	LMA-221				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Erosion commences halfway down the slope. Existing rip rap has sloughed into the water side toe. Site ID No: 394 Site Designation: LMA-221 Repair Type: Erosion Rating: Area of Concern Field Date: 7/20/2017 Notes: Site includes LMA-218. Erosion halfway down slope. Monitor for progression.					

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 - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	10/15/2019 10/15/2019	David Julian

LM Start	1.84	Rating **	M	Issue No.	25 (cont)
LM End	1.92	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.284825 °	38.284467 °
				-121.721764 °	-121.720339 °
DWR ID	LMA-222				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Erosion commences halfway down the slope and results in slippage into the waterside toe. Site ID No: 395 Site Designation: LMA-222 Repair Type: Erosion Rating: Area of Concern Field Date: 7/20/2017 Notes: Erosion halfway down slope. Monitor for progression.					

Photo 3 of 3 : FA_2019_RD2060_243_25_20190826_00028.jpg



LM Start	2.02	Rating **	A/W	Issue No.	5
LM End	2.60	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.284120 °	38.277633 °
				-121.718577 °	-121.711912 °
DWR ID	DWR_RD2060_03_f_2018_5				
Comment Code					
Inspector Comment					
2017 Site ID: CHS 22.9 R Status: Eroding 2017 Field Notes: Sites 22.5, 22.6, 22.8, and 22.9 were combined into one long erosion site due to due erosion. Site History: 2007 - Geotechnical failure of midside slope and wave wash/scalloping in toe area. Stone revetment upstream and downstream of site. Similar sites are present all along the right bank downstream of this site, most could be repaired with some maintenance. 2008 - Small scour pockets and mid-slope wave wash. 2010 - Minor new erosion. 2011 - Site extended downstream and new erosion. 2013 - Pockets of erosion behind willows and extending into the levee toe. 2015 - Erosion pockets have increased in size. 2016 - Rock has been placed in some of the pockets.					

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 - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	10/15/2019 10/15/2019	David Julian

LM Start	2.02	Rating **	M	Issue No.	26 (cont)
LM End	2.06	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.283914 °	38.283422 °
				-121.718614 °	-121.718206 °
DWR ID	LMA-223				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Erosion commences halfway down the slope and results in slippage into the waterside toe. Existing rip rap has sloughed into the water side toe. Site ID No: 396 Site Designation: LMA-223 Repair Type: Erosion Rating: Area of Concern Field Date: 7/18/2017 Notes: Erosion to high water line.					

Photo 3 of 3 : FA_2019_RD2060_243_26_20190826_00031.jpg



LM Start	2.12	Rating **	A/W	Issue No.	27
LM End	2.15	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.282733 °	38.282403 °
				-121.717683 °	-121.717428 °
DWR ID	LMA-224				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Erosion commences approximately 1/4 of the way down the slope and results in slippage into the waterside toe. Site ID No: 397 Site Designation: LMA-224 Repair Type: Erosion Rating: Serious Field Date: 7/18/2017 Notes: Benched erosion with large cracks on slope above. Light veg in erosion.					

Photo 1 of 3 : FA_2019_RD2060_243_27_20190826_00032.jpg



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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	10/15/2019 10/15/2019	David Julian

LM Start	2.19	Rating **	A/W	Issue No.	28
LM End	2.22	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.281839 °	38.281486 °	
			-121.716964 °	-121.716661 °	
DWR ID	LMA-225				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description: Erosion commences approximately 1/4 of the way down the slope and results in slippage into the waterside toe.					
Site ID No: 398					
Site Designation: LMA-225					
Repair Type: Erosion					
Rating: Serious					
Field Date: 7/18/2017					
Notes: Erosion is near vertical with light veg. Existing rip rap to the left of site.					

Photo 1 of 3 : FA_2019_RD2060_243_28_20190826_00035.jpg



LM Start	2.19	Rating **	A/W	Issue No.	28 (cont)
LM End	2.22	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA_2019_RD2060_243_28_20190826_00036.jpg



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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	10/15/2019 10/15/2019	David Julian

LM Start	2.30	Rating **	M	Issue No.	29 (cont)
LM End	2.33	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.280667°	38.280467°
				-121.715664°	-121.715242°
DWR ID	LMA-226				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description: Erosion commences approximately halfway down the slope and results in slippage into the waterside toe.					
Site ID No: 399					
Site Designation: LMA-226					
Repair Type: Erosion					
Rating: Area of Concern					
Field Date: 7/18/2017					
Notes: Vertical erosion at high water mark.					

Photo 2 of 3 : FA_2019_RD2060_243_29_20190826_00039.jpg



LM Start	2.30	Rating **	M	Issue No.	29 (cont)
LM End	2.33	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : FA_2019_RD2060_243_29_20190826_00040.jpg



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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	10/15/2019 10/15/2019	David Julian

LM Start	2.36	Rating **	M	Issue No.	31
LM End	2.43	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.280208°	38.279336°
				-121.714853°	-121.714172°
DWR ID	LMA-227				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description: Erosion commences approximately halfway down the slope and results in slippage into the waterside toe.					
Site ID No: 400					
Site Designation: LMA-227					
Repair Type: Erosion					
Rating: Area of Concern					
Field Date: 7/18/2017					
Notes: Steep cut but protected with heavy woody veg.					

Photo 1 of 3 : FA_2019_RD2060_243_31_20190826_00041.jpg



LM Start	2.36	Rating **	M	Issue No.	31 (cont)
LM End	2.43	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA_2019_RD2060_243_31_20190826_00042.jpg



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

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	10/15/2019 10/15/2019	David Julian

LM Start	3.24	Rating **	M	Issue No.	37 (cont)
LM End	3.24	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.270231 °	38.270203 °
				-121.705897 °	-121.705856 °
DWR ID	LMA-233				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Erosion commences approximately halfway down the slope and results in sloughing into the waterside toe. Existing rip rap has been pulled off the slope at this site. Site ID No: 406 Site Designation: LMA-233 Repair Type: Erosion Rating: Area of Concern Field Date: 7/18/2017 Notes: Erosion is next to a pumphouse and slope is protected with rip rap.					

Photo 3 of 3 : FA_2019_RD2060_243_37_20190826_00061.jpg



LM Start	3.24	Rating **	M	Issue No.	74
LM End	3.24	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.270151 °	38.270151 °
				-121.705782 °	-121.705782 °
DWR ID	22064				
Comment Code					
Inspector Comment					
DS_ID: 22064 FS_ID: 18723 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Only a CMP riser was found on WS. FIELD_STRUCT_DESC: 36-inch asbestos bonded steel irrigation discharge pipe through the levee, 15 feet below the crown, not found. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found. Pump in pump house on a pile structure in the stream, not found. Service pole and anchor on the landside (LS) slope, not found. FS Date: 8/15/2013					

Photo 1 of 3 : UCIP_FA_2019_18723_31303.jpg



WS view: slide gate in CMP riser (bottom- marked) and may be abandoned pile for pump support (marked- 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 - Fall 2019

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	10/15/2019 10/15/2019	David Julian

LM Start	3.96	Rating **	A/W	Issue No.	41 (cont)
LM End	4.00	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.262114 °	38.261583 °
				-121.697978 °	-121.697647 °
DWR ID	LMA-238				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Erosion commences approximately halfway down the slope and results in sloughing into the waterside toe. Site ID No: 411 Site Designation: LMA-238 Repair Type: Erosion Rating: Serious Field Date: 7/18/2017 Notes: This site includes LMA-235. Wide erosion looks like several small sites merged. Heavy veg indicates slow erosion.					

Photo 2 of 3 : FA_2019_RD2060_243_41_20190826_00069.jpg



LM Start	3.96	Rating **	A/W	Issue No.	41 (cont)
LM End	4.00	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : FA_2019_RD2060_243_41_20190826_00070.jpg



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