

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

Sutter Maintenance Yard Maintenance Area 0007

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

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

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

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

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2015 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0007

Waterway		Bank	Unit Miles
Unit No. 01 Feather River		Right	11.90

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	05/05/2015 - 05/05/2015			
DWR Inspector	Michael Pitta			
Accompanied By	Sean Freitag			

Summer & Winter Inspections

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

DWR must be informed on the:

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

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start		Rating **	A	Issue No.	1
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			o	o
DWR ID	DWR_MA0007_01_s_2013_1				
Action/Comments					
Inspector Comments: The O&M manuals are located at the Sutter Maintenance Yard.					

No Photos

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			o	o
DWR ID	DWR_MA0007_01_s_2013_3				
Action/Comments					
Inspector Comments: Emergency supplies and equipment are stored at the Sutter Maintenance Yard.					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			o	o
DWR ID	DWR_MA0007_01_s_2013_4				
Action/Comments					
Inspector Comments: Sutter Maintenance Yard employees attend the annual Flood Fight class put on by DWR inspector Bob Duffy.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	0.00	Rating **	C	Issue No.	46
LM End	8.07	Issue Type +	En	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments			°	°
DWR ID	DWR_MA0007_01_f_2014_46				
Action/Comments					
Material					

No Photos

LM Start	0.01	Rating **	A	Issue No.	47
LM End	1.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		39.311097 °	39.335015 °	
			-121.637638 °	-121.633808 °	
DWR ID	DWR_MA0007_01_s_2015_47				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : SP_2015_MA0007_200_47_20150505_00017.jpg



The view of the vegetation was taken on the waterside facing upstream.

LM Start	0.03	Rating **	M	Issue No.	42
LM End	1.72	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.311297 °	39.334365 °	
			-121.637490 °	-121.633975 °	
DWR ID	DWR_MA0007_01_s_2012_42				
Action/Comments					
Ditch Inspector Comments: Erosion along landward levee slope due to agricultural ditch.					

Photo 1 of 2 : SP_2015_MA0007_200_42_20150401_00007.jpg



This photo was taken from the levee crown facing north looking at the erosion along the landward levee slope due to an agricultural ditch. Spring 2014.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	0.03	Rating **	M	Issue No.	42 (cont)
LM End	1.72	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.311297 °	39.334365 °
				-121.637490 °	-121.633975 °
DWR ID	DWR_MA0007_01_s_2012_42				
Action/Comments					
Ditch Inspector Comments: Erosion along landward levee slope due to agricultural ditch.					

Photo 2 of 2 : SP_2015_MA0007_200_42_20150401_00008.jpg



Agricultural ditch landside slope and toe.

LM Start	0.43	Rating **	C	Issue No.	216
LM End	0.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.316451 °	39.316451 °
				-121.633837 °	-121.633837 °
DWR ID	DWR_MA0007_01_f_2013_216				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Remove tree between levee crown and ditch on landward side.					

No Photos

LM Start	0.47	Rating **	M	Issue No.	48
LM End	0.47	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.316950 °	39.316950 °
				-121.633438 °	-121.633438 °
DWR ID	DWR_MA0007_01_s_2015_48				
Action/Comments					
Tank					

Photo 1 of 1 : SP_2015_MA0007_200_48_20150505_00016.jpg



This view of the tanks was taken looking at the waterside of the levee facing upstream.

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River		Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	0.48	Rating **	M	Issue No.	217
LM End	0.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		39.317050 °	39.317050 °	
			-121.633331 °	-121.633331 °	
DWR ID	DWR_MA0007_01_f_2013_217				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Rodents holes were observed but no rodents visible at time of inspection.					

Photo 1 of 2 : SP_2015_MA0007_200_217_20150401_00014.jpg



Up close photo of said rodent holes. Fall 2013.

LM Start	0.48	Rating **	M	Issue No.	217 (cont)
LM End	0.48	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2015_MA0007_200_217_20150401_00015.jpg



This photo was taken from the crown of the levee facing north looking down the slope at rodent holes. Fall 2013.

LM Start	1.21	Rating **	U	Issue No.	33
LM End	1.21	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.327187 °	39.327187 °	
			-121.632395 °	-121.632395 °	
DWR ID	DWR_MA0007_01_s_2012_33				
Action/Comments					
Building					

Photo 1 of 1 : SP_2015_MA0007_200_33_20150401_00004.jpg



Levee mile 1.21. This is a photo of the building on the waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	1.54	Rating **	M	Issue No.	390
LM End	1.54	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.331934 °	39.331934 °
				-121.633246 °	-121.633246 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42760 DS_ID:16928 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: crossing appears abandoned, slide gate is missing on landward side; wood frame remains on LS; scour hole present on LS, 3 feet by 3 feet, near wood frame 5/10/2013 Same as last inspection. LS scour behind structure needs to be repaired 5/13/2013 SBFCA project recommends replacing in accordance with title 231/6/2013 Same as last inspection 5/19/2014 Same as last inspection. 12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 12-inch CM pipe through the levee, 8.2 feet below the crown. Slide gate on the landward is no longer present. Concrete "U" headwall at the waterward toe. Irrigation ditch located on landward side. FS Date: 12/30/2014					

No Photos

LM Start	1.55	Rating **	M	Issue No.	2
LM End	1.71	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.332000 °	39.334240 °
				-121.633178 °	-121.633908 °
DWR ID	DWR_MA0007_01_f_2014_2				
Action/Comments					
Inspector Comments: 2011 - The toe of the levee has been excavated by the land owner. Small holes throughout the site have been filled with a plaster like substance. Large canal on landside slope and over the levee toe. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: FHR_47-5_R]					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	1.70	Rating **	C	Issue No.	220
LM End	1.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.334157 °	39.334157 °
				-121.633964 °	-121.633964 °
DWR ID	DWR_MA0007_01_f_2013_220				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Blackberry bushes on the landward levee slope.					

No Photos

LM Start	1.76	Rating **	M	Issue No.	391
LM End	1.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.334868 °	39.334868 °
				-121.633773 °	-121.633773 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42763 DS_ID:16926 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0060 however, no issues noted 5/7/2013 Same debris issue as last inspection. Recommend repairing top cover to prevent falls. Wheel to open gate chained and locked so could not verify gate operation 5/13/2013 SBFCA project recommends replacing in accordance with title 231/6/2013 Same as last inspection 5/19/2014 Same as last inspection 12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 60-inch drain pipe through the levee, 1 of 2 pipes, two (2) 60 inch pipes, 12.5 feet below the crown. Slide gates in 78-inch CM pipe wells on the waterward slope. Concrete bulkhead on both ends. Reinforced concrete spillway on the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 1+90). (USACE O&M Manual, 1957) FS Date: 12/30/2014					

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 - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	1.76	Rating **	M	Issue No.	392
LM End	1.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.334886 °	39.334886 °
				-121.633783 °	-121.633783 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42764 DS_ID:17011 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: no cover; debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0060 however, no issues noted 5/7/2013 Same as last inspection. Recommend constructing cover to prevent falls. Wheel to operate gate chained and locked so gate operation could not be verified 5/13/2013 SBFCA project recommends replacing in accordance with title 231/6/2013 Same as last inspection 5/19/2014 Same as last inspection. 12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 60-inch drain pipe through the levee, 2 of 2 pipes, two (2) 60 inch pipes, 12.5 feet below the crown. Slide gates in 78-inch CM pipe wells on the waterward slope. Concrete bulkhead on both ends. Reinforced concrete spillway on the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 1+90). (USACE O&M Manual, 1957) FS Date: 12/30/2014					

No Photos

LM Start	1.77	Rating **	A/W	Issue No.	50
LM End	4.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.335016 °	39.366547 °
				-121.633807 °	-121.647511 °
DWR ID	DWR_MA0007_01_s_2015_50				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	1.77	Rating **	A/W	Issue No.	49
LM End	3.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.335016 °	39.351794 °
				-121.633808 °	-121.631249 °
DWR ID	DWR_MA0007_01_s_2015_49				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	1.93	Rating **	M	Issue No.	52
LM End	1.93	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.337336 °	39.337336 °
				-121.633536 °	-121.633536 °
DWR ID	DWR_MA0007_01_s_2015_52				
Action/Comments					
Prunings					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	2.25	Rating **	M	Issue No.	393
LM End	2.25	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.341208 °	39.341208 °
				-121.630773 °	-121.630773 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42770 DS_ID:16923 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Erosion on waterward side around concrete standpipe--might be leaking. Burrow activity present on waterward slope, unable to determine if structure is still being used. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0075 however, no issues noted 5/7/2013 Same as last inspection. Need to investigate source of WS erosion 5/13/2013 SBFCA project recommends removal 1/6/2013 Same as last inspection 5/19/2014 Same as last inspection 12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 24-inch CM drainpipe through the levee 12.7 feet below the crown. Flap gate on the waterward end. Concrete distribution box at the waterward toe. Second concrete distribution box located 400-500 feet from landward toe likely connected with drainage structure. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 28+00). (USACE O&M Manual, 1957) FS Date: 12/30/2014					

No Photos

LM Start	2.37	Rating **	M	Issue No.	394
LM End	2.37	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.342859 °	39.342859 °
				-121.629909 °	-121.629909 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42771 DS_ID:20817 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need permit authorizing work 5/7/2013 Need to find owner of structure 5/13/2013 Permit number and owner in detailed report book 1/6/2013 Air vac bent over and both metal posts are laying at toe of levee 5/19/2014 Same as last inspection 12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: Air vac on waterward shoulder protected by two metal posts. No other signs of encroachment are present. FS Date: 12/30/2014					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	2.57	Rating **	M	Issue No.	395
LM End	2.57	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.345638 °	39.345638 °
				-121.629607 °	-121.629607 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42772 DS_ID:16910 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: WS headwall may be present not visible due to soil cover. Sediment build up on landward headwall--clear. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0083 for inoperable gate 6/7/2013 WS sediment blocking gate has been cleared so gate can operate normally. Recommend clearing sediment buildup at mouth of pipe on LS/13/2013 SBFCA project recommends replacing in accordance with title 231/6/2013 Same as last inspection 5/19/2014 Same as last inspection 12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 6.7 feet below the crown. Flap gate on the waterward end. Concrete headwall at both toes. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 44+50). (USACE O&M Manual, 1957) FS Date: 12/30/2014					

No Photos

LM Start	2.74	Rating **	U	Issue No.	396
LM End	2.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.347977 °	39.347977 °
				-121.630337 °	-121.630337 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42774 DS_ID:16921 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: CMP riser damage-repair needed. Unable to locate pipe on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0090 however, no issues noted 6/7/2013 Same as last inspection, rodent activity near crossing, need to repair rodent hole on WS/13/2013 SBFCA project recommends relacing in accordance with title 231/6/2013 Same as last inspection 5/19/2014 Same as last inspection 12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drain pipe through the levee, 25.5 feet below the crown. Slide gate in 36-inch CM pipe riser on the waterward slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 52+50). (USACE O&M Manual, 1957) FS Date: 12/30/2014					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	2.83	Rating **	M	Issue No.	397
LM End	2.83	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.349158 °	39.349158 °
				-121.630354 °	-121.630354 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:42775 DS_ID:16919 EP_NO: 5722 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: dense burrow activity on crown and slope 5/7/2013 Same as last inspection. WS sediment drop above concrete stand pipe. Coordinate with owner and levee inspector to address issue 5/13/2013 SBFCA project recommends relacing in accordance with title 231/6/2013 Same as last inspection 5/19/2014 Same as last inspection 12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 1-12 inch cement coated and lined steel sewer pipe sleeved through the existing 24-inch CM pipe. Annular space pressure grouted. A 36 inch diameter reinforced concrete pipe riser is located on the waterward side. (Permit No. 5722-1968) The existing 24-inch CMP matches the Drainage or Irrigation structure referenced in the O&M manual (historic station 56+90, USACE O&M Manual, 1957) 24-inch CM pipe goes through levee at a depth of 21.4 feet below the crown. Slide gate in 36-inch reinforced concrete pipe riser located on the waterward slope. Crossing 2 of 2 see levee mile 3.35 entry. FS Date: 12/30/2014					

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	3.04	Rating **	M	Issue No.	398
LM End	3.04	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.352159 °	39.352159 °
				-121.631209 °	-121.631209 °
DWR ID					
Action/Comments					
<p>Inspector Comments: FS_ID:42776 DS_ID:16918 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to determine if this crossing has been altered, will need to coordinate with levee inspector. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0104 however, no issues reported 5/7/2013 Structure does appear to be altered. Contact Levee Inspector to pursue NO 5/13/2013 SBFCA project recommends relacing in accordance with title 231/6/2013 Same as last inspection 5/19/2014 Same as last inspection 12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee, 15.3 feet below the crown. A reinforced concrete pipe riser located on the waterward side. Flap gate inside riser on the waterward end. 12-inch pipe sleeved through 24-inch pipe. (USACE O&M Manual, 1957) FS Date: 12/30/2014</p>					

No Photos

LM Start	3.34	Rating **	M	Issue No.	399
LM End	3.34	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.354549 °	39.354549 °
				-121.635326 °	-121.635326 °
DWR ID					
Action/Comments					
<p>Inspector Comments: FS_ID:42778 DS_ID:16917 EP_NO: 5722 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: shallow penetration--markers should be present at both sides of the levee to prevent damage to crossing. Marker on waterward side is damaged 5/7/2013 Contact City of Gridley to install carsonite markers on LS to mark crossings location 5/13/2013 SBFCA project recommends relacing in accordance with title 231/6/2013 Same as last inspection 5/19/2014 Same as last inspection 12/29/2014 SBFCA project has levee access blocked. Could not reach crossing. FIELD_STRUCT_DESC: 18-inch cast iron sewer pipe through the levee, 2.8 feet below the crown. Concrete thrust block for cutoff walls on both shoulders. Siphon breaker in concrete pipe riser on the waterward shoulder. Pipe crosses river and discharges into sewer ponds in the left bank overflow area. (Permit No. 5722-1968) FS Date: 12/30/2014</p>					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	3.52	Rating **	A/W	Issue No.	53
LM End	4.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.356435 °	39.366547 °
				-121.638184 °	-121.647511 °
DWR ID	DWR_MA0007_01_s_2015_53				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	4.08	Rating **	M	Issue No.	400
LM End	4.08	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.362706 °	39.362706 °
				-121.643678 °	-121.643678 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42779 DS_ID:20818 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Markers need to be replaced--marker should also be present on landward side 5/7/2013 Same as last inspection 11/6/2013 Same as last inspection 5/19/2014 Same as last inspection 12/29/2014 SBFCA project has levee access blocked. Could not reach crossing. FIELD_STRUCT_DESC: 8 inch steel sewer line about 2.5 feet below crown. Air relief valve (12 inch by 24 inch) box located on landward shoulder. From waterward side, sewer line runs parallel along levee for approximately 3,952 feet downstream and ties into existing 18 inch pipeline located at LM 3.341. FS Date: 12/30/2014					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	4.24	Rating **	C	Issue No.	389
LM End	4.24	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.364815 °	39.364815 °
				-121.646005 °	-121.646005 °
DWR ID	DWR_MA0007_01_s_2012_389				
Action/Comments					
Crops					

No Photos

LM Start	4.39	Rating **	M	Issue No.	39
LM End	5.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.366547 °	39.379961 °
				-121.647523 °	-121.650632 °
DWR ID	DWR_MA0007_01_s_2012_39				
Action/Comments					
Ditch					

Photo 1 of 2 : SP_2015_MA0007_200_39_20150401_00005.jpg



Ag ditch landside slope and toe.

LM Start	4.39	Rating **	M	Issue No.	39 (cont)
LM End	5.34	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP_2015_MA0007_200_39_20150401_00006.jpg



This is a photo of the Ag ditch on the landside slope and toe.

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	4.39	Rating **	M	Issue No.	8
LM End	4.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.366726 °	39.367606 °
				-121.647217 °	-121.647866 °
DWR ID	DWR_MA0007_01_f_2014_8				
Action/Comments					
Inspector Comments: 2012 - Oversteepened slope with failing rock (from repair completed in 1954). Likely slope stability issues. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: FHR_50-9_R]					

No Photos

LM Start	4.73	Rating **	M	Issue No.	54
LM End	4.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.371140 °	39.371140 °
				-121.649897 °	-121.649897 °
DWR ID	DWR_MA0007_01_s_2015_54				
Action/Comments					
Note and monitor erosion site.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	4.98	Rating **	M	Issue No.	401
LM End	4.98	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.373851 °	39.373851 °
				-121.650322 °	-121.650322 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42786 DS_ID:16943 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: burrow activity on waterward slope. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0160 no issues reported 5/10/2013 Barrel down inside standpipe. Slide gate difficult to operate 5/13/2013 SBFCA project recommends relacing in accordance with title 231/7/2013 Same as last inspection 5/19/2014 Same as last inspection 12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 42-inch CM pipe through the levee 13.6 feet below the crown. Concrete distribution box with slide gate inside located on waterward side. 36-inch pipe goes through the waterward side berm. FS Date: 12/31/2014					

No Photos

LM Start	5.22	Rating **	U	Issue No.	402
LM End	5.22	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.377343 °	39.377343 °
				-121.650450 °	-121.650450 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42787 DS_ID:23095 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 5/9/2013 Appeared to be damaged where it exits the WS slope, minor settling on LS toe, unable to obtain permit. SBFCA project recommends replacing in accordance with title 231/7/2013 More damage has occurred to power wires. Live wires are now exposed. Power company is aware of the problem and are going to fix 5/19/2014 Same as last inspection 12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 2.5 inch steel electrical conduit 3-4 feet below crown of levee. FS Date: 12/31/2014					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	5.34	Rating **	C	Issue No.	32
LM End	5.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.379947 °	39.379947 °
				-121.650525 °	-121.650525 °
DWR ID	DWR_MA0007_01_s_2012_32				
Action/Comments					
Building					

No Photos

LM Start	5.36	Rating **	C	Issue No.	9
LM End	5.36	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.380153 °	39.380153 °
				-121.650447 °	-121.650447 °
DWR ID	DWR_MA0007_01_s_2012_9				
Action/Comments					
Tank					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	5.40	Rating **	M	Issue No.	403
LM End	5.40	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.379838 °	39.379838 °
				-121.650611 °	-121.650611 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42789 DS_ID:16920 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No access to landward side--residential property; unable to determine the type of abandonment for this crossing; need to determine if there is a positive closure device on waterward side. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0173 unknown 5/10/2013 Same as last inspection 5/13/2013 SBFCA project recommends relacing in accordance with title 231/7/2013 Same as last inspection 5/19/2014 Same as last inspection 12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 24-inch CM irrigation pipe through the levee, 14.0 feet below the crown. Slide gate on the landward side. Slide gate in concrete pipe riser on the waterward berm. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 191+13). (USACE O&M Manual, 1957) FS Date: 12/31/2014					

No Photos

LM Start	5.40	Rating **	M	Issue No.	5
LM End	6.00	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.380272 °	39.380527 °
				-121.649622 °	-121.638423 °
DWR ID	DWR_MA0007_01_f_2012_5				
Action/Comments					
Agricultural tilling Inspector Comments: This site is property of Cilker Revocable Trust, it has an encroachment violation notice dated 7-23-2012, enforcement action : 2011-321. The stockpile has been removed, excavation at the levee toe is still present.					

Photo 1 of 1 : SP_2015_MA0007_200_5_20150401_00001.jpg



This photo shows vehicle traffic has cut into the toe of the levee.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	5.49	Rating **	M	Issue No.	404
LM End	5.49	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.380377 °	39.380377 °
				-121.649344 °	-121.649344 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42791 DS_ID:16922 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment blocking flap gates on waterward side--need to clear sediment. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0180 no issues reported 5/10/2013 Same as last inspection 5/13/2013 SBFCA project recommends relacing in accordance with title 231/7/2013 Same as last inspection 5/19/2014 Same as last inspection 12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 1 of 2: 60 inch pipe (downstream pipe), through the levee, 23.4 feet below the crown. Flap gate on the waterward end. Concrete headwalls on both ends. Ditch at waterward outlet. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 195+80). (USACE O&M Manual, 1957) FS Date: 12/31/2014					

No Photos

LM Start	5.49	Rating **	M	Issue No.	405
LM End	5.49	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.380377 °	39.380377 °
				-121.649319 °	-121.649319 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42792 DS_ID:17013 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment blocking flap gate--need to remove sediment to make flap gates operational 5/10/2013 Same as last inspection 5/13/2013 SBFCA project recommends relacing in accordance with title 231/7/2013 Same as last inspection 5/19/2014 Same as last inspection 12/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 2 of 2: 60 inch pipe (upstream pipe), through the levee, 23.4 feet below the crown. Flap gate on the waterward end. Concrete headwalls on both ends. Ditch located at waterward outlet. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 195+80). (USACE O&M Manual, 1957) FS Date: 12/31/2014					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	7.85	Rating **	M	Issue No.	406
LM End	7.85	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.398336 °	39.398336 °
				-121.630529 °	-121.630529 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42798 DS_ID:16960 EP_NO: 17895 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: localized erosion at air vent located on waterward shoulder; this crossing appears to have leaking at the air vent--will need to determine reason for erosion at air vent (vehicles going over vent?); also recommend installing utility market.1/7/2013 Same as last inspection.5/19/2014 Same as last inspection.12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 5-inch diameter steel irrigation pipe through the right (west) bank levee and connect to existing pipe within the overflow area of the Feather River. (Permit No. 17895-2005) FS Date: 12/31/2014					

No Photos

LM Start	8.56	Rating **	U	Issue No.	407
LM End	8.56	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.404475 °	39.404475 °
				-121.636958 °	-121.636958 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:43101 DS_ID:23096 EP_NO: N/A Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 5/9/13 Depression along WS slope that could indicate a leak or poor compaction. Unknown permit number need to coordinate with landowner to find out more info.1/7/2013 Same as last inspection.5/19/2014 Same as last inspection.12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Irrigation crossing through levee depth unknown. Steel stand pipe located on landward toe. Also present is 4.5 inch PVC pipe near stand pipe located on landward toe. FS Date: 12/31/2014					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	8.72	Rating **	U	Issue No.	408
LM End	8.72	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.406614 °	39.406614 °
				-121.637384 °	-121.637384 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42802 DS_ID:23094 EP_NO: N/A Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 5/9/13 Unkown permit coordinate with landowner to find out more information1/7/2013 Same as last inspection5/19/2014 Same as last inspection12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Unknown irrigation pipe size at unknown depth. Pipe capped with valve inside of 6 inch steel standpipe on landward shoulder. FS Date: 12/31/2014					

No Photos

LM Start	8.76	Rating **	M	Issue No.	409
LM End	8.76	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.407159 °	39.407159 °
				-121.637409 °	-121.637409 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42804 DS_ID:16949 EP_NO: 14200 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Landward shoulder, small hole with too much moisture; rocks look wet last rain event occurred 4 days ago5/10/2013 Appears to just be surface erosion and not a crossing. Will keep monitoring until sur5/13/2013 SBFCA project recommends relacing in accordance with title 231/7/2013 Same as last inspection5/19/2014 Same as last inspection12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 2-inch diameter galvanized pipe line 2 feet below crown. (Permit No. 14200-1985) FS Date: 12/31/2014					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	9.65	Rating **	U	Issue No.	45
LM End	9.65	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.416384 °	39.416384 °
				-121.634503 °	-121.634503 °
DWR ID	DWR_MA0007_01_s_2012_45				
Action/Comments					
Building					

Photo 1 of 1 : SP_2015_MA0007_200_45_20150401_00010.jpg



This photo shows a building at the landside toe.

LM Start	9.67	Rating **	M	Issue No.	410
LM End	9.67	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.416284 °	39.416284 °
				-121.632224 °	-121.632224 °
DWR ID					
Action/Comments					
<p>Inspector Comments: FS_ID:42805 DS_ID:16948 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: unable to determine the condition of the slide gate inside waterward concrete standpipe blackberry shrubs overgrown against access ladder 5/10/2013 Same as last inspection. Cleared back some of the black berries but live birds nest on ladder prevented me from inspecting inside of standpipe. Recommend spraying the black berries to clear path to ladder 5/13/2013 SBFCA project recommends relacing in accordance with title 231.7/2013 Same as last inspection 5/20/2014 Same as last inspection 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 14.0 feet below the crown. Slide gate in 36-inch concrete standpipe at the waterward toe. Concrete distribution box at the landward toe. FS Date: 12/31/2014</p>					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	9.69	Rating **	M	Issue No.	51
LM End	9.69	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.416864 °	39.416864 °	
			-121.634822 °	-121.634822 °	
DWR ID	DWR_MA0007_01_s_2014_51				
Action/Comments					
Debris Inspector Comments: Irrigation pipe on landward levee slope. Spring 2014.					

Photo 1 of 1 : SP_2015_MA0007_200_51_20150401_00012.jpg



This photo was taken from the levee crown facing north looking at irrigation pipe placed on the levee slope near the landward toe. Spring 2014.

LM Start	10.12	Rating **	M	Issue No.	411
LM End	10.12	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.420736 °	39.420736 °	
			-121.635321 °	-121.635321 °	
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42809 DS_ID:16947 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Crossing appears to be abandoned; slide gate located inside concrete standpipe is buried with trash; no other features were visible during inspection. This crossing needs to be properly abandoned 5/10/2013 Same as last inspection 5/13/2013 SBFCA project recommends removal 1/7/2013 Same as last inspection 5/20/2014 Same as last inspection 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 10-inch reinforced concrete encased steel irrigation pipe through the levee, 14.5 feet below the crown. Slide gate in 24-inch concrete standpipe at the waterward toe. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 437+30). (USACE O&M Manual, 1957) FS Date: 12/31/2014					

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 - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	10.25	Rating **	M	Issue No.	412
LM End	10.25	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.420905 °	39.420905 °
				-121.637707 °	-121.637707 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42810 DS_ID:16946 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: unable to determine if this crossing still is in use, signs of depression on waterward shoulder, pump located on LS (GW?) valve on waterward toe. No slide gate or concrete standpipe present; structure appears to have been modified--need permit issued for modification 5/10/2013 Same as last inspection 5/13/2013 SBFCA project recommends removal 1/7/2013 Same as last inspection 5/20/2014 Same as last inspection 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 14.5 feet below the crown. Slide gate in concrete standpipe and pump on the landward side. FS Date: 12/31/2014					

No Photos

LM Start	10.83	Rating **	M	Issue No.	413
LM End	10.83	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.426781 °	39.426781 °
				-121.642078 °	-121.642078 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42811 DS_ID:16933 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: nothing found on landward side--residential; no headwall found on landward side--has it been buried? Need to investigate if crossing is here. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0314 no issues reported 5/10/2013 Same as last inspection 5/13/2013 SBFCA project recommends removal 1/7/2013 Same as last inspection 5/20/2014 Same as last inspection 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee, 14.5 feet below the crown. Concrete headwall at both toes. Flap gate in 36-inch concrete standpipe on the berm. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 471+26). (USACE O&M Manual, 1957) FS Date: 12/31/2014					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	10.95	Rating **	M	Issue No.	414
LM End	10.95	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.428380 °	39.428380 °
				-121.642228 °	-121.642228 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42812 DS_ID:16944 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: crossing appears to be abandoned--unknown method of abandonment; headwall buried with a small section of headwall expose 5/10/2013 Same as last inspection 5/13/2013 SBFCA project recommends removal. 1/7/2013 Same as last inspection 5/20/2014 Same as last inspection 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 24-inch CM drainpipe through the levee, 17.5 feet below the crown. Concrete headwall at landward toe. Flap gate on waterward end covered with dirt. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 476+60). (USACE O&M Manual, 1957) FS Date: 12/31/2014					

No Photos

LM Start	11.08	Rating **	M	Issue No.	15
LM End	11.08	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.431591 °	39.431591 °
				-121.645477 °	-121.645477 °
DWR ID	DWR_MA0007_01_s_2013_15				
Action/Comments					
Building Inspector Comments: Building appears to be abandoned.					

Photo 1 of 1 : SP_2015_MA0007_200_15_20150401_00002.jpg



L/S levee toe- Abandoned building.

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	11.17	Rating **	M	Issue No.	415
LM End	11.17	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.430540 °	39.430540 °
				-121.645118 °	-121.645118 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42815 DS_ID:16941 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: waterward side-missing top cover of the CMP riser; debris inside CMP riser; wheel handle missing from slide gate. Unable to determine condition of slide gate face. landward side-crossing not visible. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0330 no issues reported 5/10/2013 Top cover has fallen down inside standpipe and may prevent gate from fully closing. Wheel to operate gate still missing 5/13/2013 SBFCA project recommends removal 1/7/2013 Same as last inspection 5/20/2014 Same as last inspection 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch reinforced concrete encased CM irrigation pipe through the levee, 21.0 feet below the crown. Slide gate in 36-inch CM pipe riser on the waterward slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 490+50). (USACE O&M Manual, 1957) FS Date: 12/31/2014					

No Photos

LM Start	11.24	Rating **	M	Issue No.	416
LM End	11.24	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.431546 °	39.431546 °
				-121.645474 °	-121.645474 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42817 DS_ID:16939 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: flash boards missing on LS. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0332 no issues reported 5/10/2013 Same as last inspection. Talking with farmer he said the pipe may be getting removed 5/13/2013 SBFCA project recommends relacing in accordance with title 23 1/7/2013 Same as last inspection 5/20/2014 Same as last inspection 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee. 18.9 feet below the crown. Flap gate on the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 494+50). (USACE O&M Manual, 1957) FS Date: 12/31/2014					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	11.28	Rating **	M	Issue No.	417
LM End	11.28	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.432143 °	39.432143 °
				-121.645516 °	-121.645516 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42818 DS_ID:16938 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: burrow activity near headwall on landward side; scour near concrete apron and below apron; This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0336 no issues reported 5/10/2013 Same as last inspection 5/13/2013 SBFCA project recommends relacing in accordance with title 231/7/2013 Same as last inspection 5/20/2014 Same as last inspection 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee, 15.8 feet below the crown. Concrete headwall at both toes. Flap gate on the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 496+20). (USACE O&M Manual, 1957) FS Date: 12/31/2014					

No Photos

LM Start	11.39	Rating **	M	Issue No.	418
LM End	11.39	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.433674 °	39.433674 °
				-121.645591 °	-121.645591 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42819 DS_ID:16937 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned pipe-need to properly abandon structure; CMP riser cover missing on WS; WS pipe filled with concrete; LS crossing not visible 5/10/2013 Same as last inspection 5/13/2013 SBFCA project recommends removal 1/7/2013 Same as last inspection 5/20/2014 Same as last inspection 12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 24-inch reinforced concrete encased CM irrigation pipe through the levee, 19.5 feet below the crown. Concrete headwall at the landward toe. Slide gate in 36-inch CM riser on the waterward slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 502+20). (USACE O&M Manual, 1957) FS Date: 12/31/2014					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0007

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	05/05/2015 05/05/2015	Michael Pitta

LM Start	11.46	Rating **	C	Issue No.	43
LM End	11.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.437119 °	39.437949 °
				-121.645860 °	-121.646280 °
DWR ID	DWR_MA0007_01_s_2012_43				
Action/Comments					
Landscaping					

No Photos

LM Start	11.52	Rating **	M	Issue No.	419
LM End	11.52	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.435497 °	39.435497 °
				-121.645712 °	-121.645712 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42820 DS_ID:16936 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Non-fuctional crossing landward inlet buried; waterward side-debris in CMP riser, riser missing lid; This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0344 for pipes filled > 50 % with soil/10/2013 Same as last inspection. LS inlet excavated but more than 50% still covered by soil/13/2013 SBFCA project recommends removal1/7/2013 Same as last inspectio5/20/2014 Same as last inspection12/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee, 16.2 feet below the crown. Concrete headwall at both toes. Flap gate on the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 508+40). (USACE O&M Manual, 1957) FS Date: 12/31/2014					

No Photos

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