

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2016 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 2016 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	4/7/2016 - 4/7/2016			
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 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	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
DWR ID	DWR_RD1602_01_s_2012_39				
Comment Code					
Inspector Comment					
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
DWR ID	DWR_RD1602_01_s_2012_77				
Comment Code					
Inspector Comment					
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
DWR ID	DWR_RD1602_01_s_2012_97				
Comment Code					
Inspector Comment					
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 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	0.00	Rating **	U	Issue No.	1
LM End	0.11	Issue Type +	En	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.477233 °	37.477295 °	
			-121.083862 °	-121.082087 °	
DWR ID	DWR_RD1602_01_s_2012_1				
Comment Code					
BU : Building					
Inspector Comment					
Animal pens across levee crown.					

Photo 1 of 1 : SP_2016_RD1602_110_1_20160219_00001.jpg



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

LM Start	0.13	Rating **	M	Issue No.	21
LM End	0.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.477233 °	37.480269 °	
			-121.081740 °	-121.075104 °	
DWR ID	DWR_RD1602_01_f_2015_21				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1602_110_21_20160408_00095.jpg



View of the vegetation on the waterside of the levee.

LM Start	0.15	Rating **	M	Issue No.	26
LM End	0.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.477364 °	37.480269 °	
			-121.081423 °	-121.075103 °	
DWR ID	DWR_RD1602_01_f_2015_26				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	0.20	Rating **	M	Issue No.	28
LM End	0.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.477706 °	37.477706 °
				-121.080674 °	-121.080674 °
DWR ID	DWR_RD1602_01_f_2015_28				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD1602_110_28_20160408_00094.jpg



Updated picture of the rodent hole on the waterside of the levee during spring 2016 inspection.

LM Start	0.20	Rating **	M	Issue No.	28 (cont)
LM End	0.20	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2016_RD1602_110_28_20160219_00009.jpg



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

LM Start	0.47	Rating **	M	Issue No.	31
LM End	0.47	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.479659 °	37.479659 °
				-121.076419 °	-121.076419 °
DWR ID	DWR_RD1602_01_f_2015_31				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	0.58	Rating **	U	Issue No.	204
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					
Comment Code					
Inspector Comment					
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: 10/1/2013 7:57:22 AM					

Photo 1 of 2 : UCIP_SP_2016_21623_36702.jpg



60-inch CMP riser on WS shoulder.

LM Start	0.58	Rating **	U	Issue No.	204 (cont)
LM End	0.58	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_21623_36701.jpg



CMP riser with slide gate on WS shoulder.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	0.58	Rating **	M	Issue No.	208
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					
Comment Code					
Inspector Comment					
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: 10/1/2013					

Photo 1 of 2 : UCIP_SP_2016_22937_39050.jpg



Communication line access box on LS shoulder.

LM Start	0.58	Rating **	M	Issue No.	208 (cont)
LM End	0.58	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_22937_39049.jpg



Communication line access box on LS shoulder.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

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				
Comment Code					
FE : Fence					
Inspector Comment					
Barbed wire fence along the landward toe.					

Photo 1 of 1 : SP_2016_RD1602_110_70_20160219_00042.jpg



View of barbed wire fence at landward toe looking upstream.

LM Start	0.77	Rating **	U	Issue No.	211
LM End	0.77	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					
Comment Code					
Inspector Comment					
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 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					

Photo 1 of 2 : UCIP_SP_2016_43084_36723.jpg



Inlet on LS toe.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	0.77	Rating **	U	Issue No.	211 (cont)
LM End	0.77	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					
Comment Code					
Inspector Comment					
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 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					

Photo 2 of 2 : UCIP_SP_2016_43084_36722.jpg



Slide gate in concrete box on WS shoulder.

LM Start	1.00	Rating **	M	Issue No.	36
LM End	1.00	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.478810 °	37.478810 °
				-121.068738 °	-121.068738 °
DWR ID	DWR_RD1602_01_s_2012_36				
Comment Code					
RA : Ramp					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1602_110_36_20160219_00012.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 M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	1.00	Rating **	U	Issue No.	205
LM End	1.00	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					
Comment Code					
Inspector Comment					
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. Flaggate 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					

LM Start	1.00	Rating **	U	Issue No.	205 (cont)
LM End	1.00	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2016_21639_36758.jpg



Pumping plant on LS toe. Pipe visible under walkway.

Photo 2 of 2 : UCIP_SP_2016_21639_36757.jpg



Siphon breaker in 24-inch CMP riser on WS shoulder.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	1.00	Rating **	U	Issue No.	206
LM End	1.00	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					
Comment Code					
Inspector Comment					
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: 10/1/2013					

Photo 1 of 2 : UCIP_SP_2016_21642_36772.jpg



Pipe visible under walkway at puming plant on LS toe.

LM Start	1.00	Rating **	U	Issue No.	206 (cont)
LM End	1.00	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_21642_36771.jpg



Siphon breaker covered in soil at CMP riser on WS shoulder.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	1.02	Rating **	U	Issue No.	210
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					
Comment Code					
Inspector Comment					
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: 10/1/2013					

Photo 1 of 2 : UCIP_SP_2016_41771_36786.jpg



Grated inlet and 5'X5' concrete box on LS toe.

LM Start	1.02	Rating **	U	Issue No.	210 (cont)
LM End	1.02	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_41771_36785.jpg



Grated inlet at LS toe.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	1.02	Rating **	U	Issue No.	55
LM End	1.02	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Concrete Tilting / Settlement			37.478772 °	37.478772 °
				-121.068454 °	-121.068454 °
DWR ID	DWR_RD1602_01_s_2012_55				
Comment Code					
Inspector Comment					
The outlet headwall is tilting away from the pipe rendering the existing flap gate ineffective. The LMA is planning to repair gap between pipe and headwall and stabilize headwall to prevent further damage.					

LM Start	1.02	Rating **	U	Issue No.	55 (cont)
LM End	1.02	Issue Type +	Ma	Location *	WS

LM Start	1.02	Rating **	U	Issue No.	55 (cont)
LM End	1.02	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP_2016_RD1602_110_55_20160219_00027.jpg



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

Photo 2 of 3 : SP_2016_RD1602_110_55_20160219_00028.jpg



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

Photo 3 of 3 : SP_2016_RD1602_110_55_20160219_00029.jpg



Separation of outfall structure from the outlet pipe.

* 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 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	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				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Small amount of slumping at waterside toe of the levee.					

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

Photo 1 of 2 : SP_2016_RD1602_110_37_20160219_00013.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.

Photo 2 of 2 : SP_2016_RD1602_110_37_20160219_00014.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 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

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

Photo 1 of 2 : SP_2016_RD1602_110_11_20160219_00002.jpg



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

Photo 2 of 2 : SP_2016_RD1602_110_11_20160219_00003.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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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	04/07/2016 04/07/2016	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD1602_110_65_20160411_00096.jpg



Updated picture of the rodent hole on waterside of the levee during spring 2016 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_2016_RD1602_110_65_20160219_00037.jpg



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

LM Start	1.19	Rating **	C	Issue No.	29
LM End	1.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.478297 °	37.475610 °
				-121.065500 °	-121.057955 °
DWR ID	DWR_RD1602_01_f_2015_29				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
This issue is corrected.					

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 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	1.19	Rating **	C	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
This issue is corrected.					

No Photos

LM Start	1.53	Rating **	C	Issue No.	34
LM End	1.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.478405 °	37.477004 °
				-121.059862 °	-121.058378 °
DWR ID	DWR_RD1602_01_f_2015_34				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
This issue is corrected.					

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				
Comment Code					
FE : Fence					
Inspector Comment					
Fence at the landside toe of the levee.					

Photo 1 of 1 : SP_2016_RD1602_110_43_20160219_00017.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 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	1.66	Rating **	C	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
This issue is corrected.					

No Photos

LM Start	1.66	Rating **	C	Issue No.	78
LM End	1.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.477004 °	37.475614 °
				-121.058379 °	-121.057953 °
DWR ID	DWR_RD1602_01_f_2015_78				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
This issue is corrected.					

No Photos

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	1.69	Rating **	U	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1602_110_18_20160219_00004.jpg



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

LM Start	1.84	Rating **	A	Issue No.	16
LM End	1.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.474555 °	37.474555 °	
			-121.057932 °	-121.057932 °	
DWR ID	DWR_RD1602_01_s_2016_16				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
LMA removed the vegetation on the waterside slope of the levee.					

Photo 1 of 1 : SP_2016_RD1602_110_16_20160411_00097.jpg



View of an acceptable vegetation on the waterside slope of the levee.

LM Start	1.99	Rating **	C	Issue No.	80
LM End	2.41	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.472322 °	37.470282 °	
			-121.057893 °	-121.051785 °	
DWR ID	DWR_RD1602_01_f_2015_80				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
This issue is corrected.					

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 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	2.00	Rating **	C	Issue No.	82
LM End	2.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.472198°	37.467236°
				-121.057870°	-121.046905°
DWR ID	DWR_RD1602_01_f_2015_82				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
This issue is corrected.					

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				
Comment Code					
EQ : Equipment					
Inspector Comment					
A well is present at the toe of the landside of the slope.					

Photo 1 of 1 : SP_2016_RD1602_110_45_20160219_00019.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.

LM Start	2.04	Rating **	A	Issue No.	17
LM End	2.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.471585°	37.471585°
				-121.057586°	-121.057586°
DWR ID	DWR_RD1602_01_s_2016_17				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1602_110_17_20160411_00098.jpg



View of an acceptable vegetation on the landside slope of the levee.

* 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 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	2.10	Rating **	C	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
This issue is corrected.					

No Photos

LM Start	2.23	Rating **	M	Issue No.	59
LM End	3.30	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.470119 °	37.461147 °
				-121.055117 °	-121.041785 °
DWR ID	DWR_RD1602_01_s_2012_59				
Comment Code					
DT : Ditch					
Inspector Comment					
Concrete ditch was constructed before the levee was built.					

Photo 1 of 1 : SP_2016_RD1602_110_59_20160219_00031.jpg



Concrete drain was built at the 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 - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	2.41	Rating **	C	Issue No.	38
LM End	3.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.470282°	37.459728°	
			-121.051785°	-121.043070°	
DWR ID	DWR_RD1602_01_f_2015_38				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
This issue is corrected by the LMA.					

No Photos

LM Start	2.67	Rating **	M	Issue No.	19
LM End	2.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.468212°	37.468212°	
			-121.048096°	-121.048096°	
DWR ID	DWR_RD1602_01_s_2016_19				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1602_110_19_20160411_00099.jpg



View of rodent holes on the waterside of the levee.

LM Start	2.93	Rating **	C	Issue No.	83
LM End	3.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.465392°	37.459728°	
			-121.044755°	-121.043070°	
DWR ID	DWR_RD1602_01_f_2015_83				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
This issue is corrected by the LMA.					

No Photos

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	2.97	Rating **	C	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
This issue is corrected by the LMA.					

No Photos

LM Start	3.10	Rating **	M	Issue No.	24
LM End	3.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.463563 °	37.463563 °	
			-121.042784 °	-121.042784 °	
DWR ID	DWR_RD1602_01_s_2016_24				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1602_110_24_20160411_00100.jpg



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

LM Start	3.16	Rating **	M	Issue No.	25
LM End	3.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.462947 °	37.462947 °	
			-121.041967 °	-121.041967 °	
DWR ID	DWR_RD1602_01_s_2016_25				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1602_110_25_20160411_00101.jpg



View of rodent holes 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	+ 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 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	3.27	Rating **	U	Issue No.	207
LM End	3.27	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.461507 °	37.461507 °
				-121.041609 °	-121.041609 °
DWR ID					
Comment Code					
Inspector Comment					
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: 10/1/2013					

Photo 1 of 2 : UCIP_SP_2016_21652_36805.jpg



Pipe visible in concrete channel on LS toe.

LM Start	3.27	Rating **	U	Issue No.	207 (cont)
LM End	3.27	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_SP_2016_21652_36804.jpg



Slide gate in 60-inch CMP riser on WS shoulder.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

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				
Comment Code					
DT : Ditch					
Inspector Comment					
Concrete lined ditch on the landside toe of the levee.					

Photo 1 of 1 : SP_2016_RD1602_110_54_20160219_00026.jpg



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

LM Start	3.34	Rating **	M	Issue No.	50
LM End	3.53	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.460644 °	37.458373 °	
			-121.042231 °	-121.044081 °	
DWR ID	DWR_RD1602_01_s_2012_50				
Comment Code					
DT : Ditch					
Inspector Comment					
A ditch is located on waterside toe of the levee.					

Photo 1 of 1 : SP_2016_RD1602_110_50_20160219_00022.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 - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	3.80	Rating **	C	Issue No.	86
LM End	3.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.454858 °	37.454858 °	
			-121.043364 °	-121.043364 °	
DWR ID	DWR_RD1602_01_f_2015_86				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
This issue is corrected by the LMA.					

No Photos

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				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1602_110_42_20160219_00016.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 M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	3.86	Rating **	U	Issue No.	201
LM End	3.86	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					
Comment Code					
Inspector Comment					
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: 10/1/2013					

No Photos

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				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1602_110_66_20160219_00039.jpg



Fences were 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 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	3.96	Rating **	C	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
This issue is corrected by the LMA.					

No Photos

LM Start	3.99	Rating **	C	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
This issue is corrected by the LMA.					

No Photos

LM Start	4.00	Rating **	C	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
This issue is corrected by the LMA.					

No Photos

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	4.01	Rating **	C	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
This issue is corrected by the LMA.					

No Photos

LM Start	4.15	Rating **	C	Issue No.	88
LM End	4.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.450623 °	37.450623 °
				-121.039763 °	-121.039763 °
DWR ID	DWR_RD1602_01_f_2015_88				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
This issue is corrected by the LMA.					

No Photos

LM Start	4.15	Rating **	C	Issue No.	87
LM End	4.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.450623 °	37.449644 °
				-121.039763 °	-121.038996 °
DWR ID	DWR_RD1602_01_f_2015_87				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
This issue is corrected by the LMA.					

No Photos

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	4.16	Rating **	A	Issue No.	27
LM End	4.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.450540 °	37.450540 °	
			-121.039681 °	-121.039681 °	
DWR ID	DWR_RD1602_01_s_2016_27				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1602_110_27_20160411_00102.jpg



View of an acceptable vegetation on the waterside of the levee looking upstream.

LM Start	4.19	Rating **	C	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
This issue is corrected by the LMA.					

No Photos

LM Start	4.19	Rating **	C	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA repaired this issue.					

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 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	4.20	Rating **	A	Issue No.	30
LM End	4.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.450095 °	37.450095 °
				-121.039308 °	-121.039308 °
DWR ID	DWR_RD1602_01_s_2016_30				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
LMA fixed the animal holes in the area.					

Photo 1 of 1 : SP_2016_RD1602_110_30_20160411_00103.jpg



LMA has repaired multiple rodent holes on the landside slope of the levee looking downstream.

LM Start	4.20	Rating **	C	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA backfilled the rodent holes in this area.					

No Photos

LM Start	4.20	Rating **	C	Issue No.	57
LM End	4.20	Issue Type +	Ma	Location *	WS
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_57				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA backfilled the rodent holes in this area.					

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 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	4.29	Rating **	C	Issue No.	191
LM End	4.29	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA backfilled the rodent holes in this area.					

No Photos

LM Start	4.34	Rating **	C	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA backfilled the rodent holes in this area.					

No Photos

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	4.35	Rating **	A	Issue No.	32
LM End	4.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.448149 °	37.448149 °
				-121.038071 °	-121.038071 °
DWR ID	DWR_RD1602_01_s_2016_32				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
LMA backfilled all of the animal holes in this area.					

Photo 1 of 1 : SP_2016_RD1602_110_32_20160411_00104.jpg



LMA has repaired the rodent holes on the waterside slope of the levee during spring 2016 inspection.

LM Start	4.35	Rating **	C	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA backfilled the rodent holes in this area.					

No Photos

LM Start	4.36	Rating **	C	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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA backfilled the rodent holes in this area.					

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 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

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				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1602_110_67_20160219_00040.jpg



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

LM Start	4.47	Rating **	U	Issue No.	202
LM End	4.47	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					
Comment Code					
Inspector Comment					
FS_ID:21657 DS_ID:20207 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					

Photo 1 of 2 : UCIP_SP_2016_21657_36819.jpg



Slide gate in CMP riser on WS slope.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	4.47	Rating **	U	Issue No.	202 (cont)
LM End	4.47	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					
Comment Code					
Inspector Comment					
FS_ID:21657 DS_ID:20207 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					

Photo 2 of 2 : UCIP_SP_2016_21657_36818.jpg



Slide gate in CMP riser on WS slope.

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				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1602_110_64_20160219_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 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	4.52	Rating **	M	Issue No.	35
LM End	4.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.445785 °	37.445785 °
				-121.037774 °	-121.037774 °
DWR ID	DWR_RD1602_01_s_2016_35				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1602_110_35_20160411_00105.jpg



View of an animal hole on the waterside shoulder of the levee looking downstream.

LM Start	4.59	Rating **	C	Issue No.	68
LM End	4.59	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.444838 °	37.444838 °
				-121.037687 °	-121.037687 °
DWR ID	DWR_RD1602_01_s_2015_68				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA backfilled the rodent holes in this area.					

No Photos

LM Start	4.68	Rating **	C	Issue No.	89
LM End	5.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.443492 °	37.435795 °
				-121.037742 °	-121.035570 °
DWR ID	DWR_RD1602_01_f_2015_89				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
LMA cleared the vegetation on the waterside slope of the levee.					

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 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	4.72	Rating **	A	Issue No.	40
LM End	4.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.443019 °	37.443019 °
				-121.037371 °	-121.037371 °
DWR ID	DWR_RD1602_01_s_2016_40				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
LMA removed the vegetation from the slope.					

Photo 1 of 1 : SP_2016_RD1602_110_40_20160411_00106.jpg



View of an acceptable vegetation on the waterside slope of the levee looking upstream.

LM Start	4.77	Rating **	M	Issue No.	74
LM End	4.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.442465 °	37.442465 °
				-121.036947 °	-121.036947 °
DWR ID	DWR_RD1602_01_s_2015_74				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1602_110_74_20160411_00107.jpg



View of a rodent hole on the waterside toe of the levee.

LM Start	4.89	Rating **	M	Issue No.	90
LM End	5.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.440829 °	37.436202 °
				-121.037054 °	-121.036126 °
DWR ID	DWR_RD1602_01_f_2015_90				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

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 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	4.90	Rating **	M	Issue No.	41
LM End	5.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.440770 °	37.435695 °	
			-121.037083 °	-121.035442 °	
DWR ID	DWR_RD1602_01_s_2016_41				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

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				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1602_110_199_20160219_00060.jpg



Rodent holes were found on the waterside 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 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	5.18	Rating **	U	Issue No.	48
LM End	5.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.436785 °	37.436785 °
				-121.036593 °	-121.036593 °
DWR ID	DWR_RD1602_01_s_2016_48				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes possibly worsen by help of dogs.					

Photo 1 of 1 : SP_2016_RD1602_110_48_20160411_00108.jpg



View of rodent holes on the waterside of the levee looking downstream.

LM Start	5.19	Rating **	U	Issue No.	212
LM End	5.19	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					
Comment Code					
Inspector Comment					
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: 10/1/2013					

Photo 1 of 2 : UCIP_SP_2016_42983_36822.jpg



Slide gate in CMP riser on WS slope. Outlet visible under tree in background.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	5.19	Rating **	U	Issue No.	212 (cont)
LM End	5.19	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					
Comment Code					
Inspector Comment					
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: 10/1/2013					

Photo 2 of 2 : UCIP_SP_2016_42983_36821.jpg



Flapgate in Concrete headwall on WS toe under tree.

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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD1602_110_75_20160219_00045.jpg



Vegetation was found on the waterside slope of the levee looking upstream during 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 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	5.29	Rating **	M	Issue No.	75 (cont)
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				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 2 of 2 : SP_2016_RD1602_110_75_20160219_00046.jpg



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

LM Start	5.30	Rating **	C	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				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

No Photos

LM Start	5.35	Rating **	M	Issue No.	61
LM End	5.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.434732 °	37.433660 °
				-121.035088 °	-121.033838 °
DWR ID	DWR_RD1602_01_s_2012_61				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1602_110_61_20160219_00033.jpg



Vegetation was obstructing the view of the landside of the levee.

* 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 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	5.38	Rating **	M	Issue No.	22
LM End	5.44	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				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1602_110_22_20160219_00007.jpg



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

LM Start	5.46	Rating **	M	Issue No.	203
LM End	5.46	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					
Comment Code					
Inspector Comment					
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: 10/1/2013					

Photo 1 of 1 : UCIP_SP_2016_21674_36854.jpg



Pipe and flapgate visible on WS toe.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	5.72	Rating **	U	Issue No.	209
LM End	5.72	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					
Comment Code					
Inspector Comment					
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: 10/1/2013					

Photo 1 of 2 : UCIP_SP_2016_43100_36878.jpg



Slide gate in concrete riser on WS shoulder.

LM Start	5.72	Rating **	U	Issue No.	209 (cont)
LM End	5.72	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_43100_36877.jpg



Concrete U-shaped headwall on LS toe.

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

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	04/07/2016 04/07/2016	Pavel Kazi

LM Start	6.24	Rating **	M	Issue No.	200
LM End	6.24	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					
Comment Code					
Inspector Comment					
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: 10/1/2013					

Photo 1 of 2 : UCIP_SP_2016_21683_36882.jpg



Drainage/irrigation canal on LS toe.

LM Start	6.24	Rating **	M	Issue No.	200 (cont)
LM End	6.24	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_21683_36881.jpg



36-inch concrete standpipe on WS shoulder.

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