

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

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

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

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

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2015 Levee Inspection Results

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)				
Date of Inspection	04/02/2015 - 04/02/2015			
DWR Inspector	Pavel Kazi			
Accompanied By	Tony Martinez RD 1602			

Summer & Winter Inspections

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

DWR must be informed on the:

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

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	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		o	o	o
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		o	o	o
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		o	o	o
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 - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	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.					



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

LM Start	0.58	Rating **	U	Issue No.	2
LM End	0.58	Issue Type +	En	Location *	CR
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.480182 °	37.480182 °	
			-121.074765 °	-121.074765 °	
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:21623 DS_ID:20215 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: 10/01/2013					

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 - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	0.58	Rating **	M	Issue No.	3
LM End	0.58	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.480176 °	37.480176 °
				-121.074736 °	-121.074736 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:22937 DS_ID:24681 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: 10/01/2013					

No Photos

LM Start	0.60	Rating **	M	Issue No.	70
LM End	0.71	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 : SP_2015_RD1602_110_70_20150313_00041.jpg



View of barbed wire fence at landward toe looking upstream.

LM Start	0.69	Rating **	C	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.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	0.77	Rating **	A/W	Issue No.	72
LM End	0.77	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 : SP_2015_RD1602_110_72_20150313_00042.jpg



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

LM Start	0.77	Rating **	A/W	Issue No.	72 (cont)
LM End	0.77	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : SP_2015_RD1602_110_72_20150313_00043.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.

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

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	0.77	Rating **	A/W	Issue No.	72 (cont)
LM End	0.77	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 3 of 4 : SP_2015_RD1602_110_72_20150313_00044.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.

LM Start	0.77	Rating **	A/W	Issue No.	72 (cont)
LM End	0.77	Issue Type +	Ma	Location *	WS

Photo 4 of 4 : SP_2015_RD1602_110_72_20150313_00045.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	0.78	Rating **	U	Issue No.	4
LM End	0.78	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.477993 °	37.477993 °
				-121.072645 °	-121.072645 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:43084 DS_ID:20216 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Flap gate blocked from functioning by soil buildup on					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	0.82	Rating **	M	Issue No.	76
LM End	0.82	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.					

LM Start	0.82	Rating **	M	Issue No.	76 (cont)
LM End	0.82	Issue Type +	Ma	Location *	WS

LM Start	0.82	Rating **	M	Issue No.	76 (cont)
LM End	0.82	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP_2015_RD1602_110_76_20150313_00048.jpg



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

Photo 2 of 3 : SP_2015_RD1602_110_76_20150313_00049.jpg



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

Photo 3 of 3 : SP_2015_RD1602_110_76_20150313_00050.jpg



A rodent hole was found on the waterside 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 - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	0.98	Rating **	M	Issue No.	36
LM End	0.98	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 : SP_2015_RD1602_110_36_20150313_00014.jpg



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

LM Start	1.01	Rating **	U	Issue No.	5
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					
Action/Comments					
Inspector Comments: FS_ID:21639 DS_ID:20217 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: 10/01/2013					

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 - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	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			37.478817 °	37.478817 °
				-121.068773 °	-121.068773 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:21642 DS_ID:20219 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: 10/01/2013					

No Photos

LM Start	1.02	Rating **	U	Issue No.	7
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					
Action/Comments					
Inspector Comments: FS_ID:41771 DS_ID:20218 EP_NO: N/A Repair Type: 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: 10/01/2013					

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 - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	1.03	Rating **	M	Issue No.	55
LM End	1.03	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.					

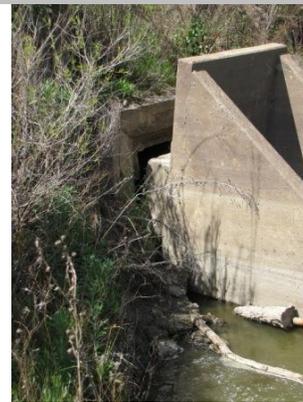
Photo 1 of 3 : SP_2015_RD1602_110_55_20150406_00079.jpg



View of the broken headwall on the waterside of the levee during spring 2015 inspection.

LM Start	1.03	Rating **	M	Issue No.	55 (cont)
LM End	1.03	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP_2015_RD1602_110_55_20150313_00029.jpg



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

LM Start	1.03	Rating **	M	Issue No.	55 (cont)
LM End	1.03	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP_2015_RD1602_110_55_20150313_00028.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 N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	1.05	Rating **	M	Issue No.	37
LM End	1.05	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 : SP_2015_RD1602_110_37_20150313_00015.jpg



Small amount of slumping at water toe.

LM Start	1.05	Rating **	M	Issue No.	37 (cont)
LM End	1.05	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP_2015_RD1602_110_37_20150313_00016.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	1.05	Rating **	M	Issue No.	37 (cont)
LM End	1.05	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP_2015_RD1602_110_37_20150313_00017.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 M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

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 : SP_2015_RD1602_110_11_20150313_00002.jpg



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

LM Start	1.11	Rating **	M	Issue No.	11 (cont)
LM End	1.11	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2015_RD1602_110_11_20150313_00003.jpg



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

LM Start	1.13	Rating **	M	Issue No.	19
LM End	1.13	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.478312 °	37.478312 °	
			-121.066432 °	-121.066432 °	
DWR ID	DWR_RD1602_01_s_2015_19				
Action/Comments					
Pipe Inspector Comments: A PVC pipe was found on the landside toe of the levee.					

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**

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Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	1.14	Rating **	M	Issue No.	65
LM End	1.14	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 : SP_2015_RD1602_110_65_20150313_00037.jpg



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

LM Start	1.14	Rating **	M	Issue No.	65 (cont)
LM End	1.14	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2015_RD1602_110_65_20150313_00038.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	1.19	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 : SP_2015_RD1602_110_79_20150313_00051.jpg



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

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

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Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	1.19	Rating **	M	Issue No.	79 (cont)
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 2 of 2 : SP_2015_RD1602_110_79_20150313_00052.jpg



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

LM Start	1.46	Rating **	C	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.					

No Photos

LM Start	1.61	Rating **	M	Issue No.	43
LM End	2.27	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 : SP_2015_RD1602_110_43_20150313_00020.jpg



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

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

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	1.66	Rating **	M	Issue No.	20
LM End	1.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.477007 °	37.477007 °	
			-121.058372 °	-121.058372 °	
DWR ID	DWR_RD1602_01_s_2015_20				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_20_20150406_00080.jpg



View of rodent holes on the landside of the levee looking upstream.

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 : SP_2015_RD1602_110_18_20150313_00007.jpg



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

LM Start	1.72	Rating **	M	Issue No.	32
LM End	1.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.476214 °	37.476214 °	
			-121.058025 °	-121.058025 °	
DWR ID	DWR_RD1602_01_f_2014_32				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_32_20150313_00012.jpg



View of the rodent holes on the waterside of the levee looking from the toe.

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

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	1.99	Rating **	C	Issue No.	33
LM End	2.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.472267 °	37.467739 °	
			-121.057895 °	-121.047531 °	
DWR ID	DWR_RD1602_01_f_2014_33				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	2.00	Rating **	M	Issue No.	21
LM End	3.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.472108 °	37.462338 °	
			-121.057862 °	-121.041585 °	
DWR ID	DWR_RD1602_01_s_2015_21				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	2.03	Rating **	M	Issue No.	45
LM End	2.03	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.471734 °	37.471734 °	
			-121.057670 °	-121.057670 °	
DWR ID	DWR_RD1602_01_s_2012_45				
Action/Comments					
Equipment Inspector Comments: A well is present at the toe of the landside of the slope.					

Photo 1 of 1 : SP_2015_RD1602_110_45_20150313_00022.jpg



A well is located at the landside toe of the levee. The picture was taken from the crown looking toward the landside of the levee.

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

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	2.10	Rating **	M	Issue No.	85
LM End	2.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.470858 °	37.470858 °
				-121.057140 °	-121.057140 °
DWR ID	DWR_RD1602_01_s_2012_85				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 2 : SP_2015_RD1602_110_85_20150313_00053.jpg



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

LM Start	2.10	Rating **	M	Issue No.	85 (cont)
LM End	2.10	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2015_RD1602_110_85_20150313_00054.jpg



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

LM Start	2.17	Rating **	C	Issue No.	86
LM End	2.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.470323 °	37.470323 °
				-121.056148 °	-121.056148 °
DWR ID	DWR_RD1602_01_s_2012_86				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	2.23	Rating **	M	Issue No.	59
LM End	3.43	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.470119 °	37.459606 °	
			-121.055117 °	-121.043240 °	
DWR ID	DWR_RD1602_01_s_2012_59				
Action/Comments					
Ditch Inspector Comments: Concrete ditch was constructed before the levee was built.					

Photo 1 of 1 : SP_2015_RD1602_110_59_20150313_00031.jpg



Concrete drain was built at the toe of the levee. The picture was taken from the crown looking upstream.

LM Start	2.27	Rating **	M	Issue No.	35
LM End	2.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.470290 °	37.470290 °	
			-121.054278 °	-121.054278 °	
DWR ID	DWR_RD1602_01_f_2013_35				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_35_20150313_00013.jpg



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

LM Start	2.97	Rating **	M	Issue No.	23
LM End	2.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.464955 °	37.464955 °	
			-121.044415 °	-121.044415 °	
DWR ID	DWR_RD1602_01_s_2015_23				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_23_20150406_00081.jpg



View of rodent holes on the landside slope of the levee looking upstream.

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

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	3.30	Rating **	U	Issue No.	8
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					
Action/Comments					
Inspector Comments: FS_ID:21652 DS_ID:20204 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: 10/01/2013					

No Photos

LM Start	3.30	Rating **	M	Issue No.	54
LM End	3.46	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 : SP_2015_RD1602_110_54_20150313_00027.jpg



A concrete lined ditch 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 M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	3.30	Rating **	M	Issue No.	40
LM End	3.30	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	3.37	Rating **	M	Issue No.	50
LM End	3.53	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 : SP_2015_RD1602_110_50_20150313_00025.jpg



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

LM Start	3.44	Rating **	M	Issue No.	24
LM End	3.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.459552 °	37.459552 °
				-121.043315 °	-121.043315 °
DWR ID	DWR_RD1602_01_s_2015_24				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_24_20150406_00082.jpg



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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	3.49	Rating **	M	Issue No.	25
LM End	3.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.458903 °	37.458903 °
				-121.043775 °	-121.043775 °
DWR ID	DWR_RD1602_01_s_2015_25				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_25_20150406_00083.jpg



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

LM Start	3.49	Rating **	M	Issue No.	106
LM End	3.49	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 : SP_2015_RD1602_110_106_20150313_00059.jpg



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

LM Start	3.51	Rating **	M	Issue No.	27
LM End	3.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.458572 °	37.458572 °
				-121.043957 °	-121.043957 °
DWR ID	DWR_RD1602_01_s_2015_27				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	3.57	Rating **	M	Issue No.	28
LM End	3.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.457785 °	37.452877 °	
			-121.044490 °	-121.041862 °	
DWR ID	DWR_RD1602_01_s_2015_28				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	3.62	Rating **	M	Issue No.	30
LM End	3.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.457072 °	37.457072 °	
			-121.044687 °	-121.044687 °	
DWR ID	DWR_RD1602_01_s_2015_30				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	3.68	Rating **	M	Issue No.	34
LM End	3.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.456377 °	37.452877 °	
			-121.044423 °	-121.041862 °	
DWR ID	DWR_RD1602_01_s_2015_34				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	3.80	Rating **	M	Issue No.	15
LM End	3.80	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 : SP_2015_RD1602_110_15_20150313_00004.jpg



Debris was located on the landside of the levee. The picture was taken from the crown looking upstream.

LM Start	3.80	Rating **	M	Issue No.	15 (cont)
LM End	3.80	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2015_RD1602_110_15_20150313_00005.jpg



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

LM Start	3.82	Rating **	M	Issue No.	42
LM End	3.82	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 : SP_2015_RD1602_110_42_20150313_00019.jpg



Remove landscaping from within 10' of landside toe.

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

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	3.87	Rating **	M	Issue No.	66
LM End	3.92	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.453936 °	37.453309 °	
			-121.042673 °	-121.042191 °	
DWR ID	DWR_RD1602_01_f_2013_66				
Action/Comments					
Fence					

Photo 1 of 1 : SP_2015_RD1602_110_66_20150313_00039.jpg



Fences were found on the landside toe of the levee looking upstream.

LM Start	3.88	Rating **	M	Issue No.	94
LM End	3.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.453891 °	37.453891 °	
			-121.042629 °	-121.042629 °	
DWR ID	DWR_RD1602_01_s_2012_94				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_94_20150313_00056.jpg



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

LM Start	3.89	Rating **	U	Issue No.	9
LM End	3.89	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.454080 °	37.454080 °	
			-121.042758 °	-121.042758 °	
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:21656 DS_ID:20206 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: 10/01/2013					

No Photos

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

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	3.93	Rating **	M	Issue No.	62
LM End	3.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.453216 °	37.453216 °
				-121.042127 °	-121.042127 °
DWR ID	DWR_RD1602_01_s_2012_62				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Significant damage to USACE constructed seepage berm due to human activity.					

Photo 1 of 1 : SP_2015_RD1602_110_62_20150313_00034.jpg



Repair damage to USACE constructed seepage berm by pedestrian and cycle traffic at LM 3.96.

LM Start	3.94	Rating **	M	Issue No.	63
LM End	4.04	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 : SP_2015_RD1602_110_63_20150313_00035.jpg



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

LM Start	3.96	Rating **	M	Issue No.	47
LM End	3.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.452877 °	37.452877 °
				-121.041862 °	-121.041862 °
DWR ID	DWR_RD1602_01_s_2015_47				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_47_20150406_00084.jpg



Rodent holes were found on the waterside of the levee looking upstream.

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

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	3.99	Rating **	M	Issue No.	49
LM End	3.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.452518 °	37.452518 °	
			-121.041663 °	-121.041663 °	
DWR ID	DWR_RD1602_01_s_2015_49				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	4.00	Rating **	M	Issue No.	51
LM End	4.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.452370 °	37.452370 °	
			-121.041482 °	-121.041482 °	
DWR ID	DWR_RD1602_01_s_2015_51				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_51_20150406_00085.jpg



A number of rodent holes were found on the waterside slope of the levee.

LM Start	4.01	Rating **	M	Issue No.	53
LM End	4.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.452242 °	37.452242 °	
			-121.041373 °	-121.041373 °	
DWR ID	DWR_RD1602_01_s_2015_53				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_53_20150406_00086.jpg



A rodent 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 - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	4.09	Rating **	M	Issue No.	41
LM End	4.09	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.					

Photo 1 of 1 : SP_2015_RD1602_110_41_20150313_00018.jpg



View of a rodent hole on the waterside toe of the levee during fall 2014 inspection.

LM Start	4.12	Rating **	M	Issue No.	17
LM End	4.12	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.					

Photo 1 of 1 : SP_2015_RD1602_110_17_20150313_00006.jpg



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

LM Start	4.19	Rating **	M	Issue No.	190
LM End	4.19	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.					

Photo 1 of 1 : SP_2015_RD1602_110_190_20150313_00062.jpg



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

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

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	4.19	Rating **	M	Issue No.	44
LM End	4.19	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 : SP_2015_RD1602_110_44_20150313_00021.jpg



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

LM Start	4.19	Rating **	M	Issue No.	46
LM End	4.19	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 : SP_2015_RD1602_110_46_20150313_00023.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	4.20	Rating **	M	Issue No.	56
LM End	4.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.450088 °	37.450088 °
				-121.039307 °	-121.039307 °
DWR ID	DWR_RD1602_01_s_2015_56				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	4.32	Rating **	M	Issue No.	192
LM End	4.32	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

LM Start	4.34	Rating **	M	Issue No.	52
LM End	4.34	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 : SP_2015_RD1602_110_52_20150313_00026.jpg



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

LM Start	4.35	Rating **	M	Issue No.	109
LM End	4.35	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 : SP_2015_RD1602_110_109_20150313_00060.jpg



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

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

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	4.35	Rating **	M	Issue No.	109 (cont)
LM End	4.35	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 2 of 2 : SP_2015_RD1602_110_109_20150313_00061.jpg



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

LM Start	4.36	Rating **	M	Issue No.	60
LM End	4.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.448033 °	37.448033 °
				-121.037955 °	-121.037955 °
DWR ID	DWR_RD1602_01_s_2015_60				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_60_20150406_00088.jpg



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

LM Start	4.42	Rating **	M	Issue No.	67
LM End	4.88	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 : SP_2015_RD1602_110_67_20150313_00040.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 WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	4.43	Rating **	M	Issue No.	48
LM End	4.43	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 : SP_2015_RD1602_110_48_20150313_00024.jpg



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

LM Start	4.47	Rating **	M	Issue No.	64
LM End	4.63	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 : SP_2015_RD1602_110_64_20150313_00036.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 M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	4.59	Rating **	M	Issue No.	196
LM End	4.59	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 : SP_2015_RD1602_110_196_20150313_00064.jpg



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

LM Start	4.61	Rating **	M	Issue No.	69
LM End	4.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.444592 °	37.444592 °
				-121.037810 °	-121.037810 °
DWR ID	DWR_RD1602_01_s_2015_69				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_69_20150406_00090.jpg



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

LM Start	4.67	Rating **	M	Issue No.	71
LM End	4.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.443737 °	37.443737 °
				-121.037905 °	-121.037905 °
DWR ID	DWR_RD1602_01_s_2015_71				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	4.88	Rating **	M	Issue No.	80
LM End	5.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.441023 °	37.435662 °	
			-121.036965 °	-121.035438 °	
DWR ID	DWR_RD1602_01_s_2015_80				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	5.09	Rating **	M	Issue No.	199
LM End	5.09	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 : SP_2015_RD1602_110_199_20150313_00065.jpg



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

LM Start	5.10	Rating **	U	Issue No.	81
LM End	5.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.437903 °	37.437903 °	
			-121.037040 °	-121.037040 °	
DWR ID	DWR_RD1602_01_s_2015_81				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or gROUT burrows.					

Photo 1 of 1 : SP_2015_RD1602_110_81_20150406_00091.jpg



A few animal holes were found on the waterside slope of the levee looking upstream.

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

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	5.23	Rating **	U	Issue No.	12
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					
Action/Comments					
Inspector Comments: FS_ID:42983 DS_ID:20208 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Soil and debris prevent flapgate from proper function. 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: 10/01/2013					

No Photos

LM Start	5.25	Rating **	M	Issue No.	202
LM End	5.25	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 : SP_2015_RD1602_110_202_20150313_00066.jpg



Erosion was found on the landside slope 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 - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	5.29	Rating **	M	Issue No.	75
LM End	5.49	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 : SP_2015_RD1602_110_75_20150313_00046.jpg



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

LM Start	5.29	Rating **	M	Issue No.	75 (cont)
LM End	5.49	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2015_RD1602_110_75_20150313_00047.jpg



Overgrown vegetation was found on the waterside slope of the levee looking upstream.

LM Start	5.30	Rating **	M	Issue No.	102
LM End	5.30	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 : SP_2015_RD1602_110_102_20150313_00057.jpg



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

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

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	5.32	Rating **	M	Issue No.	61
LM End	5.45	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 : SP_2015_RD1602_110_61_20150313_00032.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	5.32	Rating **	M	Issue No.	61 (cont)
LM End	5.45	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2015_RD1602_110_61_20150313_00033.jpg



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

LM Start	5.35	Rating **	M	Issue No.	204
LM End	5.35	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 : SP_2015_RD1602_110_204_20150313_00067.jpg



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

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

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	5.50	Rating **	M	Issue No.	13
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					
Action/Comments					
Inspector Comments: FS_ID:21674 DS_ID:20211 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 c own. Flap gate on the waterward end. (Maint. 1602) (could not locate 3/84) Originally included in 1964 O&M manual. FS Date: 10/01/2013					

No Photos

LM Start	5.76	Rating **	U	Issue No.	14
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					
Action/Comments					
Inspector Comments: FS_ID:43100 DS_ID:20212 EP_NO: N/A Repair Type: 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: 10/01/2013					

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 - Spring 2015

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/02/2015 04/02/2015	Pavel Kazi

LM Start	6.29	Rating **	M	Issue No.	16
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					
Action/Comments					
Inspector Comments: FS_ID:21683 DS_ID:20214 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: 10/01/2013					

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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