

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023**

**Reclamation District No. 0999 Netherlands**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Left	15.41	04/25/2023 04/25/2023	Marvin Marshall

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>53</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_RD0999_01_s_2013_53				
Comment Code					
OM : O&M Manuals					
Inspector Comment					
The LMA has a copy of the O & M manual on file.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>54</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_RD0999_01_s_2019_54				
Comment Code					
ES : Emergency Supplies & Equipment					
Inspector Comment					
The LMA has adequate floodfight supplies and equipment on hand.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>55</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_RD0999_01_s_2013_55				
Comment Code					
FP : Flood Preparedness & Training					
Inspector Comment					
The LMA is prepared for responding to floods and has received training in 2020.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Left	15.41	04/25/2023 04/25/2023	Marvin Marshall

LM Start	0.27	Rating **	M	Issue No.	3
LM End	0.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.501113°	38.501113°
				-121.581975°	-121.581975°
DWR ID	DWR_RD0999_01_s_2022_3				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	1.73	Rating **	U	Issue No.	2	
LM End	1.73	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.480097°	38.480097°	
				-121.580844°	-121.580844°	
DWR ID	22743					
Comment Code						
Inspector Comment						
DS_ID:22743 FS_ID:73776 EP_NO: N/A Repair Type: Urgent EVAL Issue: 1, Pipe Integrity Crossing Status: Found UCIP Comments: 06/16/2020 Record remains Non-Urgent. Crossing appears abandoned. Recommend owner to contact CVFPB to abandon or remove pipe from levee. System Feature. (D.Sanoski - DWR UCIP) 07/26/2018 Same as last inspection. Pipe open on WS, but no visual signs of pipe or levee integrity issues so downgrading crossing to Non-Urgent (D. Sanoski - DWR UCIP).07/07/2016 Condition largely unchanged from previous inspection. Pipe open on the WS, waterward of the siphon breaker. Dense vegetation and steep slope limited inspection of WS outlet into Ship Channel. (T. Hatch/UCIP)06/25/2013 Pipe abandoned and open on WS slope. Pipe should be abandoned properly. (W. Wylie/UCIP) FIELD_STRUCT_DESC: 30-inch steel drainage pipe through the levee, 6.5 feet below the crown. Pump on a platform in the canal off the landside (LS) toe. Flap gate on the waterside (WS). Siphon breaker and an air vent on the WS shoulder. 1-inch galvanized iron filler pipe visible on the WS shoulder along same alignment. [Additional Reference(s): DWR Levee Log, 1992 (HLM 1.73). USACE Sacramento O&M Manual, Unit 113, October 1966, Revised 29 December 2016, (1.73), listed as 30-inch pipe]. FS Date: 6/16/2020 2:16:00 PM						

Photo 1 of 3 : UCIP\_SP\_2023\_73776\_88522.jpg



Top of Levee: view of crown.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Left	15.41	04/25/2023 04/25/2023	Marvin Marshall

LM Start	<b>1.73</b>	Rating **	U	Issue No.	<b>2 (cont)</b>
LM End	<b>1.73</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.480097°	38.480097°
				-121.580844°	-121.580844°
DWR ID	22743				

Photo 2 of 3 : UCIP\_SP\_2023\_73776\_88523.jpg



Water-Side: view of WS slope and broken crossing at toe.

LM Start	<b>1.73</b>	Rating **	U	Issue No.	<b>2 (cont)</b>
LM End	<b>1.73</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2023\_73776\_88524.jpg



Land-Side: view of LS slope and pump platform off in distance.

LM Start	2.83	Rating **	C	Issue No.	25
LM End	2.92	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.464788°	38.463504°
				-121.585021°	-121.585613°
DWR ID	DWR_RD0999_01_s_2022_25				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Repairs and recent rains have closed up dessication cracking.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Left	15.41	04/25/2023 04/25/2023	Marvin Marshall

LM Start	3.00	Rating **	C	Issue No.	32
LM End	3.00	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.462421°	38.462421°
				-121.586114°	-121.586114°
DWR ID	DWR_RD0999_01_s_2022_32				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Repairs and recent rains have closed up dessication cracking.					

No Photos

LM Start	3.60	Rating **	C	Issue No.	35
LM End	3.63	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.454240°	38.453849°
				-121.589924°	-121.590108°
DWR ID	DWR_RD0999_01_s_2022_35				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Repairs and recent rains have closed up dessication cracking.					

No Photos

LM Start	3.79	Rating **	C	Issue No.	36
LM End	3.83	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.451704°	38.451176°
				-121.591078°	-121.591332°
DWR ID	DWR_RD0999_01_s_2022_36				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Repairs and recent rains have closed up dessication cracking.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Yolo Bypass	Left	15.41	04/25/2023 04/25/2023	Marvin Marshall

LM Start	3.93	Rating **	C	Issue No.	28
LM End	3.93	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.449753°	38.449753°
				-121.592023°	-121.592023°
DWR ID	DWR_RD0999_01_s_2021_28				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
No evidence of rodent activity.					

No Photos

LM Start	4.31	Rating **	C	Issue No.	27
LM End	4.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Vehicle Traffic			38.444560°	38.444560°
				-121.594440°	-121.594440°
DWR ID	DWR_RD0999_01_f_2012_27				
Comment Code					
E6 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
This site is corrected with rock placed, no erosion observed.					

No Photos

LM Start	5.19	Rating **	C	Issue No.	40
LM End	5.22	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.432600°	38.432167°
				-121.600019°	-121.600194°
DWR ID	DWR_RD0999_01_s_2022_40				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Repairs and recent rains have closed up dessication cracking.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Left	15.41	04/25/2023 04/25/2023	Marvin Marshall

LM Start	5.87	Rating **	C	Issue No.	41
LM End	6.05	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.423330°	38.420889°
				-121.604272°	-121.605407°
DWR ID	DWR_RD0999_01_s_2022_41				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Repairs and recent rains have closed up dessication cracking.					

No Photos

LM Start	6.75	Rating **	M	Issue No.	6
LM End	6.75	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.411399°	38.411399°
				-121.609804°	-121.609804°
DWR ID	DWR_RD0999_01_s_2023_6				
Comment Code					
DE : Debris					
Inspector Comment					
Remove prunings from LS shoulder.					

No Photos

LM Start	6.88	Rating **	C	Issue No.	48
LM End	7.38	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.409549°	38.402726°
				-121.610642°	-121.613759°
DWR ID	DWR_RD0999_01_s_2022_48				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Repairs and recent rains have closed up dessication cracking.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Left	15.41	04/25/2023 04/25/2023	Marvin Marshall

LM Start	7.80	Rating **	C	Issue No.	60
LM End	7.97	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.397081°	38.394765°
				-121.616392°	-121.617471°
DWR ID	DWR_RD0999_01_s_2022_60				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Repairs and recent rains have closed up dessication cracking.					

No Photos

LM Start	8.80	Rating **	C	Issue No.	30
LM End	8.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.383457°	38.383457°
				-121.622739°	-121.622739°
DWR ID	DWR_RD0999_01_f_2021_30				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Voids have been filled.					

No Photos

LM Start	9.34	Rating **	C	Issue No.	24
LM End	9.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.376127°	38.375889°
				-121.626140°	-121.626258°
DWR ID	DWR_RD0999_01_s_2019_24				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Burrows have been backfilled.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Left	15.41	04/25/2023 04/25/2023	Marvin Marshall

LM Start	9.44	Rating **	C	Issue No.	61
LM End	9.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.374635°	38.374635°
				-121.626827°	-121.626827°
DWR ID	DWR_RD0999_01_s_2022_61				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Burrows have been backfilled.					

No Photos

LM Start	11.63	Rating **	M	Issue No.	7
LM End	11.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Vehicle Traffic			38.344942°	38.344942°
				-121.640647°	-121.640647°
DWR ID	DWR_RD0999_01_s_2023_7				
Comment Code					
E6 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair slope damage from vehicle traffic.					

No Photos

LM Start	13.27	Rating **	U	Issue No.	69
LM End	13.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.321562°	38.321562°
				-121.644943°	-121.644943°
DWR ID	DWR_RD0999_01_s_2022_69				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Large crack midway up landside slope with sloughing.					

Photo 1 of 1 : SP\_2023\_RD0999\_232\_69\_20230306\_00025.jpg



Desiccation cracking and sloughing on the landside slope. Spring 2022

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yolo Bypass	Left	15.41	04/25/2023 04/25/2023	Marvin Marshall

LM Start	13.29	Rating **	U	Issue No.	47
LM End	13.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.321180°	38.321043°
				-121.644962°	-121.644960°
DWR ID	DWR_RD0999_01_f_2020_47				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
A separation of soil up to 12" deep and 40' long exists on the waterside slope.					

Photo 1 of 2 : SP\_2023\_RD0999\_232\_47\_20230306\_00019.jpg



View of soil separation on the waterside slope. Fall 2020

LM Start	<b>13.29</b>	Rating **	U	Issue No.	<b>47 (cont)</b>
LM End	<b>13.30</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2023\_RD0999\_232\_47\_20230306\_00020.jpg



View of soil separation on the waterside slope. Fall 2020

LM Start	13.47	Rating **	U	Issue No.	38
LM End	13.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.318667°	38.318667°
				-121.644948°	-121.644948°
DWR ID	DWR_RD0999_01_f_2021_38				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Repair slope sloughing, approximately 50' long 12" deep.					

Photo 1 of 1 : SP\_2023\_RD0999\_232\_38\_20230306\_00013.jpg



LS slope sloughing. Fall 2021

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Yolo Bypass	Left	15.41	04/25/2023 04/25/2023	Marvin Marshall

LM Start	13.88	Rating **	C	Issue No.	70
LM End	14.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.312696°	38.305155°
				-121.644935°	-121.644931°
DWR ID	DWR_RD0999_01_s_2022_70				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Repairs and recent rains have closed up dessication cracking.					

No Photos

LM Start	15.18	Rating **	C	Issue No.	71
LM End	15.18	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Access Gates			38.293853°	38.293853°
				-121.644978°	-121.644978°
DWR ID	DWR_RD0999_01_s_2022_71				
Comment Code					
AG : Access Gates					
Inspector Comment					
Pole and concrete have been moved.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Yolo Bypass	Left	15.41	04/25/2023 04/25/2023	Marvin Marshall

LM Start	15.24	Rating **	A/W	Issue No.	5	
LM End	15.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.292973°	38.292973°	
				-121.644977°	-121.644977°	
DWR ID	22756					
Comment Code						
Inspector Comment						
DS_ID:22756						
FS_ID:73775						
EP_NO: N/A						
Repair Type: No Action Needed						
EVAL Issue:						
Crossing Status: Found						
UCIP Comments: 06/16/2020 Record remains No Action Needed. No issues observed during inspection. System Feature. (D.Sanoski - DWR UCIP)						
FIELD_STRUCT_DESC: 30-inch steel drainage pipe through the levee, 7 feet below the crown. Flap gate on the waterside (WS) end. Pump in pump house on the landside (LS) toe. Siphon breaker in a corrugated metal pipe (CMP) riser on the WS shoulder. [Additional Reference(s): DWR Levee Log, 1992 (HLM 15.25). USACE Sacramento O&M Manual, Unit 113, October 1966, Revised 29 December 2016, (15.25), listed as 36-inch pipe].						
FS Date: 6/16/2020 2:26:00 PM						

LM Start	<b>15.24</b>	Rating **	A/W	Issue No.	<b>5 (cont)</b>
LM End	<b>15.24</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2023\_73775\_88563.jpg



Top of Levee: view of crown with riser to this pipe on WS shoulder.

Photo 2 of 3 : UCIP\_SP\_2023\_73775\_88565.jpg



Land-Side: view of LS slope and pumphouse at toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Yolo Bypass	Left	15.41	04/25/2023 04/25/2023	Marvin Marshall

LM Start	<b>15.24</b>	Rating **	A/W	Issue No.	<b>5 (cont)</b>
LM End	<b>15.24</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.292973°	38.292973°
				-121.644977°	-121.644977°
DWR ID	22756				

Photo 3 of 3 : UCIP\_SP\_2023\_73775\_88564.jpg



Water-Side: view of WS slope and pipe riser.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Miner Slough	Right	2.31	04/25/2023 04/25/2023	Marvin Marshall

LM Start	1.73	Rating **	M	Issue No.	8
LM End	1.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.289895°	38.289595°
				-121.614688°	-121.614337°
DWR ID	DWR_RD0999_02_s_2012_8				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	1.78	Rating **	M	Issue No.	30
LM End	1.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.289340°	38.289079°
				-121.614030°	-121.613765°
DWR ID	DWR_RD0999_02_f_2017_30				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry bushes block visibility of the levee toe.					

No Photos

LM Start	1.93	Rating **	M	Issue No.	16
LM End	1.93	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.288713°	38.288713°
				-121.611620°	-121.611620°
DWR ID	DWR_RD0999_02_s_2012_16				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Miner Slough	Right	2.31	04/25/2023 04/25/2023	Marvin Marshall

LM Start	2.16	Rating **	M	Issue No.	15
LM End	2.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.288116°	38.286617°
				-121.607827°	-121.606425°
DWR ID	DWR_RD0999_02_f _ 2021_15				
Comment Code					
T1 : Trim and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Remove small saplings growing on landside slope and toe.					

Photo 1 of 1 : SP\_2023\_RD0999\_233\_15\_20230306\_00004.jpg



Saplings and small trees are on the LS slope and toe. Fall 2022

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Right	3.74	04/25/2023 04/25/2023	Marvin Marshall

LM Start	0.18	Rating **	M	Issue No.	11
LM End	0.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.288893°	38.288893°
				-121.604663°	-121.604663°
DWR ID	DWR_RD0999_03_f_2021_11				
Comment Code					
T1 : Trim and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Remove/trim tree near guy wire for visibility.					

Photo 1 of 1 : SP\_2023\_RD0999\_234\_11\_20230306\_00008.jpg



Tree near pole/guy wire on the LS. Fall 2021

LM Start	0.24	Rating **	U	Issue No.	5
LM End	0.65	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2018 USACE Erosion Survey			38.289634°	38.295505°
				-121.604343°	-121.605648°
DWR ID	DWR_RD0999_03_s_2022_5				
Comment Code					
Inspector Comment					
2018 Site ID: STR 24.7 R					
Status: Critical					
2022 Field Notes: No observed changes.					
Site History: 1997 - Intermittent over-steepened sections. Large riparian vegetation along the length of the entire reach. Attempts to repair with rock on bank have failed. 1999 - New rock repair at the downstream end. 2002 - Some minor spot repairs. 2009 - Minimal new erosion. 2010 - Appears that fresh rock placed on downstream portion of site. Toe scour and overhanging trees with some overturned. 2012 - Minor new erosion at the toe. 2013 - Site upgraded to CRITICAL. Severe slumping into levee at downstream end of site. Fresh erosion into bank toe. 2015 - New slumping, tall vertical sections. 2016 - Upper slumped section continues to worsen. 2017 - Locals have placed rock in worst sections. Fresh erosion at toe. New tall vertical sections observed. 2018 -Length reduced on downstream side to account for repaired section.					

Photo 1 of 2 : SP\_2023\_RD0999\_234\_5\_20230306\_00001.jpg



USACE 2018 Erosion Photo #1

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Right	3.74	04/25/2023 04/25/2023	Marvin Marshall

LM Start	<b>0.24</b>	Rating **	U	Issue No.	<b>5 (cont)</b>
LM End	<b>0.65</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2018 USACE Erosion Survey			38.289634°	38.295505°
				-121.604343°	-121.605648°
DWR ID	DWR_RD0999_03_s_2022_5				

Photo 2 of 2 : SP\_2023\_RD0999\_234\_5\_20230306\_00002.jpg



USACE 2018 Erosion Photo #2

LM Start	0.66	Rating **	U	Issue No.	8
LM End	0.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.295618°	38.295618°
				-121.605923°	-121.605923°
DWR ID	DWR_RD0999_03_s_2012_8				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	0.70	Rating **	M	Issue No.	36
LM End	0.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.296175°	38.296175°
				-121.605893°	-121.605893°
DWR ID	DWR_RD0999_03_s_2020_36				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

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

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023**

**Reclamation District No. 0999 Netherlands**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Right	3.74	04/25/2023 04/25/2023	Marvin Marshall

LM Start	0.97	Rating **	M	Issue No.	6
LM End	1.10	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2018 USACE Erosion Survey			38.299402°	38.300542°
				-121.603056°	-121.601118°
DWR ID	DWR_RD0999_03_s_2022_6				
Comment Code					
Inspector Comment					
2018 Site ID: STR 25.2 R					
Status: Eroding					
2022 Field Notes: No observed changes.					
Site History: 2008 - Over steepened levee section. 2009 - Significant new erosion. 2010 - Minor new erosion. 2017 - Minor new erosion at toe. 2018 - New large slump on upper levee slope.					

LM Start	<b>0.97</b>	Rating **	M	Issue No.	<b>6 (cont)</b>
LM End	<b>1.10</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP\_2023\_RD0999\_234\_6\_20230306\_00003.jpg



USACE 2018 Erosion Photo #1

Photo 2 of 2 : SP\_2023\_RD0999\_234\_6\_20230306\_00004.jpg



USACE 2018 Erosion Photo #2

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

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023**

**Reclamation District No. 0999 Netherlands**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Right	3.74	04/25/2023 04/25/2023	Marvin Marshall

LM Start	1.43	Rating **	A/W	Issue No.	10
LM End	1.57	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2018 USACE Erosion Survey			38.305229°	38.306667°
				-121.599933°	-121.598266°
DWR ID	DWR_RD0999_03_s_2022_10				
Comment Code					
Inspector Comment					
2018 Site ID: STR 25.7 R					
Status: Eroding					
2022 Field Notes: No observed changes.					
Site History: 2011 - Toe scour along length of site and erosion pockets.					
2012 - Site extended slightly upstream due to new erosion pocket.					
2013 - Tall vertical sections at upstream end of site. 2017 - Large erosion scarp near downstream end. 2018 - Site extended upstream.					

Photo 1 of 2 : SP\_2023\_RD0999\_234\_10\_20230306\_00006.jpg



USACE 2018 Erosion Photo #1

LM Start	<b>1.43</b>	Rating **	A/W	Issue No.	<b>10 (cont)</b>
LM End	<b>1.57</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2023\_RD0999\_234\_10\_20230306\_00007.jpg



USACE 2018 Erosion Photo #2

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

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023**

**Reclamation District No. 0999 Netherlands**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Right	3.74	04/25/2023 04/25/2023	Marvin Marshall

LM Start	1.93	Rating **	M	Issue No.	12
LM End	1.97	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2018 USACE Erosion Survey			38.311013°	38.311342°
				-121.597751°	-121.596976°
DWR ID	DWR_RD0999_03_s_2022_12				
Comment Code					
Inspector Comment					
2018 Site ID: STR 26.1 R					
Status: Eroding					
2022 Field Notes: No observed change.					
Site History: 2015 - Tall vertical sections into the levee slope and erosion along the toe. 2016 - New tree pop-out observed. 2018 - No observed change.					

Photo 1 of 2 : SP\_2023\_RD0999\_234\_12\_20230306\_00009.jpg



USACE 2018 Erosion Photo #1

LM Start	<b>1.93</b>	Rating **	M	Issue No.	<b>12 (cont)</b>
LM End	<b>1.97</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2023\_RD0999\_234\_12\_20230306\_00010.jpg



USACE 2018 Erosion Photo #2

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

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023**

**Reclamation District No. 0999 Netherlands**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Right	3.74	04/25/2023 04/25/2023	Marvin Marshall

LM Start	2.97	Rating **	A/W	Issue No.	14
LM End	3.22	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2018 USACE Erosion Survey			38.323419°	38.325592°
				-121.589645°	-121.585925°
DWR ID	DWR_RD0999_03_s_2022_14				
Comment Code					
Inspector Comment					
2018 Site ID: STR 27.3 R					
Status: Eroding					
2022 Field Notes: No observed change.					
Site History: 2011 - Multiple erosion pockets. Some likely from tree popouts. 2013 - Tall vertical sections. 2015 - New tree pop-out and significant new erosion. 2016 - New erosion at toe. 2017 - Site extended downstream, section of lower bank has slumped off. Fresh toe erosion and fresh tree popout. 2018 - No observed change.					

Photo 1 of 1 : SP\_2023\_RD0999\_234\_14\_20230306\_00011.jpg



USACE 2018 Erosion Photo #1

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sacramento River	Right	1.22	04/03/2023 04/03/2023	Marvin Marshall

LM Start	0.00	Rating **	A/W	Issue No.	2	
LM End	0.00	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.414022°	38.414022°	
				-121.522986°	-121.522986°	
DWR ID	22788					
Comment Code						
Inspector Comment						
DS_ID:22788 FS_ID:73928 EP_NO: N/A Repair Type: No Action Needed EVAL Issue: Crossing Status: Found UCIP Comments: 07/01/2020 Record remains No Action Needed. No issues observed during inspection. System Feature. (D.Sanoski - DWR UCIP) 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: [Elk Slough Inlet Structure] 60-inch by 60-inch reinforced concrete drainage culvert through the levee, 30 feet below the crown. Slide gate in a 6-foot by 8-foot concrete vault on the waterside (WS) shoulder. [Additional Reference(s): DWR Levee Log, 1992 (HLM 0.00). USACE Sacramento O&M Manual, Unit 113, October 1966, Revised 29 December 2016, (0.00), listed as 5-foot by 5-foot culvert.] FS Date: 7/1/2020 10:09:00 AM						

LM Start	<b>0.00</b>	Rating **	A/W	Issue No.	<b>2 (cont)</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2023\_73928\_88712.jpg



Top of Levee: view of crown.

Photo 2 of 3 : UCIP\_SP\_2023\_73928\_88713.jpg



Water-Side: view of WS slope and concrete vault.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sacramento River	Right	1.22	04/03/2023 04/03/2023	Marvin Marshall

LM Start	<b>0.00</b>	Rating **	A/W	Issue No.	<b>2 (cont)</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.414022°	38.414022°
				-121.522986°	-121.522986°
DWR ID	22788				

Photo 3 of 3 : UCIP\_SP\_2023\_73928\_88714.jpg



Land-Side: view of LS slope and channel at toe.

LM Start	<b>0.02</b>	Rating **	C	Issue No.	<b>23</b>
LM End	<b>0.28</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2018 USACE Erosion Survey			38.414387°	38.417692°
				-121.522871°	-121.525083°
DWR ID	DWR_RD0999_04_s_2022_23				

No Photos

Comment Code					
Inspector Comment					
2018 Site ID: SAC 41.9 R Status: Critical Spring 2023: Site has been repaired. 2022 Field Notes: No observed changes. Site History: 1997 - Structural problem rather than erosional, failed cobble at downstream end. 2005 - New brush boxes at waterline for several hundred feet downstream, No toe or bank protection present. 2006 - Some minor new erosion. Brush boxes not working well; most of the brush has floated out. 2007 - Brush boxes have recently been repaired. 2016 - Minor new slumping. 2017 - Fresh erosion on entire bank. Upgraded to CRITICAL. 2018 - Site continues to look worse.					

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

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023**

**Reclamation District No. 0999 Netherlands**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sacramento River	Right	1.22	04/03/2023 04/03/2023	Marvin Marshall

LM Start	0.55	Rating **	A/W	Issue No.	39
LM End	0.55	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Foot Traffic			38.421051°	38.421051°
				-121.527692°	-121.527692°
DWR ID	DWR_RD0999_04_s_2022_39				
Comment Code					
E3 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Monitor footpath for erosion.					

Photo 1 of 1 : SP\_2023\_RD0999\_235\_39\_20230306\_00012.jpg



Footpath on the waterside slope. Spring 2022

LM Start	0.58	Rating **	U	Issue No.	35
LM End	0.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.421367°	38.421367°
				-121.528051°	-121.528051°
DWR ID	DWR_RD0999_04_s_2022_35				
Comment Code					
T3 : Fallen tree with root ball.					
Inspector Comment					
Remove fallen tree from landside slope.					

Photo 1 of 1 : SP\_2023\_RD0999\_235\_35\_20230404\_00039.jpg



Fallen tree on the LS slope. Spring 2023

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.48	04/25/2023 04/25/2023	Marvin Marshall

LM Start	0.00	Rating **	M	Issue No.	49
LM End	0.01	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2018 USACE Erosion Survey			38.332643°	38.414157°
				-121.584449°	-121.523156°
DWR ID	DWR_RD0999_05_s_2022_49				
Comment Code					
Inspector Comment					
2018 Site ID: ELK 0.2 R					
Status: Eroding					
2018 Field Notes: Deteriorating levee reach.					
Site History: 1997 - Most of lower Elk Slough contains high near vertical banks, with erosion into the levee slope. Channel almost appears incised. 2002 - Sites where the levee slope is near vertical and severely eroding. It could fail catastrophically. 2004 - Looks bad in terms of vertical slopes and fallen trees. 2005 - Banks are still over steepened in most places and potentially susceptible to geotechnical failures. 2006 - Both banks are still over steepened in most places and potentially susceptible to geotechnical failures. 2010 - The entire reach is in poor condition, with severely eroding near vertical slopes, needs a regional repair. 2011 - Channel banks are still oversteepened with erosion continuing. 2012 - New cracks and animal holes observed. 2013 - Fresh erosion around pump structure. 2017 - Fresh erosion observed.					

No Photos

LM Start	0.13	Rating **	A/W	Issue No.	165
LM End	0.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.334473°	38.334473°
				-121.584226°	-121.584226°
DWR ID	DWR_RD0999_05_s_2020_165				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Minor cracks appear within the pavement next to a ramp.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_165\_20230306\_00068.jpg



View of minor cracks near a ramp. Fall 2022

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.48	04/25/2023 04/25/2023	Marvin Marshall

LM Start	0.32	Rating **	N	Issue No.	75
LM End	0.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.337057°	38.337057°
				-121.582721°	-121.582721°
DWR ID	DWR_RD0999_05_s_2021_75				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Remove stumps.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_75\_20230306\_00029.jpg



Stumps on the landside slope. Spring 2022

LM Start	1.10	Rating **	U	Issue No.	55
LM End	1.14	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.347889°	38.348159°
				-121.579191°	-121.578665°
DWR ID	DWR_RD0999_05_f_2021_55				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Crown sloughing at roadway edge. Approximately 500' >6"					

Photo 1 of 2 : SP\_2023\_RD0999\_236\_55\_20230306\_00017.jpg



Depth of sloughing on WS crown. Fall 2021

LM Start	<b>1.10</b>	Rating **	U	Issue No.	<b>55 (cont)</b>
LM End	<b>1.14</b>	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : SP\_2023\_RD0999\_236\_55\_20230306\_00018.jpg



Length of sloughing on WS crown. Fall 2021

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.48	04/25/2023 04/25/2023	Marvin Marshall

LM Start	1.17	Rating **	M	Issue No.	273
LM End	1.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.348307°	38.348307°
				-121.578045°	-121.578045°
DWR ID	DWR_RD0999_05_f_2021_273				
Comment Code					
T3 : Fallen tree with root ball.					
Inspector Comment					
Remove the large tree debris on the waterside slope,					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_273\_20230306\_00099.jpg



Fallen tree in channel. Fall 2021

LM Start	1.43	Rating **	A/W	Issue No.	61
LM End	1.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Foot Traffic			38.348283°	38.348283°
				-121.573347°	-121.573347°
DWR ID	DWR_RD0999_05_s_2020_61				
Comment Code					
E3 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Monitor three footpaths for further erosion of the waterside slope.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_61\_20230306\_00023.jpg



Footpaths on the waterside slope. Spring 2022

LM Start	1.59	Rating **	U	Issue No.	8
LM End	1.59	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.350387°	38.350387°
				-121.573785°	-121.573785°
DWR ID	DWR_RD0999_05_s_2023_8				
Comment Code					
T3 : Fallen tree with root ball.					
Inspector Comment					
Remove tree from slope and fill void from rootball.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_8\_20230426\_00116.jpg



Tree with rootball on the WS slope. Spring 2023

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.48	04/25/2023 04/25/2023	Marvin Marshall

LM Start	1.98	Rating **	U	Issue No.	9
LM End	1.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.355434°	38.355434°
				-121.571767°	-121.571767°
DWR ID	DWR_RD0999_05_s_2023_9				
Comment Code					
T3 : Fallen tree with root ball.					
Inspector Comment					
Remove tree from slope and repair void rom rootball.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_9\_20230426\_00117.jpg



Tree with rootball on the WS slope. Spring 2023

LM Start	2.01	Rating **	N	Issue No.	79
LM End	2.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.355585°	38.355585°
				-121.571135°	-121.571135°
DWR ID	DWR_RD0999_05_s_2021_79				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Three tree stumps are located on the LS leve slope.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_79\_20230306\_00032.jpg



View of the tree stumps on the LS levee slope. Spring 2021.

LM Start	2.04	Rating **	N	Issue No.	90
LM End	2.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.355616°	38.355616°
				-121.570675°	-121.570675°
DWR ID	DWR_RD0999_05_s_2021_90				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
A tree stump on the LS levee slope.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_90\_20230306\_00037.jpg



Tree stump and logs on the landside slope. Spring 2022

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.48	04/25/2023 04/25/2023	Marvin Marshall

LM Start	2.51	Rating **	N	Issue No.	218
LM End	2.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.356378°	38.356378°
				-121.563185°	-121.563185°
DWR ID	DWR_RD0999_05_f_2020_218				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Tree has split and stump will decay.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_218\_20230306\_00087.jpg



Fallen tree on the waterside slope. Spring 2022

LM Start	2.56	Rating **	M	Issue No.	264
LM End	2.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.356910°	38.356910°
				-121.562635°	-121.562635°
DWR ID	DWR_RD0999_05_s_2020_264				
Comment Code					
T3 : Fallen tree with root ball.					
Inspector Comment					
Repair erosion due to a fallen tree with exposed rootball.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_264\_20230306\_00098.jpg



Void from rootball on the waterside slope. Spring 2022

LM Start	2.98	Rating **	N	Issue No.	56
LM End	2.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.362749°	38.362749°
				-121.563338°	-121.563338°
DWR ID	DWR_RD0999_05_f_2021_56				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Several stumps and fallen trees in the vicinity.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_56\_20230306\_00019.jpg



Cut logs and stumps on the LS toe. Fall 2022

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.48	04/25/2023 04/25/2023	Marvin Marshall

LM Start	3.05	Rating **	M	Issue No.	51
LM End	3.09	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.363789°	38.364151°
				-121.562826°	-121.562424°
DWR ID	DWR_RD0999_05_f_2022_51				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Repair crown road depression.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_51\_20230306\_00014.jpg



Crown depression. Fall 2022

LM Start	3.11	Rating **	N	Issue No.	95	
LM End	3.11	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Trim / Thin Trees			38.364356°	38.364356°	
				-121.562021°	-121.562021°	
DWR ID	DWR_RD0999_05_s_2021_95					
Comment Code						
T5 : Tree stumps.						
Inspector Comment						
A large tree stump is located on lower LS levee slope.						

Photo 1 of 1 : SP\_2023\_RD0999\_236\_95\_20230306\_00040.jpg



Tree stump at the landside toe. Spring 2022

LM Start	3.20	Rating **	C	Issue No.	260
LM End	3.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.364702°	38.364702°
				-121.560565°	-121.560565°
DWR ID	DWR_RD0999_05_s_2020_260				
Comment Code					
T3 : Fallen tree with root ball.					
Inspector Comment					
High water has relocated tree. No erosion observed.					

No Photos

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.48	04/25/2023 04/25/2023	Marvin Marshall

LM Start	3.33	Rating **	M	Issue No.	10
LM End	3.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.364106°	38.364106°
				-121.558122°	-121.558122°
DWR ID	DWR_RD0999_05_s_2023_10				
Comment Code					
T2 : Tree or limb.					
Inspector Comment					
Remove fallen tree from LS slope.					

No Photos

LM Start	3.55	Rating **	M	Issue No.	83
LM End	3.55	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.365742°	38.365742°
				-121.556778°	-121.556778°
DWR ID	DWR_RD0999_05_f_2018_83				
Comment Code					
T3 : Fallen tree with root ball.					
Inspector Comment					
Repair slope damage caused by a large fallen tree.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_83\_20230306\_00035.jpg



View of a fallen tree with exposed rootball. Summer 2020

LM Start	3.63	Rating **	M	Issue No.	1
LM End	3.63	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.366880°	38.366880°
				-121.556430°	-121.556430°
DWR ID	DWR_RD0999_05_s_2020_1				
Comment Code					
T3 : Fallen tree with root ball.					
Inspector Comment					
A large scarp exists around a fallen tree.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_1\_20230306\_00001.jpg



View of large, fallen tree on the waterside slope. Summer 2020

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.48	04/25/2023 04/25/2023	Marvin Marshall

LM Start	3.80	Rating **	A/W	Issue No.	85
LM End	3.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.368175°	38.368175°
				-121.554392°	-121.554392°
DWR ID	DWR_RD0999_05_f_2018_85				
Comment Code					
T3 : Fallen tree with root ball.					
Inspector Comment					
Repair the levee slope damaged by a fallen tree.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_85\_20230306\_00036.jpg



View of fallen tree and slope damage. Summer 2020

LM Start	4.08	Rating **	A/W	Issue No.	91
LM End	4.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.370853°	38.370853°
				-121.553605°	-121.553605°
DWR ID	DWR_RD0999_05_f_2018_91				
Comment Code					
T3 : Fallen tree with root ball.					
Inspector Comment					
Repair erosion caused by a fallen tree with exposed rootball.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_91\_20230306\_00038.jpg



View of fallen tree with exposed rootball. Summer 2020

LM Start	4.13	Rating **	A/W	Issue No.	82
LM End	4.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.371470°	38.371470°
				-121.553528°	-121.553528°
DWR ID	DWR_RD0999_05_f_2019_82				
Comment Code					
T3 : Fallen tree with root ball.					
Inspector Comment					
Monitor erosion at the water's edge due to a fallen tree with exposed rootball.					

Photo 1 of 2 : SP\_2023\_RD0999\_236\_82\_20230306\_00033.jpg



View of large, fallen tree with exposed rootball. Summer 2020

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.48	04/25/2023 04/25/2023	Marvin Marshall

LM Start	<b>4.13</b>	Rating **	A/W	Issue No.	<b>82 (cont)</b>
LM End	<b>4.13</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.371470°	38.371470°	
			-121.553528°	-121.553528°	
DWR ID	DWR_RD0999_05_f_2019_82				

Photo 2 of 2 : SP\_2023\_RD0999\_236\_82\_20230306\_00034.jpg



View of scarp around fallen tree. Summer 2020

LM Start	4.25	Rating **	C	Issue No.	12
LM End	4.25	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.372872°	38.372872°
				-121.552185°	-121.552185°
DWR ID	DWR_RD0999_05_s_2017_12				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Sloughing has been repaired or is no longer observed.					

No Photos

LM Start	4.57	Rating **	A/W	Issue No.	102
LM End	4.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.375127°	38.375127°
				-121.547703°	-121.547703°
DWR ID	DWR_RD0999_05_f_2019_102				
Comment Code					
T3 : Fallen tree with root ball.					
Inspector Comment					
Monitor split tree which may have eroded the waterside slope.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_102\_20230306\_00045.jpg



View of fallen tree split at the base. Summer 2020

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.48	04/25/2023 04/25/2023	Marvin Marshall

LM Start	5.06	Rating **	M	Issue No.	106
LM End	5.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.379604°	38.379604°
				-121.541102°	-121.541102°
DWR ID	DWR_RD0999_05_s_2019_106				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the debris and prunings on the LS levee slope.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_106\_20230306\_00048.jpg



View of the debris and pruning pile on the LS levee slope. Spring 2021.

LM Start	5.14	Rating **	N	Issue No.	117
LM End	5.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.380599°	38.380599°
				-121.541227°	-121.541227°
DWR ID	DWR_RD0999_05_s_2021_117				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
A tree stump is located on the WS levee slope.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_117\_20230306\_00050.jpg



View of the tree stump on the WS levee slope. Spring 2021.

LM Start	5.35	Rating **	A/W	Issue No.	97
LM End	5.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.381297°	38.381297°
				-121.545037°	-121.545037°
DWR ID	DWR_RD0999_05_f_2018_97				
Comment Code					
T3 : Fallen tree with root ball.					
Inspector Comment					
Repair the levee toe damaged by fallen trees.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_97\_20230306\_00042.jpg



View of fallen trees and scarp. Summer 2020

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.48	04/25/2023 04/25/2023	Marvin Marshall

LM Start	5.61	Rating **	N	Issue No.	62
LM End	5.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.384231°	38.384231°
				-121.546074°	-121.546074°
DWR ID	DWR_RD0999_05_f_2021_62				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Tree has been removed, stumps remain					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_62\_20230426\_00120.jpg



Stumps on the LS slope. Spring 2023

LM Start	5.64	Rating **	A/W	Issue No.	229
LM End	5.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.384442°	38.384442°
				-121.545580°	-121.545580°
DWR ID	DWR_RD0999_05_s_2020_229				
Comment Code					
T3 : Fallen tree with root ball.					
Inspector Comment					
Erosion is caused by a fallen tree with exposed rootball.					

Photo 1 of 2 : SP\_2023\_RD0999\_236\_229\_20230306\_00093.jpg



View of two fallen trees. Summer 2020

LM Start	<b>5.64</b>	Rating **	A/W	Issue No.	<b>229 (cont)</b>
LM End	<b>5.64</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2023\_RD0999\_236\_229\_20230306\_00094.jpg



View of large scarp near two fallen trees. Summer 2020

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.48	04/25/2023 04/25/2023	Marvin Marshall

LM Start	5.67	Rating **	N	Issue No.	129
LM End	5.67	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.384465°	38.384465°
				-121.545091°	-121.545091°
DWR ID	DWR_RD0999_05_s_2021_129				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Four tree stumps are located on the LS levee slope and toe.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_129\_20230306\_00054.jpg



View of the tree stumps on the LS levee slope and toe. Spring 2021.

LM Start	5.72	Rating **	A/W	Issue No.	99
LM End	5.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.384578°	38.384578°
				-121.544173°	-121.544173°
DWR ID	DWR_RD0999_05_f_2018_99				
Comment Code					
T3 : Fallen tree with root ball.					
Inspector Comment					
Repair damage to the levee toe from a fallen tree.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_99\_20230306\_00043.jpg



View of slope damage near fallen tree. Summer 2020

LM Start	5.79	Rating **	M	Issue No.	227
LM End	5.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.384725°	38.384725°
				-121.542887°	-121.542887°
DWR ID	DWR_RD0999_05_s_2020_227				
Comment Code					
T2 : Tree or limb.					
Inspector Comment					
Remove a fallen tree from the slope.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_227\_20230306\_00092.jpg



View of a fallen tree on the waterside slope. Spring 2020

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.48	04/25/2023 04/25/2023	Marvin Marshall

LM Start	6.52	Rating **	M	Issue No.	14
LM End	6.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.392214°	38.392214°
				-121.538940°	-121.538940°
DWR ID	DWR_RD0999_05_s_2023_14				
Comment Code					
T2 : Tree or limb.					
Inspector Comment					
Remove logs and prunings from LS slope.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_14\_20230426\_00124.jpg



Logs and prunings on the LS slope. Spring 2023

LM Start	6.77	Rating **	M	Issue No.	208
LM End	6.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.395742°	38.395742°
				-121.539080°	-121.539080°
DWR ID	DWR_RD0999_05_f_2020_208				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings from the waterside shoulder.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_208\_20230426\_00130.jpg



Prunings on the WS shoulder. Spring 2023

LM Start	7.54	Rating **	N	Issue No.	191
LM End	7.54	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.403843°	38.403843°
				-121.541233°	-121.541233°
DWR ID	DWR_RD0999_05_s_2020_191				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.48	04/25/2023 04/25/2023	Marvin Marshall

LM Start	7.69	Rating **	M	Issue No.	214
LM End	7.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.405117°	38.405117°
				-121.543407°	-121.543407°
DWR ID	DWR_RD0999_05_f_2021_214				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Repair large hole on the landside slope.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_214\_20230306\_00084.jpg



View of a large hole on the landside slope. Fall 2020

LM Start	8.18	Rating **	M	Issue No.	186
LM End	8.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.409818°	38.409818°
				-121.538585°	-121.538585°
DWR ID	DWR_RD0999_05_s_2020_186				
Comment Code					
T2 : Tree or limb.					
Inspector Comment					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_186\_20230306\_00077.jpg



View of a tree log on the waterside slope. Spring 2020

LM Start	8.28	Rating **	M	Issue No.	177
LM End	8.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.409355°	38.409355°
				-121.536780°	-121.536780°
DWR ID	DWR_RD0999_05_f_2020_177				
Comment Code					
T2 : Tree or limb.					
Inspector Comment					
Remove tree log debris from the waterside slope.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_177\_20230306\_00074.jpg



View of tree logs and limbs on the waterside slope. Fall 2020

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.48	04/25/2023 04/25/2023	Marvin Marshall

LM Start	8.31	Rating **	M	Issue No.	181
LM End	8.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.409118°	38.409118°
				-121.536298°	-121.536298°
DWR ID	DWR_RD0999_05_s_2020_181				
Comment Code					
T2 : Tree or limb.					
Inspector Comment					
Remove a fallen tree from the waterside slope.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_181\_20230306\_00076.jpg



View of fallen tree on the waterside slope. Spring 2020

LM Start	8.54	Rating **	U	Issue No.	175
LM End	8.54	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Access Gates			38.409907°	38.409907°
				-121.532985°	-121.532985°
DWR ID	DWR_RD0999_05_s_2020_175				
Comment Code					
AG : Access Gates					
Inspector Comment					
An electric and metal gate crosses the crown and lines the waterside shoulder.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_175\_20230306\_00073.jpg



View of energized wire fencing across the levee crown behind the metal gate. Fall 2020

LM Start	8.59	Rating **	U	Issue No.	103
LM End	8.59	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Access Gates			38.410332°	38.410332°
				-121.532277°	-121.532277°
DWR ID	DWR_RD0999_05_s_2012_103				
Comment Code					
AG : Access Gates					
Inspector Comment					
Unpermitted fence and gate on the levee.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_103\_20230426\_00137.jpg



Fence and gate on the slopes and crown. Spring 2023

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

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.48	04/25/2023 04/25/2023	Marvin Marshall

LM Start	8.63	Rating **	U	Issue No.	104
LM End	8.63	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Access Gates			38.410617°	38.410617°
				-121.531694°	-121.531694°
DWR ID	DWR_RD0999_05_s_2019_104				
Comment Code					
AG : Access Gates					
Inspector Comment					
There is an unauthorized fence and gate that extends from the landside toe across the levee crown to waterside toe.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_104\_20230426\_00138.jpg



Gate and fence on the levee. Spring 2023

LM Start	8.74	Rating **	N	Issue No.	164
LM End	8.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.411668°	38.411668°
				-121.530162°	-121.530162°
DWR ID	DWR_RD0999_05_s_2020_164				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_164\_20230306\_00067.jpg



View of a large tree stump on the waterside slope. Spring 2020

LM Start	8.82	Rating **	U	Issue No.	224
LM End	8.82	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Access Gates			38.412718°	38.412718°
				-121.529724°	-121.529724°
DWR ID	DWR_RD0999_05_f_2016_224				
Comment Code					
AG : Access Gates					
Inspector Comment					
A landowner installed a gate across the levee crown without a permit.					

Photo 1 of 1 : SP\_2023\_RD0999\_236\_224\_20230306\_00090.jpg



Looking west at code pad on right side of gate.

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

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023

### Reclamation District No. 0999 Netherlands

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.48	04/25/2023 04/25/2023	Marvin Marshall

LM Start	8.83	Rating **	C	Issue No.	130
LM End	8.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.412788°	38.412788°
				-121.529682°	-121.529682°
DWR ID	DWR_RD0999_05_s_2019_130				
Comment Code					
V2 : Remove the wild growth and woody vegetation other than native grasses from the levee slopes.					
Inspector Comment					
Wild growth has been maintained.					

No Photos

LM Start	8.84	Rating **	C	Issue No.	159
LM End	8.84	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.412893°	38.412893°
				-121.529670°	-121.529670°
DWR ID	DWR_RD0999_05_f_2020_159				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings have been removed.					

No Photos

LM Start	8.95	Rating **	M	Issue No.	143
LM End	8.95	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Access Gates			38.414542°	38.414542°
				-121.529770°	-121.529770°
DWR ID	DWR_RD0999_05_f_2020_143				
Comment Code					
AG : Access Gates					
Inspector Comment					
A wrought iron automatic gate does not appear to be authorized.					

No Photos

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

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2023**

**Reclamation District No. 0999 Netherlands**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elk Slough	Right	9.48	04/25/2023 04/25/2023	Marvin Marshall

LM Start	9.39	Rating **	A/W	Issue No.	114
LM End	9.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.413377°	38.413377°
				-121.524500°	-121.524500°
DWR ID	DWR_RD0999_05_s_2012_114				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

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