

**Flood Control Project Maintenance
Levee Inspections**

Fall 2014 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD1602	Overall LMA Rating	Total LMA Miles						
Reclamation District No. 1602 Del Puerto	U	6.24						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	1.06		1.06	16.99%	0.01			
Encroachments	0.01		0.01	0.16%	3.33			
Animal Control	0.28		0.28	4.49%				
Slope Stability	0.04		0.04	0.64%				
Erosion / Bank Caving	0.01		0.01	0.16%				
<i>Interior Drainage & Piping Systems</i>								
Concrete Tilting / Settlement	0.01		0.01	0.16%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.05	0.08		
LMA Totals:	1.41	0.00	1.41	22.60%	3.39	0.08	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2014 Levee Inspection Results

Reclamation District No. 1602 Del Puerto

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

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

*

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

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

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2014 Levee Inspection Results

Reclamation District No. 1602 Del Puerto

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	6.24
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/24/2014 - 04/24/2014		10/24/2014 - 10/24/2014	
DWR Inspector	Pavel Kazi		Pavel Kazi	
Accompanied By	Tony Martinez RD1602			

Summer & Winter Inspections

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

DWR must be informed on the:

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

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	0.00	Rating **	A	Issue No.	39		
LM End	0.00	Issue Type +	Ma	Location *	N/A		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Operations & Maintenance Manuals				°		°
					°		°
DWR ID	DWR_RD1602_01_s_2012_39						
Action/Comments							
Inspector Comments: The LMA has all the O&M manuals.							

No Photos

LM Start	0.00	Rating **	A	Issue No.	77
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				°
					°
DWR ID	DWR_RD1602_01_s_2012_77				
Action/Comments					
Inspector Comments: The LMA has enough flood materials in case of an incident.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	97
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				°
					°
DWR ID	DWR_RD1602_01_s_2012_97				
Action/Comments					
Inspector Comments: The LMA has solid understanding and most of them have flood preparedness training.					

No Photos

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	0.00	Rating **	M	Issue No.	1
LM End	0.11	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.476560 °	37.477295 °
				-121.083862 °	-121.082087 °
DWR ID	DWR_RD1602_01_s_2012_1				
Action/Comments					
Building					
Inspector Comments: Animal pens across levee crown.					

Photo 1 of 1 : FA_2014_RD1602_110_1_20141021_00001.jpg



Looking at animal pens on crown of levee from LM 0.00 to 0.11.

LM Start	0.32	Rating **	A	Issue No.	172
LM End	0.32	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478581 °	37.478581 °
				-121.078811 °	-121.078811 °
DWR ID	DWR_RD1602_01_s_2014_172				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: LMA repaired the rodent hole.					

Photo 1 of 1 : FA_2014_RD1602_110_172_20141021_00087.jpg



The rodent hole was filled with material on the waterside shoulder of the levee looking downstream.

*** 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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	0.58	Rating **	U	Issue No.	2
LM End	0.58	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.480182 °	37.480182 °
				-121.074765 °	-121.074765 °
DWR ID	DWR_RD1602_01_f_2014_2				
Action/Comments					
Inspector Comments: FS_ID:21623					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Open 60-inch CMP riser on WS needs lid as it's depth may be a hazard to the public.					
FIELD_STRUCT_DESC: 16-inch pipe through levee 11.3 feet below crown. Slide gate in 60-inch corrugated metal pipe riser on the waterward side. Concrete inlet 110-feet west of the levee crown. Originally included in 1964 O&M manual.					
FS Date: 10/1/2013 7:57:22 AM					

No Photos

LM Start	0.58	Rating **	M	Issue No.	3
LM End	0.58	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.480176 °	37.480176 °
				-121.074736 °	-121.074736 °
DWR ID	DWR_RD1602_01_f_2014_3				
Action/Comments					
Inspector Comments: FS_ID:22937					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: No permit identified for this crossing.					
FIELD_STRUCT_DESC: Communication line through the levee at an unknown depth.					
FS Date: 10/1/2013					

No Photos

LM Start	0.60	Rating **	C	Issue No.	4
LM End	0.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.479968 °	37.479968 °
				-121.074583 °	-121.074583 °
DWR ID	DWR_RD1602_01_s_2012_4				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: LMA has corrected the issue.					

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
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Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	0.60	Rating **	M	Issue No.	70
LM End	0.72	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.479967 °	37.478514 °
				-121.074582 °	-121.073435 °
DWR ID	DWR_RD1602_01_s_2012_70				
Action/Comments					
Fence					
Inspector Comments: Barbed wire fence along the landward toe.					

Photo 1 of 1 : FA_2014_RD1602_110_70_20141021_00054.jpg



View of barbed wire fence at landward toe looking upstream.

LM Start	0.67	Rating **	A	Issue No.	173
LM End	0.67	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.479072 °	37.479072 °
				-121.073934 °	-121.073934 °
DWR ID	DWR_RD1602_01_s_2014_173				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: LMA grouted the animal burrows.					

Photo 1 of 2 : FA_2014_RD1602_110_173_20141027_00116.jpg



View of the landside shoulder of the levee looking upstream during fall 2014 inspection.

LM Start	0.67	Rating **	A	Issue No.	173 (cont)
LM End	0.67	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_RD1602_110_173_20141021_00088.jpg



The rodent holes were filled with material on the landside shoulder of the levee looking 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 - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	0.69	Rating **	M	Issue No.	26
LM End	0.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478792 °	37.478792 °
				-121.073740 °	-121.073740 °
DWR ID	DWR_RD1602_01_f_2013_26				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 2 : FA_2014_RD1602_110_26_20141027_00117.jpg



Updated picture of the rodent hole on the waterside shoulder of the levee looking upstream during fall 2014 inspection.

LM Start	0.69	Rating **	M	Issue No.	26 (cont)
LM End	0.69	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2014_RD1602_110_26_20141021_00020.jpg



View of the rodent hole on the waterside shoulder of the levee during spring 2014 inspection.

LM Start	0.75	Rating **	C	Issue No.	174
LM End	0.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478263 °	37.478263 °
				-121.072955 °	-121.072955 °
DWR ID	DWR_RD1602_01_s_2014_174				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

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
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Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	0.78	Rating **	U	Issue No.	5
LM End	0.78	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.477993 °	37.477993 °
				-121.072645 °	-121.072645 °
DWR ID	DWR_RD1602_01_f_2014_5				
Action/Comments					
Inspector Comments: FS_ID:21629					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Flap gate blocked from functioning by soil buildup on WS toe. Soil should be cleared.					
FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee 14.4 feet below crown. Concrete "U" headwall on both ends. Slide gate in 6'X7' concrete surge box on the waterward shoulder. Flap gate on the waterward end. Originally included in 1964 O&M manual.					
FS Date: 10/1/2013					

No Photos

LM Start	0.78	Rating **	A/W	Issue No.	72
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			37.477965 °	37.477965 °
				-121.072595 °	-121.072595 °
DWR ID	DWR_RD1602_01_s_2012_72				
Action/Comments					
Inspector Comments: Sediment around the flap gate was cleaned, and the area should be watched for future sediment deposits.					

Photo 1 of 4 : FA_2014_RD1602_110_72_20141027_00118.jpg



View of the flap gate on the waterside of the levee during fall 2014 inspection.

*** 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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	0.78	Rating **	A/W	Issue No.	72 (cont)
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			37.477965 °	37.477965 °
				-121.072595 °	-121.072595 °
DWR ID	DWR_RD1602_01_s_2012_72				
Action/Comments					
Inspector Comments: Sediment around the flap gate was cleaned, and the area should be watched for future sediment deposits.					

Photo 2 of 4 : FA_2014_RD1602_110_72_20141021_00056.jpg



Debris were obstructing the flap gate from closing completely. The picture was taken from toe of waterside of the levee during the fall 2013 inspection.

LM Start	0.78	Rating **	A/W	Issue No.	72 (cont)
LM End	0.78	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : FA_2014_RD1602_110_72_20141021_00057.jpg



Debris and sediments were obstructing the flap gate from closing completely. The picture was taken from toe of waterside of the levee during the fall 2012 inspection.

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	0.78	Rating **	A/W	Issue No.	72 (cont)
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			37.477965 °	37.477965 °
				-121.072595 °	-121.072595 °
DWR ID	DWR_RD1602_01_s_2012_72				
Action/Comments					
Inspector Comments: Sediment around the flap gate was cleaned, and the area should be watched for future sediment deposits.					

Photo 4 of 4 : FA_2014_RD1602_110_72_20141021_00058.jpg



Debris and sediments were obstructing the flap gate. The picture was taken from toe of waterside of the levee looking towards the crown. This picture was taken during the fall 2011 inspection.

LM Start	0.81	Rating **	C	Issue No.	57
LM End	0.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.477844 °	37.477844 °
				-121.072132 °	-121.072132 °
DWR ID	DWR_RD1602_01_s_2012_57				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	0.83	Rating **	M	Issue No.	76
LM End	0.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.477907 °	37.477907 °
				-121.071754 °	-121.071754 °
DWR ID	DWR_RD1602_01_s_2012_76				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 3 : FA_2014_RD1602_110_76_20141021_00061.jpg



Updated picture of the rodent holes on the waterside of the levee looking upstream during spring 2014 inspection.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	0.83	Rating **	M	Issue No.	76 (cont)
LM End	0.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.477907 °	37.477907 °
				-121.071754 °	-121.071754 °
DWR ID	DWR_RD1602_01_s_2012_76				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 2 of 3 : FA_2014_RD1602_110_76_20141021_00062.jpg



Updated picture of the rodent hole on the waterside slope of the levee looking downstream.

LM Start	0.83	Rating **	M	Issue No.	76 (cont)
LM End	0.83	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : FA_2014_RD1602_110_76_20141021_00063.jpg



A rodent hole was found on the waterside of the levee looking downstream.

LM Start	0.95	Rating **	C	Issue No.	175
LM End	0.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478487 °	37.478487 °
				-121.069591 °	-121.069591 °
DWR ID	DWR_RD1602_01_s_2014_175				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	0.95	Rating **	C	Issue No.	47
LM End	0.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478474 °	37.478474 °
				-121.069586 °	-121.069586 °
DWR ID	DWR_RD1602_01_f_2012_47				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	0.99	Rating **	M	Issue No.	36
LM End	0.99	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.478719 °	37.478719 °
				-121.069072 °	-121.069072 °
DWR ID	DWR_RD1602_01_s_2012_36				
Action/Comments					
Ramp					

Photo 1 of 1 : FA_2014_RD1602_110_36_20141021_00025.jpg



View of the ramp on the crown. The picture was taken from crown looking downstream.

*** 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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	1.01	Rating **	U	Issue No.	6
LM End	1.01	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.478816 °	37.478816 °
				-121.068780 °	-121.068780 °
DWR ID	DWR_RD1602_01_f _ 2014_6				
Action/Comments					
Inspector Comments: FS_ID:21639					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Appears abandoned and if so should be done so properly. Flapgate missing.					
FIELD_STRUCT_DESC: 1 of 2: 16-inch pipe through levee 17.0 feet below crown. Pumps on pump platform on the landward side. Siphon breaker in 24-inch CMP risers on the waterward shoulder. Concrete "U" headwall and flap gate on the waterward end. Originally included in 1964 O&M manual.					
FS Date: 10/1/2013					

No Photos

LM Start	1.01	Rating **	U	Issue No.	9
LM End	1.01	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.478817 °	37.478817 °
				-121.068773 °	-121.068773 °
DWR ID	DWR_RD1602_01_f _ 2014_9				
Action/Comments					
Inspector Comments: FS_ID:21642					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Appears abandoned siphon breakers covered in soil and flapgate missing.					
FIELD_STRUCT_DESC: 2 of 2: 16-inch pipe through levee 17.0 feet below crown. Pumps on pump platform on the landward side. Siphon breakers in 24-inch risers on the waterward shoulder. Concrete "U" headwall and flap gate on the waterward end. Originally included in 1964 O&M manual.					
FS Date: 10/1/2013					

No Photos

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	1.02	Rating **	M	Issue No.	10
LM End	1.02	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.478779 °	37.478779 °
				-121.068508 °	-121.068508 °
DWR ID	DWR_RD1602_01_f_2014_10				
Action/Comments					
Inspector Comments: FS_ID:21647					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Headwall on WS toe seperated from pipe. Erosion around concrete headwall and undermined at WS toe. Flapgate missing from WS toe headwall.					
FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee 25.4 feet below crown. Concrete "U" headwalls on both ends. Slide gate in concrete surge box on the waterward slope. 5'X5' concrete box on LS toe. Flap gate on the waterward end. Originally included in 1964 O&M manual.					
FS Date: 10/1/2013					

No Photos

LM Start	1.04	Rating **	M	Issue No.	55
LM End	1.04	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Concrete Tilting / Settlement			37.478678 °	37.478678 °
				-121.068305 °	-121.068305 °
DWR ID	DWR_RD1602_01_s_2012_55				
Action/Comments					
Inspector Comments: The outlet headwall is tilting away from the pipe rendering the existing flap gate ineffective. Repair gap between pipe and headwall and stabilize headwall to prevent further damage.					

Photo 1 of 2 : FA_2014_RD1602_110_55_20141021_00039.jpg



Additional view of outfall structure at LM 1.04.

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	1.04	Rating **	M	Issue No.	55 (cont)
LM End	1.04	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Concrete Tilting / Settlement			37.478678 °	37.478678 °
				-121.068305 °	-121.068305 °
DWR ID	DWR_RD1602_01_s_2012_55				
Action/Comments					
Inspector Comments: The outlet headwall is tilting away from the pipe rendering the existing flap gate ineffective. Repair gap between pipe and headwall and stabilize headwall to prevent further damage.					

Photo 2 of 2 : FA_2014_RD1602_110_55_20141021_00040.jpg



Separation of outfall structure from the outlet pipe at LM 1.04.

LM Start	1.04	Rating **	C	Issue No.	176
LM End	1.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478652 °	37.478652 °
				-121.068114 °	-121.068114 °
DWR ID	DWR_RD1602_01_s_2014_176				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	1.06	Rating **	C	Issue No.	28
LM End	1.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478577 °	37.478577 °
				-121.067920 °	-121.067920 °
DWR ID	DWR_RD1602_01_f_2013_28				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	1.07	Rating **	M	Issue No.	37
LM End	1.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.478567 °	37.478567 °
				-121.067847 °	-121.067847 °
DWR ID	DWR_RD1602_01_s_2012_37				
Action/Comments					
Repair slope instability. Inspector Comments: Small amount of slumping at waterside toe of the levee.					

Photo 1 of 3 : FA_2014_RD1602_110_37_20141021_00026.jpg



Small amount of slumping at water toe.

LM Start	1.07	Rating **	M	Issue No.	37 (cont)
LM End	1.07	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA_2014_RD1602_110_37_20141021_00027.jpg



Updated picture of the depression at the waterside toe of the levee. The picture was taken from the crown of the levee looking upstream.

LM Start	1.07	Rating **	M	Issue No.	37 (cont)
LM End	1.07	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : FA_2014_RD1602_110_37_20141021_00028.jpg



Depression at the waterside slope of the levee during Spring 2011 inspection.

*** 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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	1.10	Rating **	A	Issue No.	8
LM End	1.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478454 °	37.478454 °
				-121.067209 °	-121.067209 °
DWR ID	DWR_RD1602_01_s_2012_8				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: LMA fixed the holes on the waterside slopes of the levee.					

Photo 1 of 2 : FA_2014_RD1602_110_8_20141027_00119.jpg



LMA grouted the rodent holes on the waterside slope of the levee looking upstream. The picture was taken during fall 2014 inspection.

LM Start	1.10	Rating **	A	Issue No.	8 (cont)
LM End	1.10	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2014_RD1602_110_8_20141021_00005.jpg



Rodent hole was found on the waterside of the levee. The picture was taken from waterside looking upstream.

LM Start	1.11	Rating **	M	Issue No.	11
LM End	1.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478371 °	37.478371 °
				-121.066793 °	-121.066793 °
DWR ID	DWR_RD1602_01_s_2013_11				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 2 : FA_2014_RD1602_110_11_20141021_00006.jpg



Rodent holes were found on the waterside slope of the levee looking downstream.

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	1.11	Rating **	M	Issue No.	11 (cont)
LM End	1.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478371 °	37.478371 °
				-121.066793 °	-121.066793 °
DWR ID	DWR_RD1602_01_s_2013_11				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 2 of 2 : FA_2014_RD1602_110_11_20141021_00007.jpg



A rodent hole was found on the waterside toe of the levee looking downstream.

LM Start	1.12	Rating **	M	Issue No.	56
LM End	1.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478372 °	37.478372 °
				-121.066797 °	-121.066797 °
DWR ID	DWR_RD1602_01_f_2012_56				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD1602_110_56_20141021_00041.jpg



A rodent hole was found on the waterside toe of the levee looking upstream.

LM Start	1.13	Rating **	C	Issue No.	7
LM End	1.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478331 °	37.478331 °
				-121.066705 °	-121.066705 °
DWR ID	DWR_RD1602_01_s_2012_7				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	1.15	Rating **	M	Issue No.	65
LM End	1.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478285 °	37.478285 °
				-121.066299 °	-121.066299 °
DWR ID	DWR_RD1602_01_f_2012_65				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 2 : FA_2014_RD1602_110_65_20141021_00049.jpg



Updated picture of rodent hole on the waterside slope of the levee looking upstream during fall 2013 inspection.

Photo 2 of 2 : FA_2014_RD1602_110_65_20141021_00050.jpg



Rodent holes were found on the waterside toe of the levee. The picture was taken from toe of the levee looking towards the crown.

LM Start	1.16	Rating **	C	Issue No.	12
LM End	1.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478256 °	37.478256 °
				-121.065898 °	-121.065898 °
DWR ID	DWR_RD1602_01_s_2013_12				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	1.17	Rating **	C	Issue No.	78
LM End	1.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478267 °	37.478267 °
				-121.065895 °	-121.065895 °
DWR ID	DWR_RD1602_01_s_2012_78				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	1.19	Rating **	M	Issue No.	79
LM End	1.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478324 °	37.478324 °
				-121.065444 °	-121.065444 °
DWR ID	DWR_RD1602_01_s_2012_79				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 2 : FA_2014_RD1602_110_79_20141021_00065.jpg



Updated picture of the rodent holes on the waterside toe of the levee during spring 2014 inspection.

Photo 2 of 2 : FA_2014_RD1602_110_79_20141021_00066.jpg



A rodent hole was found on the waterside toe of the levee looking downstream.

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	1.21	Rating **	C	Issue No.	80
LM End	1.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478391 °	37.478391 °
				-121.065111 °	-121.065111 °
DWR ID	DWR_RD1602_01_s_2012_80				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	1.23	Rating **	C	Issue No.	98
LM End	1.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478522 °	37.478522 °
				-121.064723 °	-121.064723 °
DWR ID	DWR_RD1602_01_f_2012_98				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	1.27	Rating **	C	Issue No.	30
LM End	1.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478761 °	37.478761 °
				-121.064313 °	-121.064313 °
DWR ID	DWR_RD1602_01_f_2013_30				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	1.46	Rating **	M	Issue No.	31
LM End	1.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478938 °	37.478938 °
				-121.061063 °	-121.061063 °
DWR ID	DWR_RD1602_01_f_2014_31				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD1602_110_31_20141027_00120.jpg



View of the rodent hole on the waterside slope of the levee looking downstream.

LM Start	1.53	Rating **	C	Issue No.	177
LM End	1.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478504 °	37.478504 °
				-121.060005 °	-121.060005 °
DWR ID	DWR_RD1602_01_s_2014_177				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	1.57	Rating **	C	Issue No.	178
LM End	1.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.478221 °	37.478221 °
				-121.059483 °	-121.059483 °
DWR ID	DWR_RD1602_01_s_2014_178				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	1.62	Rating **	M	Issue No.	43
LM End	2.29	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.477663 °	37.470264 °
				-121.058716 °	-121.054377 °
DWR ID	DWR_RD1602_01_s_2012_43				
Action/Comments					
Fence					
Inspector Comments: Fence at the landside toe of the levee.					

Photo 1 of 1 : FA_2014_RD1602_110_43_20141021_00030.jpg



View of the fence on the landside toe of the levee. The picture was taken from crown looking upstream.

LM Start	1.68	Rating **	C	Issue No.	103
LM End	1.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.476880 °	37.476880 °
				-121.058329 °	-121.058329 °
DWR ID	DWR_RD1602_01_f_2012_103				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	1.69	Rating **	M	Issue No.	18
LM End	1.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.476576 °	37.476576 °
				-121.058174 °	-121.058174 °
DWR ID	DWR_RD1602_01_s_2013_18				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD1602_110_18_20141021_00016.jpg



A rodent hole was found on the waterside toe of the levee looking downstream.

* 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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Reclamation District No. 1602 Del Puerto

Reclamation District No. 1602 Del Puerto

Reclamation District No. 1602 Del Puerto

No Photos

Animal holes were found on the waterside shoulder of the levee looking upstream.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	2.98	Rating **	C	Issue No.	182
LM End	2.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.465132 °	37.465132 °
				-121.044529 °	-121.044529 °
DWR ID	DWR_RD1602_01_s_2014_182				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	3.30	Rating **	U	Issue No.	14
LM End	3.30	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.461507 °	37.461507 °
				-121.041609 °	-121.041609 °
DWR ID	DWR_RD1602_01_f_2014_14				
Action/Comments					
Inspector Comments: FS_ID:21652					
EP_NO: 8193					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Appears abandoned, and if so should be done so properly. No handle on slide gate, no cover on CMP standpipe on WS shoulder.					
FIELD_STRUCT_DESC: 16-inch pipe through levee 11.5 feet below crown. Slide gate in 60-inch corrugated metal pipe riser on the waterward slope. Discharge into concrete-lined ditch on the landward side (Permit No. 8193, 1964). Originally included in 1964 O&M manual.					
FS Date: 10/1/2013					

No Photos

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	3.32	Rating **	M	Issue No.	54
LM End	3.49	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.461147 °	37.459242 °
				-121.041785 °	-121.043582 °
DWR ID	DWR_RD1602_01_f_2013_54				
Action/Comments					
Ditch Inspector Comments: Concrete lined ditch on the landside toe of the levee.					

Photo 1 of 1 : FA_2014_RD1602_110_54_20141021_00038.jpg



A concrete lined ditch was found on the landside toe of the levee looking upstream.

LM Start	3.32	Rating **	M	Issue No.	40
LM End	3.32	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.461140 °	37.461140 °
				-121.041785 °	-121.041785 °
DWR ID	DWR_RD1602_01_f_2014_40				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	3.39	Rating **	M	Issue No.	50
LM End	3.56	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.460327 °	37.458373 °
				-121.042497 °	-121.044081 °
DWR ID	DWR_RD1602_01_s_2012_50				
Action/Comments					
Ditch					
Inspector Comments: A ditch is located on waterside toe of the levee.					

Photo 1 of 1 : FA_2014_RD1602_110_50_20141021_00034.jpg



A ditch was located on the waterside toe of the levee. The picture was taken from the crown looking 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 - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	3.47	Rating **	C	Issue No.	93
LM End	3.47	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.459511 °	37.459511 °
				-121.043350 °	-121.043350 °
DWR ID	DWR_RD1602_01_s_2012_93				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	3.49	Rating **	C	Issue No.	183
LM End	3.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.459279 °	37.459279 °
				-121.043578 °	-121.043578 °
DWR ID	DWR_RD1602_01_s_2014_183				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	3.52	Rating **	M	Issue No.	106
LM End	3.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.458810 °	37.458810 °
				-121.043850 °	-121.043850 °
DWR ID	DWR_RD1602_01_f_2012_106				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD1602_110_106_20141021_00081.jpg



Rodent holes were found on the waterside slope of the levee looking downstream.

*** 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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	3.53	Rating **	A	Issue No.	107
LM End	3.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.458762 °	37.458762 °
				-121.043875 °	-121.043875 °
DWR ID	DWR_RD1602_01_f_2012_107				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: LMA fixed the issue.					

Photo 1 of 3 : FA_2014_RD1602_110_107_20141027_00122.jpg



LMA repaired the rodent holes on the waterside slope of the levee looking upstream during fall 2014 inspection.

LM Start	3.53	Rating **	A	Issue No.	107 (cont)
LM End	3.53	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA_2014_RD1602_110_107_20141021_00082.jpg



Updated picture of rodent hole on the waterside shoulder of the levee looking upstream.

LM Start	3.53	Rating **	A	Issue No.	107 (cont)
LM End	3.53	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : FA_2014_RD1602_110_107_20141021_00083.jpg



A rodent hole was found on the waterside shoulder of the levee looking upstream.

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	3.54	Rating **	C	Issue No.	25
LM End	3.54	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.458139 °	37.458139 °
				-121.044225 °	-121.044225 °
DWR ID	DWR_RD1602_01_s_2013_25				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	3.64	Rating **	C	Issue No.	184
LM End	3.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.457282 °	37.457282 °
				-121.044671 °	-121.044671 °
DWR ID	DWR_RD1602_01_s_2014_184				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	3.64	Rating **	C	Issue No.	185
LM End	3.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.457206 °	37.457206 °
				-121.044692 °	-121.044692 °
DWR ID	DWR_RD1602_01_s_2014_185				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	3.67	Rating **	C	Issue No.	108
LM End	3.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.456775 °	37.456775 °
				-121.044704 °	-121.044704 °
DWR ID	DWR_RD1602_01_f_2012_108				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	3.71	Rating **	C	Issue No.	186
LM End	3.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.456304 °	37.456304 °
				-121.044242 °	-121.044242 °
DWR ID	DWR_RD1602_01_s_2014_186				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: LMA fixed the issue.					

No Photos

LM Start	3.75	Rating **	C	Issue No.	187
LM End	3.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.455828 °	37.455828 °
				-121.043974 °	-121.043974 °
DWR ID	DWR_RD1602_01_s_2014_187				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	3.77	Rating **	C	Issue No.	188
LM End	3.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.455671 °	37.455671 °
				-121.043898 °	-121.043898 °
DWR ID	DWR_RD1602_01_s_2014_188				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	3.80	Rating **	C	Issue No.	83
LM End	3.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.455238 °	37.455238 °
				-121.043635 °	-121.043635 °
DWR ID	DWR_RD1602_01_s_2012_83				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	3.83	Rating **	M	Issue No.	15
LM End	3.83	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.454872 °	37.454872 °
				-121.043370 °	-121.043370 °
DWR ID	DWR_RD1602_01_s_2012_15				
Action/Comments					
Garbage					

Photo 1 of 2 : FA_2014_RD1602_110_15_20141021_00010.jpg



Debris was located on the landside of the levee. The picture was taken from the crown looking 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 - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	3.83	Rating **	M	Issue No.	15 (cont)
LM End	3.83	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.454872 °	37.454872 °
				-121.043370 °	-121.043370 °
DWR ID	DWR_RD1602_01_s_2012_15				
Action/Comments					
Garbage					

Photo 2 of 2 : FA_2014_RD1602_110_15_20141021_00011.jpg



Garbage was found on the landside of the levee. The picture was taken from the crown looking upstream.

LM Start	3.85	Rating **	M	Issue No.	42
LM End	3.85	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.454574 °	37.454574 °
				-121.043142 °	-121.043142 °
DWR ID	DWR_RD1602_01_s_2012_42				
Action/Comments					
Landscaping					

Photo 1 of 1 : FA_2014_RD1602_110_42_20141021_00029.jpg



Remove landscaping from within 10' of landside toe.

LM Start	3.89	Rating **	U	Issue No.	19
LM End	3.89	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.454080 °	37.454080 °
				-121.042758 °	-121.042758 °
DWR ID	DWR_RD1602_01_f_2014_19				
Action/Comments					
Inspector Comments: FS_ID:21656					
EP_NO: 7796					
Repair Type: Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Gasline needs sign markers at levee.					
FIELD_STRUCT_DESC: 12.75-inch gas line crossing through levee 3.0					
feet below crown (Permit No. 7796, 1972). Originally included in the					
1964 O&M manual.					
FS Date: 10/1/2013					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1602 Del Puerto

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	3.97	Rating **	M	Issue No.	63
LM End	4.07	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.452983 °	37.451866 °
				-121.042301 °	-121.041206 °
DWR ID	DWR_RD1602_01_s _ 2012_63				
Action/Comments					
Fence					

Photo 1 of 1 : FA_2014_RD1602_110_63_20141021_00048.jpg



View of a barbed wire fence on the landward slope looking upstream.

LM Start	3.99	Rating **	C	Issue No.	16
LM End	3.99	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.452805 °	37.452805 °
				-121.041769 °	-121.041769 °
DWR ID	DWR_RD1602_01_s _ 2012_16				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: LMA fixed the issue.					

No Photos

LM Start	4.00	Rating **	C	Issue No.	95
LM End	4.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.452820 °	37.452820 °
				-121.041776 °	-121.041776 °
DWR ID	DWR_RD1602_01_s _ 2012_95				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	4.05	Rating **	C	Issue No.	68
LM End	4.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.452207 °	37.452207 °
				-121.041350 °	-121.041350 °
DWR ID	DWR_RD1602_01_f_2013_68				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	4.11	Rating **	C	Issue No.	189
LM End	4.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.451541 °	37.451541 °
				-121.040688 °	-121.040688 °
DWR ID	DWR_RD1602_01_s_2014_189				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	4.11	Rating **	C	Issue No.	51
LM End	4.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.451520 °	37.451520 °
				-121.040699 °	-121.040699 °
DWR ID	DWR_RD1602_01_f_2012_51				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

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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Levee Inspection Report By Mile - Fall 2014

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	4.13	Rating **	M	Issue No.	41
LM End	4.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.451344 °	37.451344 °
				-121.040415 °	-121.040415 °
DWR ID	DWR_RD1602_01_f_2014_41				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

A photograph showing a white pickup truck parked on a dirt ridge. In the foreground, a large, dark, circular animal burrow is visible in the dry, brown soil. The background shows some trees and a clear sky. A date stamp '10/24/2014' is visible in the bottom right corner of the image.

LM Start	4.15	Rating **	M	Issue No.	17					
LM End	4.15	Issue Type +	Ma	Location *	WS					
Category	Earthen Levee			GPS Latitude/Longitude						
				Start	End					
Item	Animal Control			37.451051 °	37.451051 °					
				-121.040109 °	-121.040109 °					
DWR ID	DWR_RD1602_01_s _2012_17									
Action/Comments										
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.										

LM Start	4.22	Rating **	M	Issue No.	190					
LM End	4.22	Issue Type +	Ma	Location *	WS					
Category	Earthen Levee			GPS Latitude/Longitude						
				Start	End					
Item	Animal Control			37.450241 °	37.450241 °					
				-121.039421 °	-121.039421 °					
DWR ID	DWR_RD1602_01_s_2014_190									
Action/Comments										
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.										

A photograph showing a dirt mound with sparse green vegetation. A small, dark hole is visible in the foreground. In the background, the lower legs and feet of a person wearing blue jeans and dark shoes are visible. A wooden stick or pole lies on the ground to the right. The date "04/29/2014" is printed in orange in the bottom right corner.

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	4.22	Rating **	M	Issue No.	44
LM End	4.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.450195 °	37.450195 °
				-121.039406 °	-121.039406 °
DWR ID	DWR_RD1602_01_f_2014_44				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD1602_110_44_20141027_00124.jpg



A rodent hole was found on the landside shoulder of the levee looking upstream.

LM Start	4.22	Rating **	M	Issue No.	46
LM End	4.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.450195 °	37.450195 °
				-121.039406 °	-121.039406 °
DWR ID	DWR_RD1602_01_f_2014_46				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD1602_110_46_20141027_00125.jpg



View of the rodent holes on the waterside slope of the levee. The picture was taken from the toe of the levee during fall 2014 inspection.

LM Start	4.23	Rating **	C	Issue No.	53
LM End	4.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.450142 °	37.450142 °
				-121.039397 °	-121.039397 °
DWR ID	DWR_RD1602_01_s_2012_53				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	4.32	Rating **	M	Issue No.	191
LM End	4.32	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.448987 °	37.448987 °
				-121.038574 °	-121.038574 °
DWR ID	DWR_RD1602_01_s_2014_191				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD1602_110_191_20141021_00099.jpg



A rodent hole was found on the waterside toe of the levee looking downstream.

LM Start	4.35	Rating **	C	Issue No.	193
LM End	4.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.448473 °	37.448473 °
				-121.038264 °	-121.038264 °
DWR ID	DWR_RD1602_01_s_2014_193				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	4.35	Rating **	M	Issue No.	192
LM End	4.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.448474 °	37.448474 °
				-121.038265 °	-121.038265 °
DWR ID	DWR_RD1602_01_s_2014_192				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	4.37	Rating **	M	Issue No.	52
LM End	4.37	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.448327 °	37.448327 °
				-121.038192 °	-121.038192 °
DWR ID	DWR_RD1602_01_f_2012_52				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD1602_110_52_20141021_00036.jpg



A rodent hole was found on the waterside toe of the levee looking downstream.

LM Start	4.39	Rating **	M	Issue No.	109
LM End	4.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.448076 °	37.448076 °
				-121.038037 °	-121.038037 °
DWR ID	DWR_RD1602_01_f_2012_109				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 2 : FA_2014_RD1602_110_109_20141021_00085.jpg



Updated pictures of rodent holes were found on the waterside toe of the levee looking upstream.

LM Start	4.39	Rating **	M	Issue No.	109 (cont)
LM End	4.39	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2014_RD1602_110_109_20141021_00086.jpg



A rodent hole was found on the waterside toe of the levee looking downstream.

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	4.42	Rating **	C	Issue No.	194
LM End	4.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.447484 °	37.447484 °
				-121.037667 °	-121.037667 °
DWR ID	DWR_RD1602_01_s_2014_194				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	4.42	Rating **	C	Issue No.	195
LM End	4.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.447484 °	37.447484 °
				-121.037667 °	-121.037667 °
DWR ID	DWR_RD1602_01_s_2014_195				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	4.45	Rating **	M	Issue No.	67
LM End	4.92	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.447213 °	37.441014 °
				-121.037665 °	-121.036932 °
DWR ID	DWR_RD1602_01_s_2012_67				
Action/Comments					
Fence					

Photo 1 of 1 : FA_2014_RD1602_110_67_20141021_00052.jpg



View of the fence on the landside toe of the levee. The picture was taken from the crown looking upstream.

*** 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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	4.46	Rating **	M	Issue No.	48
LM End	4.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.447098 °	37.447098 °
				-121.037724 °	-121.037724 °
DWR ID	DWR_RD1602_01_f_2014_48				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD1602_110_48_20141027_00126.jpg



View of a rodent hole on the waterside slope of the levee looking from the toe.

LM Start	4.50	Rating **	M	Issue No.	64
LM End	4.66	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.446485 °	37.444290 °
				-121.038037 °	-121.037953 °
DWR ID	DWR_RD1602_01_s_2012_64				
Action/Comments					
Ditch					

Photo 1 of 1 : FA_2014_RD1602_110_64_20141027_00127.jpg



View of a ditch on the landside toe of the levee looking upstream.

*** 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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	4.51	Rating **	U	Issue No.	20
LM End	4.51	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.446545 °	37.446545 °
				-121.037941 °	-121.037941 °
DWR ID	DWR_RD1602_01_f_2014_20				
Action/Comments					
Inspector Comments: FS_ID:21657					
EP_NO: 8195					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Lid missing from 60-inch CMP riser, may be an attractive nuisance or hazard to public.					
FIELD_STRUCT_DESC: 18-inch pipe through levee 10.0 feet below crown. Slide gate in 60-inch corrugated metal pipe riser on the waterward slope. Concrete discharge box on landward end. Pipe is buried across waterward berm to pump on the riverbank approximately 1,000 feet from the levee. (Permit No. 8195, 1972). Originally included in 1964 O&M manual.					
FS Date: 10/1/2013					

No Photos

LM Start	4.63	Rating **	M	Issue No.	196
LM End	4.63	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.444762 °	37.444762 °
				-121.037707 °	-121.037707 °
DWR ID	DWR_RD1602_01_s_2014_196				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD1602_110_196_20141027_00128.jpg



Rodent holes were found on the waterside slope of the levee.

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	4.72	Rating **	C	Issue No.	13
LM End	4.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.443481 °	37.443481 °
				-121.037736 °	-121.037736 °
DWR ID	DWR_RD1602_01_s_2012_13				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	4.78	Rating **	C	Issue No.	197
LM End	4.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.442819 °	37.442819 °
				-121.037214 °	-121.037214 °
DWR ID	DWR_RD1602_01_s_2014_197				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	4.89	Rating **	C	Issue No.	198
LM End	4.89	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.441400 °	37.441400 °
				-121.036706 °	-121.036706 °
DWR ID	DWR_RD1602_01_s_2014_198				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	5.13	Rating **	M	Issue No.	199
LM End	5.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.438165 °	37.438165 °
				-121.037073 °	-121.037073 °
DWR ID	DWR_RD1602_01_s_2014_199				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD1602_110_199_20141021_00102.jpg



Few rodent holes were found on the waterside toe of the levee looking upstream.

LM Start	5.14	Rating **	C	Issue No.	200
LM End	5.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.437950 °	37.437950 °
				-121.037032 °	-121.037032 °
DWR ID	DWR_RD1602_01_s_2014_200				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	5.23	Rating **	U	Issue No.	21
LM End	5.23	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.436748 °	37.436748 °
				-121.036597 °	-121.036597 °
DWR ID	DWR_RD1602_01_f_2014_21				
Action/Comments					
Inspector Comments: FS_ID:21663					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Slide gate won't close completely due to sediment buildup. CMP riser needs cover.					
FIELD_STRUCT_DESC: 24-inch pipe through levee 11.6 feet below crown. Concrete headwall on the landward end. Concrete "U" headwall and flap gate on the waterward end. Slide gate in 60-inch corrugated metal pipe riser on the waterward slope. Originally included in 1964 O&M manual.					
FS Date: 10/1/2013					

No Photos

LM Start	5.29	Rating **	M	Issue No.	202
LM End	5.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.436041 °	37.436041 °
				-121.035868 °	-121.035868 °
DWR ID	DWR_RD1602_01_s_2014_202				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : FA_2014_RD1602_110_202_20141021_00103.jpg



Erosion was found on the landside slope of the levee looking upstream.

LM Start	5.29	Rating **	C	Issue No.	203
LM End	5.29	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.436041 °	37.436041 °
				-121.035867 °	-121.035867 °
DWR ID	DWR_RD1602_01_s_2014_203				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	5.34	Rating **	M	Issue No.	102
LM End	5.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.435533 °	37.435533 °
				-121.035371 °	-121.035371 °
DWR ID	DWR_RD1602_01_s_2012_102				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : FA_2014_RD1602_110_102_20141021_00078.jpg



View of significant damage and erosion to the landward slope looking upstream.

LM Start	5.34	Rating **	M	Issue No.	75
LM End	5.54	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.435555 °	37.433277 °
				-121.035362 °	-121.033318 °
DWR ID	DWR_RD1602_01_s_2012_75				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 2 : FA_2014_RD1602_110_75_20141021_00059.jpg



Vegetation was found on the waterside slope of the levee looking upstream during fall 2013 inspection.

LM Start	5.34	Rating **	M	Issue No.	75 (cont)
LM End	5.34	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2014_RD1602_110_75_20141021_00060.jpg



Overgrown vegetation was found on the waterside slope of the levee looking 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 - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	5.36	Rating **	M	Issue No.	61
LM End	5.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.435236 °	37.433660 °
				-121.035271 °	-121.033838 °
DWR ID	DWR_RD1602_01_s_2012_61				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 2 : FA_2014_RD1602_110_61_20141021_00045.jpg



Updated picture of vegetation on the landside of the levee. The picture was taken from the crown looking upstream during fall 2013 inspection.

LM Start	5.36	Rating **	M	Issue No.	61 (cont)
LM End	5.50	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_RD1602_110_61_20141021_00046.jpg



Vegetation was obstructing the view of the landside of the levee. The picture was taken from the crown looking upstream.

LM Start	5.39	Rating **	M	Issue No.	204
LM End	5.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.434845 °	37.434845 °
				-121.035100 °	-121.035100 °
DWR ID	DWR_RD1602_01_s_2014_204				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD1602_110_204_20141027_00129.jpg



An animal hole was found on the waterside shoulder of the levee looking downstream.

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	5.40	Rating **	M	Issue No.	105
LM End	5.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.434699 °	37.434699 °
				-121.035063 °	-121.035063 °
DWR ID	DWR_RD1602_01_s_2012_105				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : FA_2014_RD1602_110_105_20141021_00080.jpg



View of tilling into the landward slope of the levee looking upstream.
This slope has also been significantly damaged by rodent activity.

LM Start	5.42	Rating **	M	Issue No.	22
LM End	5.49	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.434447 °	37.433791 °
				-121.034865 °	-121.034000 °
DWR ID	DWR_RD1602_01_f_2012_22				
Action/Comments					
Fence					

Photo 1 of 1 : FA_2014_RD1602_110_22_20141021_00017.jpg



A fence was found on the landside toe of the levee looking upstream.

*** 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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	5.50	Rating **	M	Issue No.	23
LM End	5.50	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.433646 °	37.433646 °
				-121.033846 °	-121.033846 °
DWR ID	DWR_RD1602_01_f _ 2014_23				
Action/Comments					
Inspector Comments: FS_ID:21674					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe appears abandoned and if so should be done so properly.					
FIELD_STRUCT_DESC: 12-inch drain pipe through levee 6.9 feet below crown. Flap gate on the waterward end. (Maint. 1602) (could not locate 3/84) Originally included in 1964 O&M manual.					
FS Date: 10/1/2013					

No Photos

LM Start	5.76	Rating **	M	Issue No.	24
LM End	5.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.433003 °	37.433003 °
				-121.029346 °	-121.029346 °
DWR ID	DWR_RD1602_01_f _ 2014_24				
Action/Comments					
Inspector Comments: FS_ID:21681					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Flapgate has minor blockage preventing gate from fully closing.					
FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee 9.0 feet below crown. Slide gate in concrete surge box on the waterward slope. Concrete "U" headwalls on both ends. Flap gate on the waterward end. Originally included in 1964 O&M manual.					
FS Date: 10/1/2013					

No Photos

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

Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	10/24/2014 10/24/2014	Pavel Kazi

LM Start	6.29	Rating **	M	Issue No.	27
LM End	6.29	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.429032 °	37.429032 °
				-121.029867 °	-121.029867 °
DWR ID	DWR_RD1602_01_f_2014_27				
Action/Comments					
Inspector Comments: FS_ID:21683 EP_NO: 8194 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe heavily deteriorated on LS toe. May indicate condition of rest of pipe is bad. Good candidate for video inspection. FIELD_STRUCT_DESC: 18-inch concrete pipe through levee 3.0 feet below crown (Permit No. 8194 1972). Slide gate inside 36-inch concrete standpipe on WS shoulder. Originally included in 1964 O&M manual. FS Date: 10/1/2013					

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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