

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2016 Levee Inspection Results

Reclamation District No. 2091 Chase

	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 2016 Levee Inspection Results

Reclamation District No. 2091 Chase

Waterway		Bank	Unit Miles
Unit No. 01 San Joaquin River		Right	7.46

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/26/2016 - 4/26/2016			
DWR Inspector	Richard Willoughby			
Accompanied By	Mike Alves RD 2091			

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 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/26/2016 04/26/2016	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals		o	o	o
DWR ID	DWR_RD2091_01_s_2013_2				
Comment Code					
Inspector Comment					
The LMA has copy of O & M manual on file at district office.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment		o	o	o
DWR ID	DWR_RD2091_01_s_2013_4				
Comment Code					
Inspector Comment					
The LMA maintains adequate flood fight supplies and equipment.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training		o	o	o
DWR ID	DWR_RD2091_01_s_2013_5				
Comment Code					
Inspector Comment					
The LMA maintains a good working knowledge of flood response activities.					

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 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/26/2016 04/26/2016	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	13
LM End	7.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.541438 °		°
			-121.092770 °		°
DWR ID	DWR_RD2091_01_s_2016_13				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	14
LM End	7.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.541438 °		°
			-121.092770 °		°
DWR ID	DWR_RD2091_01_s_2016_14				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

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 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/26/2016 04/26/2016	Richard Willoughby

LM Start	0.08	Rating **	M	Issue No.	19
LM End	0.08	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.541970 °	37.541970 °
				-121.093980 °	-121.093980 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43207 DS_ID:23155 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through levee 7.2 feet below crown. Slide gate in 36-inch corrugated metal pipe riser on the waterward slope. Originally included in the 1961 O&M manual. As built drawings available, Drawing # 07-04-1555: 1555/17 & 1555/55, 906+85. FS Date: 1/29/2015 2:26:31 PM					

Photo 1 of 2 : UCIP_SP_2016_43207_38148.jpg



Slide gate in 36-inch CMP riser on WS toe.

LM Start	0.08	Rating **	M	Issue No.	19 (cont)
LM End	0.08	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_43207_38147.jpg



Slide gate in 36-inch CMP riser on WS 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 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/26/2016 04/26/2016	Richard Willoughby

LM Start	0.10	Rating **	U	Issue No.	17
LM End	0.10	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.542030 °	37.542030 °
				-121.094370 °	-121.094370 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43204 DS_ID:23156 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe open on WS and slide gate has been removed. Appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through levee 9.0 feet below crown. Slide gate in corrugated metal pipe riser on the waterward slope. Originally included in the 1961 O&M manual. As built drawings available, Drawing # 07-04-1555: 1555/17 & 1555/55, 907+55. FS Date: 1/29/2015 2:25:12 PM					

Photo 1 of 2 : UCIP_SP_2016_43204_38150.jpg



36-inch CMP riser on WS slope.

LM Start	0.10	Rating **	U	Issue No.	17 (cont)
LM End	0.10	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_43204_38149.jpg



Slide gate missing from open end of pipe at WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/26/2016 04/26/2016	Richard Willoughby

LM Start	0.23	Rating **	U	Issue No.	15
LM End	0.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.541550 °	37.541550 °
				-121.096742 °	-121.096742 °
DWR ID	DWR_RD2091_01_s_2016_15				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Caving on landward shoulder possible collapsed pipe. Caving is 34 feet long over one inch depth.					

LM Start	0.23	Rating **	U	Issue No.	15 (cont)
LM End	0.23	Issue Type +	Ma	Location *	LS

LM Start	0.23	Rating **	U	Issue No.	15 (cont)
LM End	0.23	Issue Type +	Ma	Location *	LS

Photo 1 of 4 : SP_2016_RD2091_318_15_20160427_00022.jpg



Looking west at dip on landward levee shoulder.

Photo 2 of 4 : SP_2016_RD2091_318_15_20160427_00020.jpg



Looking southeast at depression along landward shoulder.

Photo 3 of 4 : SP_2016_RD2091_318_15_20160427_00021.jpg



Looking south at depression along landward shoulder.

* 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 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/26/2016 04/26/2016	Richard Willoughby

LM Start	0.23	Rating **	U	Issue No.	15 (cont)
LM End	0.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.541550 °	37.541550 °
				-121.096742 °	-121.096742 °
DWR ID	DWR_RD2091_01_s_2016_15				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Caving on landward shoulder possible collapsed pipe. Caving is 34 feet long over one inch depth.					

Photo 4 of 4 : SP_2016_RD2091_318_15_20160427_00023.jpg



Looking northwest at depression along landward shoulder.

LM Start	0.24	Rating **	U	Issue No.	18
LM End	0.24	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.541564 °	37.541564 °
				-121.096792 °	-121.096792 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43205 DS_ID:23158 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Flap gate has fallen off at WS toe. Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through levee 10.0 feet below crown. Flap gate on the waterward end. Drain opening 15 feet off landward toe. Originally included in the 1961 O&M manual. As built drawings available, Drawing # 07-04-1555: 1555/17 & 1555/55, 915+00. FS Date: 1/29/2015 2:25:43 PM					

Photo 1 of 2 : UCIP_SP_2016_43205_38156.jpg



Pipe visible in canal on WS 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 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/26/2016 04/26/2016	Richard Willoughby

LM Start	0.24	Rating **	U	Issue No.	18 (cont)
LM End	0.24	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.541564 °	37.541564 °
				-121.096792 °	-121.096792 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43205 DS_ID:23158 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Flap gate has fallen off at WS toe. Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through levee 10.0 feet below crown. Flap gate on the waterward end. Drain opening 15 feet off landward toe. Originally included in the 1961 O&M manual. As built drawings available, Drawing # 07-04-1555: 1555/17 & 1555/55, 915+00. FS Date: 1/29/2015 2:25:43 PM					

Photo 2 of 2 : UCIP_SP_2016_43205_38155.jpg



Flapgate has fallen off at WS toe.

LM Start	0.25	Rating **	M	Issue No.	16
LM End	0.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.541492 °	37.541408 °
				-121.097052 °	-121.097453 °
DWR ID	DWR_RD2091_01_s_2016_16				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Several fringer erosions and possible rodent holes along landward shoulder and slope.					

Photo 1 of 5 : SP_2016_RD2091_318_16_20160427_00026.jpg



Looking east at fringer erosion on landward slope.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/26/2016 04/26/2016	Richard Willoughby

LM Start	0.25	Rating **	M	Issue No.	16 (cont)
LM End	0.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.541492°	37.541408°
				-121.097052°	-121.097453°
DWR ID	DWR_RD2091_01_s_2016_16				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Several fringer erosions and possible rodent holes along landward shoulder and slope.					

LM Start	0.25	Rating **	M	Issue No.	16 (cont)
LM End	0.28	Issue Type +	Ma	Location *	LS

LM Start	0.25	Rating **	M	Issue No.	16 (cont)
LM End	0.28	Issue Type +	Ma	Location *	LS

Photo 2 of 5 : SP_2016_RD2091_318_16_20160427_00024.jpg



Looking east at fringer erosion and possible rodent hole on landward slope.

Photo 3 of 5 : SP_2016_RD2091_318_16_20160427_00027.jpg



Looking east at fringer erosion on landward slope.

Photo 4 of 5 : SP_2016_RD2091_318_16_20160427_00025.jpg



Looking east at fringer erosion and possible rodent hole on landward slope.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/26/2016 04/26/2016	Richard Willoughby

LM Start	0.25	Rating **	M	Issue No.	16 (cont)
LM End	0.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.541492°	37.541408°
				-121.097052°	-121.097453°
DWR ID	DWR_RD2091_01_s_2016_16				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Several fringer erosions and possible rodent holes along landward shoulder and slope.					

Photo 5 of 5 : SP_2016_RD2091_318_16_20160427_00028.jpg



Looking east at erosion and possible rodent hole on landward shoulder.

LM Start	0.63	Rating **	U	Issue No.	20
LM End	0.63	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.541220°	37.541220°
				-121.103880°	-121.103880°
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43208 DS_ID:23161 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through levee 12.0 feet below crown. Flap gate on the waterward end. Concrete headwall on WS toe. Originally included in the 1961 O&M manual. FS Date: 1/29/2015 2:27:20 PM					

Photo 1 of 2 : UCIP_SP_2016_43208_38158.jpg



24-inch CMP on concrete headwall with flapgate on WS 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 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/26/2016 04/26/2016	Richard Willoughby

LM Start	0.63	Rating **	U	Issue No.	20 (cont)
LM End	0.63	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.541220 °	37.541220 °
				-121.103880 °	-121.103880 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43208 DS_ID:23161 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through levee 12.0 feet below crown. Flap gate on the waterward end. Concrete headwall on WS toe. Originally included in the 1961 O&M manual. FS Date: 1/29/2015 2:27:20 PM					

Photo 2 of 2 : UCIP_SP_2016_43208_38157.jpg



24-inch CMP on concrete headwall with flapgate on WS toe.

LM Start	4.59	Rating **	M	Issue No.	21
LM End	4.59	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.497390 °	37.497390 °
				-121.080370 °	-121.080370 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43209 DS_ID:23165 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through levee 15.0 feet below crown. Abandoned concrete inlet box on the waterward slope of levee. 6'X5' Concrete distribution box at the landward toe. Originally included in the 1961 O&M manual. FS Date: 1/29/2015 2:27:42 PM					

Photo 1 of 2 : UCIP_SP_2016_43209_38211.jpg



Distribution box on LS 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 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/26/2016 04/26/2016	Richard Willoughby

LM Start	4.59	Rating **	M	Issue No.	21 (cont)
LM End	4.59	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.497390 °	37.497390 °
				-121.080370 °	-121.080370 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43209 DS_ID:23165 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through levee 15.0 feet below crown. Abandoned concrete inlet box on the waterward slope of levee. 6'X5' Concrete distribution box at the landward toe. Originally included in the 1961 O&M manual. FS Date: 1/29/2015 2:27:42 PM					

Photo 2 of 2 : UCIP_SP_2016_43209_38210.jpg



Open CMP pipe through levee at distribution box on LS toe.

LM Start	5.66	Rating **	A/W	Issue No.	11
LM End	5.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.486090 °	37.485839 °
				-121.067612 °	-121.067357 °
DWR ID	DWR_RD2091_01_s_2015_11				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
The LMA has implemented a rodent program. No visible rodents and rodent holes.					

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 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/26/2016 04/26/2016	Richard Willoughby

LM Start	5.92	Rating **	M	Issue No.	12
LM End	5.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.485998 °	37.485998 °	
			-121.063323 °	-121.063323 °	
DWR ID	DWR_RD2091_01_f_2015_12				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD2091_318_12_20160427_00029.jpg



Looking southeast at untrimmed tree on landward slope.

LM Start	6.20	Rating **	M	Issue No.	22
LM End	6.20	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.486060 °	37.486060 °	
			-121.058790 °	-121.058790 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43221 DS_ID:23166 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: FIELD_STRUCT_DESC: *Removed* 36-inch corrugated metal pipe through levee 15.0 feet below crown. Slide gate in corrugated metal pipe riser on the waterward slope. Concrete distribution box at the landward toe. Slide gate on the landward end. Concrete standpipe on the waterward berm. Pump on pile stream. Originally included in the 1961 O&M manual. Pipe removed under Permit No. 4421. Design drawings available in Permit No. 4421. FS Date: 1/29/2015 2:31:08 PM					

Photo 1 of 2 : UCIP_SP_2016_43221_38215.jpg



Abandoned CMP riser on WS slope.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	04/26/2016 04/26/2016	Richard Willoughby

LM Start	6.20	Rating **	M	Issue No.	22 (cont)
LM End	6.20	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.486060 °	37.486060 °
				-121.058790 °	-121.058790 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43221 DS_ID:23166 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: FIELD_STRUCT_DESC: *Removed* 36-inch corrugated metal pipe through levee 15.0 feet below crown. Slide gate in corrugated metal pipe riser on the waterward slope. Concrete distribution box at the landward toe. Slide gate on the landward end. Concrete standpipe on the waterward berm. Pump on pile stream. Originally included in the 1961 O&M manual. Pipe removed under Permit No. 4421. Design drawings available in Permit No. 4421. FS Date: 1/29/2015 2:31:08 PM					

Photo 2 of 2 : UCIP_SP_2016_43221_38214.jpg



Concrete distribution box on LS 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**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Reclamation District No. 2091 Chase

Waterway		Bank	Unit Miles	
Unit No. 02 San Joaquin River			0.05	
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	-			
DWR Inspector	Richard Willoughby			
Accompanied By				

Summer & Winter Inspections

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

DWR must be informed on the:

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

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.05		Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	4
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.482230 °		°
			-121.051485 °		°
DWR ID	DWR_RD2091_02_s_2016_4				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD2091_319_4_20160523_00005.jpg



Looking west at landside and waterside slopes.

LM Start	0.00	Rating **	M	Issue No.	5
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.482230 °		°
			-121.051485 °		°
DWR ID	DWR_RD2091_02_s_2016_5				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD2091_319_5_20160523_00006.jpg



Looking south at LM 0.30 landside and waterside slopes.

* 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 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.05		Richard Willoughby

LM Start	0.02	Rating **	U	Issue No.	6
LM End	0.02	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.482450 °	37.482450 °
				-121.051220 °	-121.051220 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43206 DS_ID:23175 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Flap gate rusted in-place and does not function. In closed position. FIELD_STRUCT_DESC: 24-inch corrugated metal drain pipe through levee 16.4-feet below the crown. Flap gate on the waterward toe. FS Date: 1/29/2015 2:25:56 PM					

Photo 1 of 1 : UCIP_SP_2016_43206_38216.jpg



24-inch CMP with flapgate visible on WS toe.

LM Start	0.03	Rating **	A/W	Issue No.	1
LM End	0.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.482523 °	37.482523 °
				-121.051103 °	-121.051103 °
DWR ID	DWR_RD2091_02_s_2012_1				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

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 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.05		Richard Willoughby

LM Start	0.05	Rating **	A/W	Issue No.	2
LM End	0.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.482815 °	37.482815 °	
			-121.050849 °	-121.050849 °	
DWR ID	DWR_RD2091_02_f_2012_2				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

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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