

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2015 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

<b>RD0827</b>	Overall LMA Rating	Total LMA Miles						
<b>Reclamation District No. 0827 Elkhorn</b>	<b>U</b>	<b>4.12</b>						
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	1.10		1.10	26.68%				
Encroachments					0.52			
Animal Control	0.04		0.04	0.97%				
Slope Stability	0.02		0.02	0.49%				
Erosion / Bank Caving	0.01	0.01	0.05	1.21%				
Cracking							0.01	
<i>Supplemental</i>								
DWR UCIP Field Study					0.03	0.03		
<i>LMA Totals:</i>	1.17	0.01	1.21	29.35%	0.55	0.03	0.01	0.00

<b>Unit No. 01 Sacramento River RB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD0827</b>	<b>A</b>	<b>1.34</b>						
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					0.01			
Animal Control	0.02		0.02	1.49%				
Slope Stability	0.01		0.01	0.75%				
Erosion / Bank Caving	0.01		0.01	0.75%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.01			
<i>Unit Totals:</i>	0.04	0.00	0.04	2.98%	0.02	0.00	0.00	0.00

<b>Unit No. 02 Yolo Bypass LB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD0827</b>	<b>U</b>	<b>2.78</b>						
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	1.10		1.10	39.54%				
Encroachments					0.51			
Animal Control	0.02		0.02	0.72%				
Slope Stability	0.01		0.01	0.36%				
Erosion / Bank Caving		0.01	0.04	1.44%				
Cracking							0.01	
<i>Supplemental</i>								
DWR UCIP Field Study					0.02	0.03		
<i>Unit Totals:</i>	1.13	0.01	1.17	42.06%	0.53	0.03	0.01	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2015 Levee Inspection Results**

**Reclamation District No. 0827 Elkhorn**

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	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 2015 Levee Inspection Results**

**Reclamation District No. 0827 Elkhorn**

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Right	1.34
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	04/14/2015 - 04/14/2015		10/27/2015 - 10/27/2015	
DWR Inspector	Jai Lor		Jai Lor	
Accompanied By				

**Summer & Winter Inspections**

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

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- 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 2015**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	10/27/2015 10/27/2015	Jai Lor

LM Start		Rating **	A	Issue No.	5	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Operations & Maintenance Manuals				o	
					o	
DWR ID	DWR_RD0827_01_s _ 2013_5					
Action/Comments						
Inspector Comments: RD 827 has a copy of the levee manuals.						

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				°
					°
DWR ID	DWR_RD0827_01_s _ 2013_7				
Action/Comments					
Inspector Comments: RD 827 shares a maintained stockpile of Flood Response Material with RD 784.					

No Photos

LM Start		Rating **	A	Issue No.	9	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Flood Preparedness & Training				°	
					°	
DWR ID	DWR_RD0827_01_f _ 2014_9					
Action/Comments						
Inspector Comments: RD 827 works jointly with RD 784 on Flood Preparedness and Training.						

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  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**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	10/27/2015 10/27/2015	Jai Lor

LM Start	0.08	Rating **	M	Issue No.	3
LM End	0.08	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.674402 °	38.674402 °
				-121.629469 °	-121.629469 °
DWR ID	DWR_RD0827_01_f_2015_3				
Action/Comments					
Debris					

Photo 1 of 1 : FA\_2015\_RD0827\_187\_3\_20151102\_00011.jpg



View of the pallet on the crown of the levee looking downstream. Fall 2015.

LM Start	0.25	Rating **	C	Issue No.	108
LM End	0.25	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.672654 °	38.672654 °
				-121.627242 °	-121.627242 °
DWR ID	DWR_RD0827_01_s_2014_108				
Action/Comments					
Debris					

No Photos

LM Start	0.28	Rating **	M	Issue No.	109
LM End	0.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.672406 °	38.672406 °
				-121.626828 °	-121.626828 °
DWR ID	DWR_RD0827_01_s_2014_109				
Action/Comments					
Note and monitor erosion site.					
Inspector Comments: Some fill placed on slope.					

Photo 1 of 1 : FA\_2015\_RD0827\_187\_109\_20151102\_00012.jpg



View of the erosion on the waterward side of the levee looking downstream. Fall 2015.

<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**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	10/27/2015 10/27/2015	Jai Lor

LM Start	0.40	Rating **	M	Issue No.	6
LM End	0.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.671069 °	38.671069 °
				-121.625232 °	-121.625232 °
DWR ID	DWR_RD0827_01_f_2015_6				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	0.43	Rating **	C	Issue No.	110
LM End	0.43	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.670829 °	38.670829 °
				-121.624921 °	-121.624921 °
DWR ID	DWR_RD0827_01_s_2014_110				
Action/Comments					
Debris					

No Photos

LM Start	0.61	Rating **	A/W	Issue No.	22
LM End	0.92	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.668873 °	38.665750 °
				-121.622513 °	-121.618523 °
DWR ID	DWR_RD0827_01_s_2012_22				
Action/Comments					
Environmental Requirements.					

Photo 1 of 2 : FA\_2015\_RD0827\_187\_22\_20150914\_00002.jpg



Revegetation site spring 2012.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  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**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	10/27/2015 10/27/2015	Jai Lor

LM Start	0.61	Rating **	A/W	Issue No.	22 (cont)	
LM End	0.92	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.668873 °		38.665750 °
				-121.622513 °		-121.618523 °
DWR ID	DWR_RD0827_01_s _ 2012_22					
Action/Comments						
Environmental Requirements.						

Photo 2 of 2 : FA\_2015\_RD0827\_187\_22\_20151102\_00013.jpg



View of the revegetation site on the waterward side of the levee looking downstream. Fall 2015.

LM Start	0.73	Rating **	M	Issue No.	215
LM End	0.73	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.667731 °	38.667731 °
				-121.620992 °	-121.620992 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:38983 DS_ID:21147 EP_NO: N/A FS_HLM: 0.73 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to obtain additional information for this crossing. This crossing does not match original description listed in desk study. Need to coordinate with owner to obtain permit number authorizing modification. FIELD_STRUCT_DESC: 14-inch (not 16-inch as listed in desk study) pipe through the levee, 10.3 feet below the crown. 10-inch bypass pipe on waterward side. Siphon breaker on landward (not waterward) shoulder. Pump on platform (not mounted on 48-inch concrete pipe as described in desk study) on waterward bank. Metal (not wooden) walkway to the pump. 3/4-inch conduit through levee at unknown depth. FS Date: 03/18/2014					

Photo 1 of 3 : UCIP\_FA\_2015\_3488.jpg



Slant pump located on waterward side.

<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**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	10/27/2015 10/27/2015	Jai Lor

LM Start	0.73	Rating **	M	Issue No.	215 (cont)
LM End	0.73	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.667731 °	38.667731 °
				-121.620992 °	-121.620992 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:38983 DS_ID:21147 EP_NO: N/A FS_HLM: 0.73 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to obtain additional information for this crossing. This crossing does not match original description listed in desk study. Need to coordinate with owner to obtain permit number authorizing modification. FIELD_STRUCT_DESC: 14-inch (not 16-inch as listed in desk study) pipe through the levee, 10.3 feet below the crown. 10-inch bypass pipe on waterward side. Siphon breaker on landward (not waterward) shoulder. Pump on platform (not mounted on 48-inch concrete pipe as described in desk study) on waterward bank. Metal (not wooden) walkway to the pump. 3/4-inch conduit through levee at unknown depth. FS Date: 03/18/2014					

LM Start	<b>0.73</b>	Rating **	M	Issue No.	<b>215 (cont)</b>
LM End	<b>0.73</b>	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP\_FA\_2015\_3489.jpg



Pipe visible on waterward side.

Photo 3 of 3 : UCIP\_FA\_2015\_3490.jpg



Platform for pump located on waterward side.

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	10/27/2015 10/27/2015	Jai Lor

LM Start	0.96	Rating **	M	Issue No.	213
LM End	0.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.665287 °	38.665287 °
				-121.617981 °	-121.617981 °
DWR ID	DWR_RD0827_01_s _ 2015_213				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : FA\_2015\_RD0827\_187\_213\_20151102\_00014.jpg



View of the depression on the waterward side of the levee looking downstream. Fall 2015.

LM Start	0.97	Rating **	M	Issue No.	8
LM End	0.97	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.665213 °	38.665213 °
				-121.617886 °	-121.617886 °
DWR ID	DWR_RD0827_01_f _ 2015_8				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA\_2015\_RD0827\_187\_8\_20151102\_00015.jpg



View of the rodent hole on the waterward side of the levee looking downstream. Fall 2015.

<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**

**Unit Cover Sheet**

**Fall 2015 Levee Inspection Results**

**Reclamation District No. 0827 Elkhorn**

Waterway			Bank	Unit Miles
Unit No. 02 Yolo Bypass			Left	2.78
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/15/2015 - 04/15/2015		10/27/2015 - 10/27/2015	
DWR Inspector	Jai Lor		Jai Lor	
Accompanied By				

**Summer & Winter Inspections**

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

DWR must be informed on the:

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

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

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

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

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

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/27/2015 10/27/2015	Jai Lor

LM Start	0.02	Rating **	U	Issue No.	10
LM End	0.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.676549 °	38.676549 °
				-121.642703 °	-121.642703 °
DWR ID	DWR_RD0827_02_f_2015_10				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: It seems like someone poured water onto the levee slope and caused an erosion on the slope.					

Photo 1 of 2 : FA\_2015\_RD0827\_188\_10\_20151102\_00015.jpg



View of the erosion on the landward side of the levee looking downstream. Fall 2015.

LM Start	<b>0.02</b>	Rating **	U	Issue No.	<b>10 (cont)</b>
LM End	<b>0.02</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA\_2015\_RD0827\_188\_10\_20151102\_00016.jpg



It seems someone poured a large amount of water over the levee slope and caused the erosion. Fall 2015.

LM Start	0.02	Rating **	M	Issue No.	2
LM End	0.52	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.676440 °	38.669401 °
				-121.642747 °	-121.641417 °
DWR ID	DWR_RD0827_02_f_2012_2				
Action/Comments					
Ditch					

Photo 1 of 1 : FA\_2015\_RD0827\_188\_2\_20151102\_00014.jpg



View of the ditch on the landward side of the levee looking downstream. Fall 2015.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/27/2015 10/27/2015	Jai Lor

LM Start	0.64	Rating **	M	Issue No.	390
LM End	0.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.667880 °	38.667880 °
				-121.640587 °	-121.640587 °
DWR ID	DWR_RD0827_02_s _ 2015_390				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA\_2015\_RD0827\_188\_390\_20150914\_00009.jpg



View of the burrow on the water ward side of the levee looking upstream. Spring 2015.

LM Start	0.80	Rating **	U	Issue No.	391
LM End	0.80	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.665856 °	38.665856 °
				-121.639137 °	-121.639137 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:43923 DS_ID:21153 EP_NO: 17403 FS_HLM: 0.81 Repair Type: Urgent Crossing Status: Not Found UCIP Comments: No markers present. Need to contact owner to determine if pipe still in use. FIELD_STRUCT_DESC: 2.37-inch steel gasoline/pipe through the levee, 50.0 feet below the crown. Gas well on landward side. (Permit No. 17403-2001) FS Date: 03/18/2014					

No Photos

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

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/27/2015 10/27/2015	Jai Lor

LM Start	1.04	Rating **	U	Issue No.	392
LM End	1.04	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.662955 °	38.662955 °
				-121.636489 °	-121.636489 °
DWR ID					

**Action/Comments**

Inspector Comments: FS\_ID:38982  
 DS\_ID:24844  
 EP\_NO: 17403  
 FS\_HLM: 1.059  
 Repair Type: Urgent  
 Crossing Status: Indicator Found  
 UCIP Comments: No markers visible on either banks. Need to contact owner to determine status of crossing. Need date of last inspection and confirmation that crossing is still in operable condition.  
 FIELD\_STRUCT\_DESC: 2.375-inch diameter steel natural gas pipeline across and under (bored) the left (east) bank levee of Yolo Bypass and Tule Canal. (Permit No. 17403-2007)  
 FS Date: 03/18/2014

LM Start	<b>1.04</b>	Rating **	U	Issue No.	<b>392 (cont)</b>
LM End	<b>1.04</b>	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP\_FA\_2015\_1232.jpg



View of landward side.

Photo 2 of 3 : UCIP\_FA\_2015\_1233.jpg



Appurtenances for gas line located approximately 993 feet from levee crown.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  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**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/27/2015 10/27/2015	Jai Lor

LM Start	1.04	Rating **	U	Issue No.	392 (cont)
LM End	1.04	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.662955 °	38.662955 °
				-121.636489 °	-121.636489 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:38982					
DS_ID:24844					
EP_NO: 17403					
FS_HLM: 1.059					
Repair Type: Urgent					
Crossing Status: Indicator Found					

Photo 3 of 3 : UCIP\_FA\_2015\_4119.jpg



View of waterward side.

LM Start	1.40	Rating **	M	Issue No.	389
LM End	1.40	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.658877 °	38.658877 °
				-121.632550 °	-121.632550 °
DWR ID	DWR_RD0827_02_s_2015_389				
Action/Comments					
Monitor and have inspected by geotechnical engineer.					

Photo 1 of 1 : FA\_2015\_RD0827\_188\_389\_20150914\_00008.jpg

View of the crack on the water ward side of the levee looking upstream.  
Spring 2015.

LM Start	1.44	Rating **	M	Issue No.	8
LM End	1.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.658396 °	38.657869 °
				-121.632109 °	-121.631586 °
DWR ID	DWR_RD0827_02_f_2015_8				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/27/2015 10/27/2015	Jai Lor

LM Start	1.72	Rating **	M	Issue No.	9
LM End	2.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.655077 °	38.645116 °
				-121.629171 °	-121.622854 °
DWR ID	DWR_RD0827_02_f_2015_9				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	2.01	Rating **	C	Issue No.	5
LM End	2.13	Issue Type +	Ob	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.651316 °	38.649804 °
				-121.626680 °	-121.625759 °
DWR ID	DWR_RD0827_02_f_2013_5				
Action/Comments					
Monitor and have inspected by geotechnical engineer.					

No Photos

LM Start	2.03	Rating **	U	Issue No.	393
LM End	2.03	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.651052 °	38.651052 °
				-121.626501 °	-121.626501 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:43843 DS_ID:21159 EP_NO: 15904 FS_HLM: 2.06 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: Sign missing on WS and LS. Need to confirm status of crossing with permittee. Appears abandoned. FIELD_STRUCT_DESC: 3-inch steel pipe through the levee, 20.0 feet below the crown. Sign on waterward side. Yellow pipe visible east of ditch appr. 150 ft off LS toe. (Permit No. 15904-1992) FS Date: 03/10/2015					

Photo 1 of 3 : UCIP\_FA\_2015\_6092.jpg



View of LS.

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

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/27/2015 10/27/2015	Jai Lor

LM Start	2.03	Rating **	U	Issue No.	393 (cont)
LM End	2.03	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.651052 °	38.651052 °
				-121.626501 °	-121.626501 °
DWR ID					

**Action/Comments**

Inspector Comments: FS\_ID:43843  
 DS\_ID:21159  
 EP\_NO: 15904  
 FS\_HLM: 2.06  
 Repair Type: Urgent  
 Crossing Status: Indicator Found  
 UCIP Comments: Sign missing on WS and LS. Need to confirm status of crossing with permittee. Appears abandoned.  
 FIELD\_STRUCT\_DESC: 3-inch steel pipe through the levee, 20.0 feet below the crown. Sign on waterward side. Yellow pipe visible east of ditch appr. 150 ft off LS toe. (Permit No. 15904-1992)  
 FS Date: 03/10/2015

LM Start	<b>2.03</b>	Rating **	U	Issue No.	<b>393 (cont)</b>
LM End	<b>2.03</b>	Issue Type +	En	Location *	CR

Photo 2 of 3 : UCIP\_FA\_2015\_6093.jpg



Pipe visible east of ditch appr. 150 ft off LS toe.

Photo 3 of 3 : UCIP\_FA\_2015\_6094.jpg



Yellow pipe visible off LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  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**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/27/2015 10/27/2015	Jai Lor

LM Start	2.04	Rating **	M	Issue No.	6
LM End	2.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.650868 °	38.649845 °
				-121.626432 °	-121.625798 °
DWR ID	DWR_RD0827_02_f _ 2015_6				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	2.18	Rating **	M	Issue No.	388
LM End	2.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.649108 °	38.649108 °
				-121.625296 °	-121.625296 °
DWR ID	DWR_RD0827_02_s _ 2015_388				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	2.24	Rating **	M	Issue No.	4
LM End	2.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.648240 °	38.646419 °
				-121.624800 °	-121.623654 °
DWR ID	DWR_RD0827_02_f _ 2015_4				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

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**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/27/2015 10/27/2015	Jai Lor

LM Start	2.73	Rating **	M	Issue No.	394
LM End	2.73	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.641922 °	38.641922 °
				-121.620884 °	-121.620884 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:38984 DS_ID:21151 EP_NO: 3277 FS_HLM: 2.76 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing appears to have been removed and replaced under maintenance back in 2008. No permit has been found--need to contact owner to obtain additional information about replacement. Landward slope sloughing--does not appear to be associated with crossing. Landward slope is being monitored by LMA. FIELD_STRUCT_DESC: 18-inch (not 20-inch as noted in desk study) steel drainpipe through the levee, 4.0 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe at waterward shoulder. Pump on pipe structure in drainage ditch at landward toe. Rock revetment on waterward slope. Pipe retained through levee and updates required to crossing under Permit No. 3277 (1960). FS Date: 03/18/2014					

Photo 1 of 3 : UCIP\_FA\_2015\_3491.jpg



Pipe exposed on landward side.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/27/2015 10/27/2015	Jai Lor

LM Start	<b>2.73</b>	Rating **	M	Issue No.	<b>394 (cont)</b>
LM End	<b>2.73</b>	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.641922 °	38.641922 °
				-121.620884 °	-121.620884 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:38984 DS_ID:21151 EP_NO: 3277 FS_HLM: 2.76 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing appears to have been removed and replaced under maintenance back in 2008. No permit has been found--need to contact owner to obtain additional information about replacement. Landward slope sloughing--does not appear to be associated with crossing. Landward slope is being monitored by LMA. FIELD_STRUCT_DESC: 18-inch (not 20-inch as noted in desk study) steel drainpipe through the levee, 4.0 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe at waterward shoulder. Pump on pipe structure in drainage ditch at landward toe. Rock revetment on waterward slope. Pipe retained through levee and updates required to crossing under Permit No. 3277 (1960). FS Date: 03/18/2014					

Photo 2 of 3 : UCIP\_FA\_2015\_3492.jpg



View of landward side.

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



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/27/2015 10/27/2015	Jai Lor

LM Start	<b>2.73</b>	Rating **	M	Issue No.	<b>394 (cont)</b>
LM End	<b>2.73</b>	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.641922 °	38.641922 °
				-121.620884 °	-121.620884 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:38984 DS_ID:21151 EP_NO: 3277 FS_HLM: 2.76 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing appears to have been removed and replaced under maintenance back in 2008. No permit has been found--need to contact owner to obtain additional information about replacement. Landward slope sloughing--does not appear to be associated with crossing. Landward slope is being monitored by LMA. FIELD_STRUCT_DESC: 18-inch (not 20-inch as noted in desk study) steel drainpipe through the levee, 4.0 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe at waterward shoulder. Pump on pipe structure in drainage ditch at landward toe. Rock revetment on waterward slope. Pipe retained through levee and updates required to crossing under Permit No. 3277 (1960). FS Date: 03/18/2014					

Photo 3 of 3 : UCIP\_FA\_2015\_3493.jpg



View of pipe visible on waterward side.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/27/2015 10/27/2015	Jai Lor

LM Start	<b>2.75</b>	Rating **	M	Issue No.	<b>395</b>
LM End	<b>2.75</b>	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.641633 °	38.641633 °
				-121.620725 °	-121.620725 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:33032 DS_ID:21169 EP_NO: 5611 FS_HLM: 2.79 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing appears to have been removed and replaced under maintenance back in 2008. No permit has been found--need to contact owner to obtain additional information about replacement. FIELD_STRUCT_DESC: [RD No. 827 Pumping Plant] 22-inch (not 24-inch as mentioned in desk study) steel drainpipe through the levee, 8.0 feet below the crown. CM cutoff wall around pipe at center of levee. Siphon breaker on waterward slope. Flap gate on waterward end. Pipe is exposed along waterward slope. (USACE-1955). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Station 3+75). Portion of pipe was removed and replaced, from landward side to waterward shoulder, under Permit No. 5611 (1968). FS Date: 03/18/2014					

Photo 1 of 3 : UCIP\_FA\_2015\_3626.jpg



Remininse piles located on landward side.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

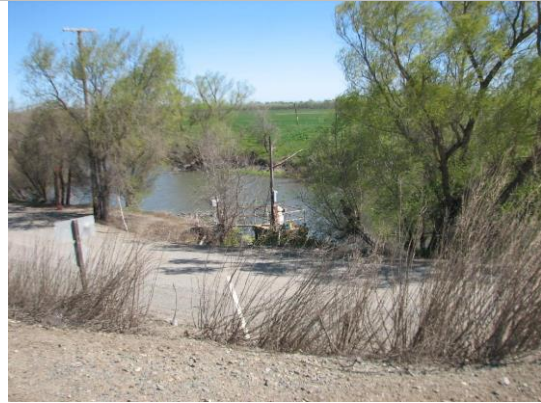
**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/27/2015 10/27/2015	Jai Lor

LM Start	<b>2.75</b>	Rating **	M	Issue No.	<b>395 (cont)</b>
LM End	<b>2.75</b>	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.641633 °	38.641633 °
				-121.620725 °	-121.620725 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:33032 DS_ID:21169 EP_NO: 5611 FS_HLM: 2.79 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing appears to have been removed and replaced under maintenance back in 2008. No permit has been found--need to contact owner to obtain additional information about replacement. FIELD_STRUCT_DESC: [RD No. 827 Pumping Plant] 22-inch (not 24-inch as mentioned in desk study) steel drainpipe through the levee, 8.0 feet below the crown. CM cutoff wall around pipe at center of levee. Siphon breaker on waterward slope. Flap gate on waterward end. Pipe is exposed along waterward slope. (USACE-1955). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Station 3+75). Portion of pipe was removed and replaced, from landward side to waterward shoulder, under Permit No. 5611 (1968). FS Date: 03/18/2014					

Photo 2 of 3 : UCIP\_FA\_2015\_3627.jpg



Pump station located on landward side.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/27/2015 10/27/2015	Jai Lor

LM Start	2.75	Rating **	M	Issue No.	395 (cont)	
LM End	2.75	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.641633 °	38.641633 °	
				-121.620725 °	-121.620725 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:33032 DS_ID:21169 EP_NO: 5611 FS_HLM: 2.79 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing appears to have been removed and replaced under maintenance back in 2008. No permit has been found--need to contact owner to obtain additional information about replacement. FIELD_STRUCT_DESC: [RD No. 827 Pumping Plant] 22-inch (not 24-inch as mentioned in desk study) steel drainpipe through the levee, 8.0 feet below the crown. CM cutoff wall around pipe at center of levee. Siphon breaker on waterward slope. Flap gate on waterward end. Pipe is exposed along waterward slope. (USACE-1955). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Station 3+75). Portion of pipe was removed and replaced, from landward side to waterward shoulder, under Permit No. 5611 (1968). FS Date: 03/18/2014						

Photo 3 of 3 : UCIP\_FA\_2015\_3628.jpg



Pipe exposed on waterward side.

LM Start	2.77	Rating **	M	Issue No.	7
LM End	2.77	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.641337 °	38.641337 °
				-121.620586 °	-121.620586 °
DWR ID	DWR_RD0827_02_f_2015_7				
Action/Comments					
Debris					

Photo 1 of 1 : FA\_2015\_RD0827\_188\_7\_20151102\_00010.jpg



View of the debris dumped on the crown and waterward side of the levee looking upstream. Fall 2015.

* 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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