

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	11/03/2014 11/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	23
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals		°	°	°
DWR ID	DWR_NA0010_01_s_2013_23				
Action/Comments					
Inspector Comments: The LMA maintains a copy of the O&M manuals on file at district office.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment		°	°	°
DWR ID	DWR_NA0010_01_s_2013_24				
Action/Comments					
Inspector Comments: The LMA has an adequate supplies and equipment for flood response.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	25
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training		°	°	°
DWR ID	DWR_NA0010_01_s_2013_25				
Action/Comments					
Inspector Comments: LMA preparedness and training is adequate for flood response.					

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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	11/03/2014 11/06/2014	Richard Willoughby

LM Start	0.07	Rating **	A/W	Issue No.	4
LM End	0.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.348223 °	37.347282 °	
			-120.959593 °	-120.960470 °	
DWR ID	DWR_NA0010_01_s_2012_4				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	0.07	Rating **	A/W	Issue No.	3
LM End	2.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.348222 °	37.328627 °	
			-120.959598 °	-120.934388 °	
DWR ID	DWR_NA0010_01_s_2012_3				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	0.07	Rating **	M	Issue No.	98
LM End	0.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.348157 °	37.348157 °	
			-120.959658 °	-120.959658 °	
DWR ID	DWR_NA0010_01_f_2014_98				
Action/Comments					
Tree or limb Inspector Comments: Downed tree limbs due to fire along levee slope.					

Photo 1 of 2 : FA_2014_NA0010_118_98_20141110_00022.jpg



Looking north at tree limbs on waterward 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	11/03/2014 11/06/2014	Richard Willoughby

LM Start	0.07	Rating **	M	Issue No.	98 (cont)
LM End	0.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.348157 °	37.348157 °
				-120.959658 °	-120.959658 °
DWR ID	DWR_NA0010_01_f_2014_98				
Action/Comments					
Tree or limb Inspector Comments: Downed tree limbs due to fire along levee slope.					

Photo 2 of 2 : FA_2014_NA0010_118_98_20141110_00021.jpg



Looking southwest at tree limbs on waterwater toe.

LM Start	0.16	Rating **	M	Issue No.	7
LM End	0.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.347152 °	37.347152 °
				-120.960560 °	-120.960560 °
DWR ID	DWR_NA0010_01_s_2012_7				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

LM Start	0.21	Rating **	M	Issue No.	99
LM End	0.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.346582 °	37.346582 °
				-120.961052 °	-120.961052 °
DWR ID	DWR_NA0010_01_f_2014_99				
Action/Comments					
Tree or limb Inspector Comments: Downed tree limbs on landward slope.					

Photo 1 of 1 : FA_2014_NA0010_118_99_20141110_00023.jpg



Looking south at tree limbs on landward slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	11/03/2014 11/06/2014	Richard Willoughby

LM Start	0.24	Rating **	M	Issue No.	1
LM End	0.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.346152 °	37.343935 °	
			-120.961402 °	-120.962536 °	
DWR ID	DWR_NA0010_01_s_2012_1				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Typical view of several rodent holes on landward slope.					

Photo 1 of 1 : FA_2014_NA0010_118_1_20141103_00001.jpg



Looking at typical rodent holes on landward slope.

LM Start	3.18	Rating **	M	Issue No.	10
LM End	3.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.321053 °	37.321053 °	
			-120.928785 °	-120.928785 °	
DWR ID	DWR_NA0010_01_s_2012_10				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	3.50	Rating **	A/W	Issue No.	17
LM End	3.96	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting				
DWR ID	DWR_NA0010_01_f_2012_17				
Action/Comments					
Add appropriate material and re-grade the levee to bring the crown above the design elevation.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	11/03/2014 11/06/2014	Richard Willoughby

LM Start	3.72	Rating **	M	Issue No.	2
LM End	3.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.313892 °	37.313598 °	
			-120.926507 °	-120.926607 °	
DWR ID	DWR_NA0010_01_s_2012_2				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	4.16	Rating **	M	Issue No.	100
LM End	4.16	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.309049 °	37.309049 °	
			-120.924421 °	-120.924421 °	
DWR ID	DWR_NA0010_01_f_2014_100				
Action/Comments					
Garbage Inspector Comments: Old PVC pipes left on landward slope.					

Photo 1 of 1 : FA_2014_NA0010_118_100_20141110_00024.jpg



Looking east at old pvc pipes on landward slope.

LM Start	4.20	Rating **	M	Issue No.	6
LM End	4.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.308540 °	37.308540 °	
			-120.924003 °	-120.924003 °	
DWR ID	DWR_NA0010_01_s_2012_6				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	11/03/2014 11/06/2014	Richard Willoughby

LM Start	4.72	Rating **	M	Issue No.	9
LM End	4.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.302398 °	37.302398 °	
			-120.920920 °	-120.920920 °	
DWR ID	DWR_NA0010_01_s_2013_9				
Action/Comments					
Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: Levee landward toe damaged by livestock.					

Photo 1 of 2 : FA_2014_NA0010_118_9_20141103_00005.jpg



Looking southeast at erosion on landward toe.

LM Start	4.72	Rating **	M	Issue No.	9 (cont)
LM End	4.72	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_NA0010_118_9_20141103_00006.jpg



Looking south at damage slope by livestock on landward slope.

LM Start	5.75	Rating **	A/W	Issue No.	116
LM End	5.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.304057 °	37.304057 °	
			-120.907200 °	-120.907200 °	
DWR ID	DWR_NA0010_01_s_2012_116				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Large rodent holes on landside slope near fence pole.					

Photo 1 of 3 : FA_2014_NA0010_118_116_20141103_00015.jpg



Looking east at one of several rodent holes on landside shoulder and 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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	11/03/2014 11/06/2014	Richard Willoughby

LM Start	5.75	Rating **	A/W	Issue No.	116 (cont)
LM End	5.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.304057 °	37.304057 °
				-120.907200 °	-120.907200 °
DWR ID	DWR_NA0010_01_s_2012_116				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Large rodent holes on landside slope near fence pole.					



Looking south at repaired rodent site on landside slope. (Fall 2012)

LM Start	5.75	Rating **	A/W	Issue No.	116 (cont)
LM End	5.75	Issue Type +	Ma	Location *	LS



Looking northeast at one of several holes on landside shoulder and slope.

LM Start	6.04	Rating **	C	Issue No.	13
LM End	6.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.303715 °	37.303838 °
				-120.902115 °	-120.891912 °
DWR ID	DWR_NA0010_01_s_2012_13				
Action/Comments					
Keep the crown roadway free of vegetation.					

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
--	--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	11/03/2014 11/06/2014	Richard Willoughby

LM Start	6.04	Rating **	A/W	Issue No.	12
LM End	6.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.303717 °	37.303837 °	
			-120.902108 °	-120.891907 °	
DWR ID	DWR_NA0010_01_s_2012_12				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	6.83	Rating **	C	Issue No.	11
LM End	7.36	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		37.302540 °	37.299882 °	
			-120.889113 °	-120.880217 °	
DWR ID	DWR_NA0010_01_s_2013_11				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

No Photos

LM Start	7.41	Rating **	A/W	Issue No.	14
LM End	7.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.299855 °	37.298730 °	
			-120.879455 °	-120.872387 °	
DWR ID	DWR_NA0010_01_s_2012_14				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	11/03/2014 11/06/2014	Richard Willoughby

LM Start	8.53	Rating **	A/W	Issue No.	16
LM End	9.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.296267 °	37.297492 °	
			-120.860195 °	-120.851050 °	
DWR ID	DWR_NA0010_01_s_2012_16				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	8.53	Rating **	A/W	Issue No.	15
LM End	9.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.296262 °	37.297492 °	
			-120.860183 °	-120.851052 °	
DWR ID	DWR_NA0010_01_s_2012_15				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	9.21	Rating **	A/W	Issue No.	117
LM End	10.76	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		37.296145 °	37.293077 °	
			-120.848588 °	-120.839170 °	
DWR ID	DWR_NA0010_01_s_2012_117				
Action/Comments					
Add appropriate material and re-grade the levee to bring the crown above the design elevation. Inspector Comments: Control vegetation on levee crown.					

Photo 1 of 3 : FA_2014_NA0010_118_117_20141103_00018.jpg



Looking south at typical view of vegetation on levee crown.

* 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	11/03/2014 11/06/2014	Richard Willoughby

LM Start	9.21	Rating **	A/W	Issue No.	117 (cont)
LM End	10.76	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.296145 °	37.293077 °
				-120.848588 °	-120.839170 °
DWR ID	DWR_NA0010_01_s_2012_117				
Action/Comments					
Add appropriate material and re-grade the levee to bring the crown above the design elevation. Inspector Comments: Control vegetation on levee crown.					

Photo 2 of 3 : FA_2014_NA0010_118_117_20141103_00019.jpg



Looking south at levee crown. (Fall 2013)

LM Start	9.21	Rating **	A/W	Issue No.	117 (cont)
LM End	10.76	Issue Type +	Ma	Location *	CR

Photo 3 of 3 : FA_2014_NA0010_118_117_20141103_00020.jpg



Looking south at vegetation on levee crown. (Spring 2013)

LM Start	10.88	Rating **	C	Issue No.	28
LM End	11.41	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.283153 °	37.278878 °
				-120.830870 °	-120.824165 °
DWR ID	DWR_NA0010_01_s_2013_28				
Action/Comments					
Add appropriate gravel or road base. Grade and compact.					

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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	11/03/2014 11/06/2014	Richard Willoughby

LM Start	12.62	Rating **	C	Issue No.	29
LM End	12.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.258970 °	37.258970 °	
			-120.826388 °	-120.826388 °	
DWR ID	DWR_NA0010_01_s_2013_29				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Rodent holes along fence line on landward slope.					

No Photos

LM Start	15.79	Rating **	C	Issue No.	30
LM End	15.79	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.226470 °	37.226470 °	
			-120.799622 °	-120.799622 °	
DWR ID	DWR_NA0010_01_s_2013_30				
Action/Comments					
Tree or limb Inspector Comments: Broken tree limb on landward toe.					

No Photos

LM Start	18.78	Rating **	M	Issue No.	27
LM End	18.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.205080 °	37.205080 °	
			-120.762655 °	-120.762655 °	
DWR ID	DWR_NA0010_01_s_2014_27				
Action/Comments					
Prunings					

Photo 1 of 1 : FA_2014_NA0010_118_27_20141103_00011.jpg



Looking at prunings on waterward shoulder and 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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.52	11/03/2014 11/06/2014	Richard Willoughby

LM Start	19.33	Rating **	M	Issue No.	8
LM End	19.33	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.200923 °	37.200923 °	
			-120.756987 °	-120.756987 °	
DWR ID	DWR_NA0010_01_s_2012_8				
Action/Comments					
Pipe Inspector Comments: Farmer installed a pipe across levee crown, landside and waterside slopes. Ramp is not according to standards.					

Photo 1 of 1 : FA_2014_NA0010_118_8_20141103_00004.jpg



Looking south at pipe across levee crown.

LM Start	20.28	Rating **	M	Issue No.	20
LM End	22.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.193426 °	37.172663 °	
			-120.760419 °	-120.754894 °	
DWR ID	DWR_NA0010_01_f_2012_20				
Action/Comments					
Agricultural tilling Inspector Comments: Farmer cutting into landside toe and slope.					

Photo 1 of 2 : FA_2014_NA0010_118_20_20141103_00007.jpg



Looking east at farmer discing into landside slope.

LM Start	20.28	Rating **	M	Issue No.	20 (cont)
LM End	22.02	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_NA0010_118_20_20141103_00008.jpg



Looking west at farmer discing landside 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	11/06/2014 11/06/2014	Richard Willoughby

LM Start	0.00	Rating **	C	Issue No.	3
LM End	1.70	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.296122 °	37.289429 °	
			-120.880723 °	-120.861115 °	
DWR ID	DWR_NA0010_02A_s_2012_3				
Action/Comments					
Keep the crown roadway free of vegetation.					

No Photos

LM Start	0.00	Rating **	A/W	Issue No.	9
LM End	5.30	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.296229 °	37.261893 °	
			-120.880732 °	-120.832390 °	
DWR ID	DWR_NA0010_02A_s_2014_9				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Control vegetation on levee crown.					

Photo 1 of 2 : FA_2014_NA0010_119_9_20141110_00007.jpg



Looking north at levee crown complies with standards.

LM Start	0.00	Rating **	A/W	Issue No.	9 (cont)
LM End	5.30	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : FA_2014_NA0010_119_9_20141103_00006.jpg



Looking north at vegetation on levee crown.

* 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	11/06/2014 11/06/2014	Richard Willoughby

LM Start	0.77	Rating **	U	Issue No.	5
LM End	0.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.286877 °	37.286877 °	
			-120.874222 °	-120.874222 °	
DWR ID	DWR_NA0010_02A_s_2012_5				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: A field investigation report in on file. For more information and pictures see field investigation report #4301.					

Photo 1 of 3 : FA_2014_NA0010_119_5_20141110_00008.jpg



Looking north at erosion on waterward slope. (Fall 2014)

LM Start	0.77	Rating **	U	Issue No.	5 (cont)
LM End	0.77	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA_2014_NA0010_119_5_20141103_00004.jpg



Looking north at large erosion on waterward slope. (Fall 2013)

LM Start	0.77	Rating **	U	Issue No.	5 (cont)
LM End	0.77	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : FA_2014_NA0010_119_5_20141103_00005.jpg



Looking south at large erosion on waterside slope. (Spring 2012)

* 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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	11/06/2014 11/06/2014	Richard Willoughby

LM Start	7.87	Rating **	A/W	Issue No.	3
LM End	13.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.231279 °	37.176608 °	
			-120.811852 °	-120.762619 °	
DWR ID	DWR_NA0010_02B_f_2014_3				
Action/Comments					
Keep the crown roadway free of vegetation. Inspector Comments: Control vegetation growth on levee crown.					

Photo 1 of 2 : FA_2014_NA0010_120_3_20141110_00007.jpg



Looking north at levee crown complies with standards. (Fall 2014)

LM Start	7.87	Rating **	A/W	Issue No.	3 (cont)
LM End	13.45	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_NA0010_120_3_20141103_00001.jpg



Looking north at vegetation on levee crown. (Spring 2014)

LM Start	9.46	Rating **	M	Issue No.	2
LM End	9.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.220223 °	37.220223 °	
			-120.788590 °	-120.788590 °	
DWR ID	DWR_NA0010_02B_f_2014_2				
Action/Comments					
Trim trees to at least five feet above ground level.					

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
--	--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	11/06/2014 11/06/2014	Richard Willoughby

LM Start	12.10	Rating **	A/W	Issue No.	5
LM End	12.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.193504 °	37.193504 °	
			-120.763859 °	-120.763859 °	
DWR ID	DWR_NA0010_02B_s_2012_5				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove wild roses on landside toe.					

Photo 1 of 1 : FA_2014_NA0010_120_5_20141103_00002.jpg



Looking north at wildroses on landward slope.

LM Start	12.25	Rating **	M	Issue No.	1
LM End	12.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.191500 °	37.191500 °	
			-120.764521 °	-120.764521 °	
DWR ID	DWR_NA0010_02B_f_2014_1				
Action/Comments					
Tree or limb Inspector Comments: Fallen tree limbs on landward slope.					

Photo 1 of 2 : FA_2014_NA0010_120_1_20141110_00009.jpg



Looking southwest at tree limb on waterward slope.

LM Start	12.25	Rating **	M	Issue No.	1 (cont)
LM End	12.25	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_NA0010_120_1_20141110_00008.jpg



Looking southwest at tree limb on waterward 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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.10	11/05/2014 11/05/2014	Richard Willoughby

LM Start	0.42	Rating **	M	Issue No.	4
LM End	2.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.106450 °	37.088965 °	
			-120.586024 °	-120.566867 °	
DWR ID	DWR_NA0010_03_f_2014_4				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Control tumble weeds on landward slope.					

Photo 1 of 1 : FA_2014_NA0010_121_4_20141110_00001.jpg



Looking north at tumble weeds on landward slope.

LM Start	2.07	Rating **	M	Issue No.	5
LM End	2.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.089317 °	37.089317 °	
			-120.567480 °	-120.567480 °	
DWR ID	DWR_NA0010_03_f_2014_5				
Action/Comments					
Prunings Inspector Comments: Prunings on landward toe.					

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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	11/03/2014 11/04/2014	Richard Willoughby

LM Start	0.64	Rating **	C	Issue No.	24
LM End	0.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.273445 °	37.273445 °	
			-120.815210 °	-120.815210 °	
DWR ID	DWR_NA0010_05_s_2013_24				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	2.81	Rating **	A/W	Issue No.	3
LM End	2.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.256803 °	37.256835 °	
			-120.785407 °	-120.784528 °	
DWR ID	DWR_NA0010_05_s_2012_3				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 2 : FA_2014_NA0010_123_3_20141103_00002.jpg



Looking south at trimmed trees on landward slope and toe.

LM Start	2.81	Rating **	A/W	Issue No.	3 (cont)
LM End	2.86	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_NA0010_123_3_20141103_00003.jpg



Looking south at dense trees on landside 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	11/03/2014 11/04/2014	Richard Willoughby

LM Start	3.19	Rating **	M	Issue No.	6
LM End	3.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.256635 °	37.256635 °	
			-120.778935 °	-120.778935 °	
DWR ID	DWR_NA0010_05_s_2014_6				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	3.32	Rating **	A/W	Issue No.	1
LM End	3.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.255297 °	37.255297 °	
			-120.777032 °	-120.777032 °	
DWR ID	DWR_NA0010_05_s_2012_1				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	3.54	Rating **	M	Issue No.	2
LM End	3.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		37.255192 °	37.255192 °	
			-120.773595 °	-120.773595 °	
DWR ID	DWR_NA0010_05_s_2012_2				
Action/Comments					
Tree or limb Inspector Comments: Downed tree limb on landside slope and toe.					

Photo 1 of 1 : FA_2014_NA0010_123_2_20141103_00001.jpg



Looking south at down tree limb on landside slope and toe.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	11/03/2014 11/04/2014	Richard Willoughby

LM Start	4.99	Rating **	C	Issue No.	12
LM End	4.99	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.240732 °	37.240732 °	
			-120.749512 °	-120.749512 °	
DWR ID	DWR_NA0010_05_f_2012_12				
Action/Comments					
Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: LMA corrected the site.					

No Photos

LM Start	6.50	Rating **	M	Issue No.	15
LM End	6.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.230497 °	37.230497 °	
			-120.727263 °	-120.727263 °	
DWR ID	DWR_NA0010_05_s_2012_15				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	8.06	Rating **	M	Issue No.	4
LM End	8.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.213600 °	37.213600 °	
			-120.706630 °	-120.706630 °	
DWR ID	DWR_NA0010_05_s_2012_4				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	11/03/2014 11/04/2014	Richard Willoughby

LM Start	8.83	Rating **	M	Issue No.	5
LM End	8.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.205778 °	37.205778 °	
			-120.696843 °	-120.696843 °	
DWR ID	DWR_NA0010_05_s_2012_5				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	29.58	Rating **	M	Issue No.	171
LM End	29.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.020272 °	37.018712 °	
			-120.433737 °	-120.432682 °	
DWR ID	DWR_NA0010_05_s_2014_171				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Waterside erosion caused by livestock.					

Photo 1 of 3 : FA_2014_NA0010_123_171_20141103_00012.jpg



Looking south at erosion caused by livestock on landside slope.

LM Start	29.58	Rating **	M	Issue No.	171 (cont)
LM End	29.70	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA_2014_NA0010_123_171_20141103_00013.jpg



Looking south at livestock erosion on landward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.85	11/03/2014 11/04/2014	Richard Willoughby

LM Start	29.58	Rating **	M	Issue No.	171 (cont)
LM End	29.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.020272 °	37.018712 °	
			-120.433737 °	-120.432682 °	
DWR ID	DWR_NA0010_05_s_2014_171				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Waterside erosion caused by livestock.					

Photo 3 of 3 : FA_2014_NA0010_123_171_20141103_00014.jpg



Looking east at livestock eroision on landward slope.

LM Start	29.76	Rating **	A/W	Issue No.	21
LM End	31.66	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.017953 °	36.996773 °	
			-120.432132 °	-120.410739 °	
DWR ID	DWR_NA0010_05_f_2012_21				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	29.80	Rating **	M	Issue No.	16
LM End	29.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.017540 °	37.017540 °	
			-120.431955 °	-120.431955 °	
DWR ID	DWR_NA0010_05_s_2012_16				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.31	11/05/2014 11/06/2014	Richard Willoughby

LM Start	1.90	Rating **	M	Issue No.	125
LM End	1.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.259527 °	37.259527 °	
			-120.803300 °	-120.803300 °	
DWR ID	DWR_NA0010_06_s_2012_125				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	4.72	Rating **	M	Issue No.	10
LM End	4.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.243540 °	37.243540 °	
			-120.760782 °	-120.760782 °	
DWR ID	DWR_NA0010_06_s_2012_10				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Rodent holes next to fence post on landward slope.					

Photo 1 of 2 : FA_2014_NA0010_124_10_20141103_00010.jpg



Looking at rodent hole along fence line on landward slope.

LM Start	4.72	Rating **	M	Issue No.	10 (cont)
LM End	4.72	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_NA0010_124_10_20141103_00011.jpg



Looking at typical rodent holes on landward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.31	11/05/2014 11/06/2014	Richard Willoughby

LM Start	5.83	Rating **	A/W	Issue No.	9
LM End	5.83	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.238355 °	37.238355 °	
			-120.742677 °	-120.742677 °	
DWR ID	DWR_NA0010_06_s_2012_9				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Levee damage caused by motorcylce traffic.					

Photo 1 of 2 : FA_2014_NA0010_124_9_20141110_00014.jpg



Looking northwest damage slope corrected.

LM Start	5.83	Rating **	A/W	Issue No.	9 (cont)
LM End	5.83	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_NA0010_124_9_20141103_00009.jpg



Looking at slope damage cause by vehicle traffic on landward slope.

LM Start	6.05	Rating **	U	Issue No.	65
LM End	6.05	Issue Type +	Ma	Location *	LS
Category	Interior Drainage & Piping Systems		GPS Latitude/Longitude		
			Start	End	
Item	Erosion Areas		37.236372 °	37.236372 °	
			-120.739706 °	-120.739706 °	
DWR ID	DWR_NA0010_06_f_2014_65				
Action/Comments					
Inspector Comments: Erosion on right side of drain structure headwall at landward toe.					

Photo 1 of 2 : FA_2014_NA0010_124_65_20141110_00015.jpg



Looking northwest at erosion around headwall of drainage structure on landward 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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.31	11/05/2014 11/06/2014	Richard Willoughby

LM Start	6.05	Rating **	U	Issue No.	65 (cont)
LM End	6.05	Issue Type +	Ma	Location *	LS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Erosion Areas			37.236372 °	37.236372 °
				-120.739706 °	-120.739706 °
DWR ID	DWR_NA0010_06_f_2014_65				
Action/Comments					
Inspector Comments: Erosion on right side of drain structure headwall at landward toe.					

Photo 2 of 2 : FA_2014_NA0010_124_65_20141110_00016.jpg



Looking south erosion around headwall of drainage structure on landward toe.

LM Start	6.12	Rating **	M	Issue No.	22
LM End	6.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.235777 °	37.235777 °
				-120.738598 °	-120.738598 °
DWR ID	DWR_NA0010_06_s_2012_22				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	6.15	Rating **	M	Issue No.	21
LM End	6.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.235623 °	37.235623 °
				-120.738017 °	-120.738017 °
DWR ID	DWR_NA0010_06_s_2012_21				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.31	11/05/2014 11/06/2014	Richard Willoughby

LM Start	7.17	Rating **	M	Issue No.	7
LM End	7.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.226675 °	37.226675 °	
			-120.724498 °	-120.724498 °	
DWR ID	DWR_NA0010_06_s_2012_7				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	9.81	Rating **	M	Issue No.	6
LM End	11.03	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		37.200697 °	37.188106 °	
			-120.692927 °	-120.677684 °	
DWR ID	DWR_NA0010_06_s_2012_6				
Action/Comments					
Repair depressions or ruts in the crown or slope. Inspector Comments: Levee crown should be regraded due to excessive rutting.					

No Photos

LM Start	11.57	Rating **	M	Issue No.	14
LM End	11.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.186189 °	37.186189 °	
			-120.668476 °	-120.668476 °	
DWR ID	DWR_NA0010_06_s_2014_14				
Action/Comments					
Trim trees to at least five feet above ground level. Inspector Comments: Tree is located along Sandy Mush Rd. on waterward slope.					

Photo 1 of 1 : FA_2014_NA0010_124_14_20141103_00012.jpg



Looking east at tree on waterward 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.31	11/05/2014 11/06/2014	Richard Willoughby

LM Start	15.55	Rating **	M	Issue No.	124
LM End	15.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.158920 °	37.157217 °	
			-120.620232 °	-120.618915 °	
DWR ID	DWR_NA0010_06_s_2012_124				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	16.98	Rating **	M	Issue No.	63
LM End	19.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.144129 °	37.113644 °	
			-120.602479 °	-120.588271 °	
DWR ID	DWR_NA0010_06_f_2014_63				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Control tumble weeds on landward and waterward slopes.					

Photo 1 of 1 : FA_2014_NA0010_124_63_20141110_00018.jpg



Looking north at tumble weeds on levee slopes.

LM Start	16.98	Rating **	U	Issue No.	64
LM End	18.89	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.144128 °	37.119569 °	
			-120.602479 °	-120.587353 °	
DWR ID	DWR_NA0010_06_f_2014_64				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dense tumble weeds on waterward slope.					

Photo 1 of 1 : FA_2014_NA0010_124_64_20141110_00017.jpg



Looking northeast at dense tumble weeds on waterward 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.31	11/05/2014 11/06/2014	Richard Willoughby

LM Start	22.90	Rating **	M	Issue No.	8
LM End	22.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.088663 °	37.087968 °	
			-120.538193 °	-120.537485 °	
DWR ID	DWR_NA0010_06_s_2012_8				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	24.50	Rating **	M	Issue No.	5
LM End	24.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.071198 °		
			-120.519220 °		
DWR ID	DWR_NA0010_06_s_2012_5				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Landside erosion caused by livestock.					

Photo 1 of 2 : FA_2014_NA0010_124_5_20141103_00007.jpg



Looking north at livestock erosion on landward slope.

LM Start	24.50	Rating **	M	Issue No.	5 (cont)
LM End	24.93	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_NA0010_124_5_20141103_00008.jpg



Looking north at livestock erosion on landside 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.31	11/05/2014 11/06/2014	Richard Willoughby

LM Start	27.56	Rating **	M	Issue No.	3
LM End	27.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.036955 °	37.032887 °	
			-120.484395 °	-120.481225 °	
DWR ID	DWR_NA0010_06_s_2012_3				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Landside erosion caused by livestock.					

Photo 1 of 4 : FA_2014_NA0010_124_3_20141103_00003.jpg



Looking north at livestock erosion on landside shoulder and slope.

Photo 2 of 4 : FA_2014_NA0010_124_3_20141103_00004.jpg

LM Start	27.56	Rating **	M	Issue No.	3 (cont)
LM End	27.87	Issue Type +	Ma	Location *	LS



Looking south at livestock erosion on landward slope. (Fall 2013)

Photo 3 of 4 : FA_2014_NA0010_124_3_20141103_00005.jpg

LM Start	27.56	Rating **	M	Issue No.	3 (cont)
LM End	27.87	Issue Type +	Ma	Location *	LS



Looking north at livestock erosion on landward slope. (Spring 2013)

* 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.31	11/05/2014 11/06/2014	Richard Willoughby

LM Start	27.56	Rating **	M	Issue No.	3 (cont)
LM End	27.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.036955 °	37.032887 °	
			-120.484395 °	-120.481225 °	
DWR ID	DWR_NA0010_06_s_2012_3				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Landside erosion caused by livestock.					

Photo 4 of 4 : FA_2014_NA0010_124_3_20141103_00006.jpg



Looking south at livestock erosion on landside shoulder and slope.

LM Start	28.32	Rating **	M	Issue No.	19
LM End	28.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.029965 °	37.030102 °	
			-120.474483 °	-120.469122 °	
DWR ID	DWR_NA0010_06_s_2012_19				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	31.01	Rating **	M	Issue No.	2
LM End	31.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.017955 °	37.017955 °	
			-120.435017 °	-120.435017 °	
DWR ID	DWR_NA0010_06_s_2012_2				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 2 : FA_2014_NA0010_124_2_20141103_00001.jpg



Looking west at rodent holes on landside slope and toe near fence line.

* 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
--	--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.31	11/05/2014 11/06/2014	Richard Willoughby

LM Start	31.01	Rating **	M	Issue No.	2 (cont)
LM End	31.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.017955 °	37.017955 °	
			-120.435017 °	-120.435017 °	
DWR ID	DWR_NA0010_06_s_2012_2				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 2 of 2 : FA_2014_NA0010_124_2_20141103_00002.jpg



Looking at typical rodent hole on landside slope.

LM Start	35.27	Rating **	A/W	Issue No.	1
LM End	36.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		36.974650 °	36.974430 °	
			-120.383022 °	-120.367090 °	
DWR ID	DWR_NA0010_06_s_2012_1				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	11/03/2014 11/03/2014	Richard Willoughby

LM Start	0.11	Rating **	C	Issue No.	30
LM End	2.57	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.256091 °	37.255397 °
				-120.770417 °	-120.735555 °
DWR ID	DWR_NA0010_07_s_2012_30				
Action/Comments					
Add appropriate material and re-grade the levee to bring the crown above the design elevation.					

No Photos

LM Start	0.50	Rating **	A/W	Issue No.	29
LM End	0.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.258722 °	37.258722 °
				-120.764867 °	-120.764867 °
DWR ID	DWR_NA0010_07_s_2012_29				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	1.22	Rating **	M	Issue No.	1
LM End	1.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.264387 °	37.264387 °
				-120.755805 °	-120.755805 °
DWR ID	DWR_NA0010_07_f_2012_1				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 2 : FA_2014_NA0010_125_1_20141103_00001.jpg



Looking north at several rodent holes on landward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	11/03/2014 11/03/2014	Richard Willoughby

LM Start	1.22	Rating **	M	Issue No.	1 (cont)
LM End	1.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.264387 °	37.264387 °
				-120.755805 °	-120.755805 °
DWR ID	DWR_NA0010_07_f_2012_1				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 2 of 2 : FA_2014_NA0010_125_1_20141103_00002.jpg



Looking at east at active rodent holes on landside berm.

LM Start	1.25	Rating **	M	Issue No.	11
LM End	1.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.264367 °	37.264367 °
				-120.755218 °	-120.755218 °
DWR ID	DWR_NA0010_07_f_2014_11				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Slope damage cause by livestock also rodent activity noted.					

Photo 1 of 1 : FA_2014_NA0010_125_11_20141110_00016.jpg



Looking west at slope damage and rodent activity on landward slope.

LM Start	1.51	Rating **	M	Issue No.	3
LM End	1.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.263930 °	37.263930 °
				-120.750680 °	-120.750680 °
DWR ID	DWR_NA0010_07_s_2012_3				
Action/Comments					
Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: Erosion on landward slope has been repaired by district. Landward toe erosion not repaired.					

Photo 1 of 4 : FA_2014_NA0010_125_3_20141103_00003.jpg



Looking northeast at landside slope damaged by livestock.

* 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
--	--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	11/03/2014 11/03/2014	Richard Willoughby

LM Start	1.51	Rating **	M	Issue No.	3 (cont)
LM End	1.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.263930 °	37.263930 °	
			-120.750680 °	-120.750680 °	
DWR ID	DWR_NA0010_07_s_2012_3				
Action/Comments					
Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: Erosion on landward slope has been repaired by district. Landward toe erosion not repaired.					

Photo 2 of 4 : FA_2014_NA0010_125_3_20141103_00004.jpg



Looking south at landward slope.

LM Start	1.51	Rating **	M	Issue No.	3 (cont)
LM End	1.51	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : FA_2014_NA0010_125_3_20141103_00005.jpg



Looking southeast at damage on landward toe.(Spring 2013)

LM Start	1.51	Rating **	M	Issue No.	3 (cont)
LM End	1.51	Issue Type +	Ma	Location *	LS

Photo 4 of 4 : FA_2014_NA0010_125_3_20141103_00006.jpg



Looking southeast at landside slope and toe damage by livestock.

* 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	11/03/2014 11/03/2014	Richard Willoughby

LM Start	1.52	Rating **	M	Issue No.	6
LM End	1.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.263885 °	37.263885 °	
			-120.750527 °	-120.750527 °	
DWR ID	DWR_NA0010_07_s_2014_6				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	1.71	Rating **	M	Issue No.	5
LM End	1.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.262570 °	37.262467 °	
			-120.747453 °	-120.747180 °	
DWR ID	DWR_NA0010_07_s_2013_5				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	1.86	Rating **	C	Issue No.	31
LM End	1.86	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.261670 °	37.261670 °	
			-120.745010 °	-120.745010 °	
DWR ID	DWR_NA0010_07_s_2012_31				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Large rodent holes on crown of levee and landside shoulder of 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
--	--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	11/03/2014 11/03/2014	Richard Willoughby

LM Start	2.09	Rating **	M	Issue No.	12
LM End	2.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.259187 °	37.259187 °
				-120.742551 °	-120.742551 °
DWR ID	DWR_NA0010_07_f_2014_12				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Rodent activity noted next to fence post.					

Photo 1 of 1 : FA_2014_NA0010_125_12_20141110_00017.jpg



Looking east at rodent hole next to fence post on landward shoulder.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	11/04/2014 11/04/2014	Richard Willoughby

LM Start	0.00	Rating **	A/W	Issue No.	28
LM End	2.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.253178 °	37.256802 °	
			-120.768513 °	-120.740452 °	
DWR ID	DWR_NA0010_08_s_2012_28				
Action/Comments					
Keep the crown roadway free of vegetation.					

Photo 1 of 2 : FA_2014_NA0010_126_28_20141110_00012.jpg



Looking west at levee crown in complies with standards.

LM Start	0.00	Rating **	A/W	Issue No.	28 (cont)
LM End	2.22	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_NA0010_126_28_20141103_00008.jpg



Looking west at vegetation on levee crown.

LM Start	1.19	Rating **	M	Issue No.	2
LM End	1.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.263183 °	37.263182 °	
			-120.755637 °	-120.755650 °	
DWR ID	DWR_NA0010_08_s_2012_2				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	11/04/2014 11/04/2014	Richard Willoughby

LM Start	1.38	Rating **	M	Issue No.	8
LM End	1.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.263175 °	37.263175 °	
			-120.752307 °	-120.752307 °	
DWR ID	DWR_NA0010_08_s_2013_8				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_NA0010_126_8_20141103_00007.jpg



Looking west at rodent holes on landward slope.

LM Start	1.61	Rating **	M	Issue No.	1
LM End	1.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.261842 °	37.261842 °	
			-120.748510 °	-120.748510 °	
DWR ID	DWR_NA0010_08_s_2012_1				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	2.07	Rating **	M	Issue No.	7
LM End	2.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.258063 °	37.257688 °	
			-120.742460 °	-120.741573 °	
DWR ID	DWR_NA0010_08_s_2012_7				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Several rodent holes were noted on landside slope near drainage pipe.					

Photo 1 of 3 : FA_2014_NA0010_126_7_20141103_00004.jpg



Looking at typical rodent hole along the section.

* 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	11/04/2014 11/04/2014	Richard Willoughby

LM Start	2.07	Rating **	M	Issue No.	7 (cont)
LM End	2.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.258063 °	37.257688 °	
			-120.742460 °	-120.741573 °	
DWR ID	DWR_NA0010_08_s_2012_7				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Several rodent holes were noted on landside slope near drainage pipe.					

Photo 2 of 3 : FA_2014_NA0010_126_7_20141103_00005.jpg



Looking south at several rodent holes on landward slope.

LM Start	2.07	Rating **	M	Issue No.	7 (cont)
LM End	2.12	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : FA_2014_NA0010_126_7_20141103_00006.jpg



Looking at typical rodent hole on landside slope near headwall.

LM Start	3.40	Rating **	M	Issue No.	3
LM End	3.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.253052 °	37.253600 °	
			-120.722647 °	-120.720198 °	
DWR ID	DWR_NA0010_08_s_2012_3				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.87	11/04/2014 11/04/2014	Richard Willoughby

LM Start	0.87	Rating **	A	Issue No.	3
LM End	0.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.220039 °	37.220039 °	
			-120.698444 °	-120.698444 °	
DWR ID	DWR_NA0010_09_f_2014_3				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Levee is well maintained.					

Photo 1 of 3 : FA_2014_NA0010_127_3_20141110_00001.jpg



Looking south at levee crown in compliance with standards.

LM Start	0.87	Rating **	A	Issue No.	3 (cont)
LM End	0.87	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : FA_2014_NA0010_127_3_20141110_00002.jpg



Looking south at waterward slope in compliance with standards.

LM Start	0.87	Rating **	A	Issue No.	3 (cont)
LM End	0.87	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : FA_2014_NA0010_127_3_20141110_00003.jpg



Looking south at landward slope in compliance with standards.

* 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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass	Left	0.80	11/04/2014 11/04/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.217971 °	37.217971 °	
			-120.711415 °	-120.711415 °	
DWR ID	DWR_NA0010_10_f_2014_2				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Levee is well maintained.					

Photo 1 of 2 : FA_2014_NA0010_128_2_20141110_00001.jpg



Looking waterward slope in compliance with standards.

LM Start	0.00	Rating **	A	Issue No.	2 (cont)
LM End	0.82	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_NA0010_128_2_20141110_00002.jpg



Looking at landward slope in compliance with standards.

* 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	11/06/2014 11/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	10
LM End	3.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation			° 37.202309 °	
				° -120.695230 °	
DWR ID	DWR_NA0010_11_f_2014_10				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: No maintenance problems noted.					

Photo 1 of 2 : FA_2014_NA0010_129_10_20141110_00002.jpg



Looking at landward slope in compliance with standards.

LM Start	0.00	Rating **	A	Issue No.	10 (cont)
LM End	3.31	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_NA0010_129_10_20141110_00004.jpg



Looking at waterward slope in compliance with standards.

LM Start	0.67	Rating **	A	Issue No.	2
LM End	0.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Repair Gates		37.202725 °	37.202725 °	
			-120.743028 °	-120.743028 °	
DWR ID	DWR_NA0010_11_f_2013_2				
Action/Comments					
Inspector Comments: Bottom hinge broken on gate across levee crown.					

Photo 1 of 2 : FA_2014_NA0010_129_2_20141103_00001.jpg



Looking at bottom hinge broken on gate across levee crown.

* 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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	11/06/2014 11/06/2014	Richard Willoughby

LM Start	0.67	Rating **	A	Issue No.	2 (cont)
LM End	0.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Repair Gates		37.202725 °	37.202725 °	
			-120.743028 °	-120.743028 °	
DWR ID	DWR_NA0010_11_f_2013_2				
Action/Comments					
Inspector Comments: Bottom hinge broken on gate across levee crown.					

Photo 2 of 2 : FA_2014_NA0010_129_2_20141110_00005.jpg



Looking at gate in compliance with standards. (Fall 2014)

LM Start	1.77	Rating **	M	Issue No.	1
LM End	1.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.202743 °	37.202743 °	
			-120.723187 °	-120.723187 °	
DWR ID	DWR_NA0010_11_s_2012_1				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	11/06/2014 11/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	10
LM End	3.33	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation			°	°
				°	°
DWR ID	DWR_NA0010_12_f_2014_10				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA_2014_NA0010_130_10_20141110_00001.jpg



Looking at typical of levee in compliance with standards.

LM Start	2.33	Rating **	M	Issue No.	1
LM End	2.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.200907	°	37.200907
			-120.712978	°	-120.712978
DWR ID	DWR_NA0010_12_s_2012_1				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.27	11/04/2014 11/04/2014	Richard Willoughby

LM Start	0.14	Rating **	M	Issue No.	3
LM End	0.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.035697 °	37.035697 °	
			-120.441197 °	-120.441197 °	
DWR ID	DWR_NA0010_13_s_2012_3				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	0.30	Rating **	M	Issue No.	2
LM End	1.25	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		37.037893 °	37.046269 °	
			-120.440373 °	-120.428350 °	
DWR ID	DWR_NA0010_13_f_2012_2				
Action/Comments					
Add appropriate material and re-grade the levee to bring the crown above the design elevation. Inspector Comments: Control vegetation on levee crown.					

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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	11/04/2014 11/04/2014	Richard Willoughby

LM Start	0.00	Rating **	A/W	Issue No.	2
LM End	1.25	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		37.032379 °	37.045404 °	
			-120.441265 °	-120.427749 °	
DWR ID	DWR_NA0010_14_f_2012_2				
Action/Comments					
Add appropriate material and re-grade the levee to bring the crown above the design elevation. Inspector Comments: Control vegetation on levee crown.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	3
LM End	1.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.032401 °	37.032401 °	
			-120.441247 °	-120.441247 °	
DWR ID	DWR_NA0010_14_f_2014_3				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA_2014_NA0010_132_3_20141110_00001.jpg



Looking at type view of levee in complies with standards.

* 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	11/04/2014 11/04/2014	Richard Willoughby

LM Start	0.00	Rating **	A/W	Issue No.	11
LM End	1.99	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		36.996547 °	36.996587 °	
			-120.410220 °	-120.374503 °	
DWR ID	DWR_NA0010_15_s_2012_11				
Action/Comments					
Add appropriate material and re-grade the levee to bring the crown above the design elevation. Inspector Comments: Control vegetation on levee crown.					

Photo 1 of 2 : FA_2014_NA0010_133_11_20141110_00002.jpg



Looking east at typical view of levee in complies with standards

Photo 2 of 2 : FA_2014_NA0010_133_11_20141103_00001.jpg



Looking east at vegetation on levee crown.

LM Start	0.00	Rating **	A/W	Issue No.	11 (cont)
LM End	1.99	Issue Type +	Ma	Location *	CR

* 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	11/04/2014 11/04/2014	Richard Willoughby

LM Start	0.00	Rating **	A/W	Issue No.	14
LM End	1.98	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		36.995388 °	36.995507 °	
			-120.408738 °	-120.373592 °	
DWR ID	DWR_NA0010_16_s_2012_14				
Action/Comments					
Add appropriate material and re-grade the levee to bring the crown above the design elevation. Inspector Comments: Control vegetation on levee crown.					

Photo 1 of 1 : FA_2014_NA0010_134_14_20141103_00001.jpg



Looking west at the properly maintained levee crown.

LM Start	1.69	Rating **	M	Issue No.	4
LM End	1.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		36.995503 °	36.995503 °	
			-120.378579 °	-120.378579 °	
DWR ID	DWR_NA0010_16_s_2014_4				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	1.77	Rating **	A/W	Issue No.	3
LM End	1.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		36.995488 °	36.995488 °	
			-120.377152 °	-120.377152 °	
DWR ID	DWR_NA0010_16_s_2012_3				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.96	11/04/2014 11/04/2014	Richard Willoughby

LM Start	1.78	Rating **	M	Issue No.	2
LM End	1.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		36.995487 °	36.995487 °	
			-120.377054 °	-120.377054 °	
DWR ID	DWR_NA0010_16_f_2014_2				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Large rodent holes on landward slope.					

Photo 1 of 2 : FA_2014_NA0010_134_2_20141110_00002.jpg



Looking at large rodent holes on landward slope.

LM Start	1.78	Rating **	M	Issue No.	2 (cont)
LM End	1.78	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_NA0010_134_2_20141110_00003.jpg



Looking southwest at several rodent holes on landward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	11/05/2014 11/05/2014	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	11
LM End	16.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation			°	°
DWR ID	DWR_NA0010_17_f_2014_11				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Tumble weeds on landward slope.					

Photo 1 of 1 : FA_2014_NA0010_135_11_20141110_00004.jpg



Looking south at typical view of tumble weeds on landward slope.

LM Start	0.00	Rating **	M	Issue No.	12
LM End	16.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation			°	°
DWR ID	DWR_NA0010_17_f_2014_12				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Tumble weeds on waterward slope shall be controlled.					

Photo 1 of 1 : FA_2014_NA0010_135_12_20141110_00003.jpg



Looking south at typical view of tumble weeds on waterward slope.

LM Start	0.00	Rating **	A	Issue No.	7
LM End	5.77	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		36.976430	°	36.908282
			-120.374748	°	-120.330995
DWR ID	DWR_NA0010_17_s_2012_7				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA_2014_NA0010_135_7_20141110_00005.jpg



Looking south at typical view of levee crown in complies with standards.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	11/05/2014 11/05/2014	Richard Willoughby

LM Start	5.75	Rating **	M	Issue No.	8
LM End	5.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		36.908605 °	36.906507 °	
			-120.331112 °	-120.330353 °	
DWR ID	DWR_NA0010_17_s_2012_8				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_NA0010_135_8_20141103_00002.jpg



Looking at several rodent holes on landside slope.

LM Start	6.51	Rating **	M	Issue No.	4
LM End	6.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		36.898124 °	36.896943 °	
			-120.326714 °	-120.326133 °	
DWR ID	DWR_NA0010_17_s_2012_4				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	7.27	Rating **	M	Issue No.	5
LM End	7.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		36.887869 °	36.886341 °	
			-120.321697 °	-120.320940 °	
DWR ID	DWR_NA0010_17_s_2012_5				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	11/05/2014 11/05/2014	Richard Willoughby

LM Start	1.43	Rating **	M	Issue No.	7
LM End	1.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		36.956163 °	36.956163 °	
			-120.353672 °	-120.353672 °	
DWR ID	DWR_NA0010_18_s_2014_7				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	6.51	Rating **	M	Issue No.	9
LM End	6.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		36.886767 °	36.886767 °	
			-120.323482 °	-120.323482 °	
DWR ID	DWR_NA0010_18_f_2014_9				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	10.95	Rating **	M	Issue No.	1
LM End	15.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		36.828100 °	36.774067 °	
			-120.300105 °	-120.285532 °	
DWR ID	DWR_NA0010_18_s_2012_1				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Control tumble weed on landside and waterside shoulder and slope.					

Photo 1 of 1 : FA_2014_NA0010_137_1_20141110_00003.jpg



Looking at typical view of tumble weeds on levee slopes.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.35	11/05/2014 11/05/2014	Richard Willoughby

LM Start	13.55	Rating **	M	Issue No.	3
LM End	15.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		36.792861 °	36.776058 °	
			-120.304907 °	-120.287111 °	
DWR ID	DWR_NA0010_18_f_2012_3				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	11/04/2014 11/04/2014	Richard Willoughby

LM Start	0.53	Rating **	M	Issue No.	21
LM End	0.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.213006 °	37.213006 °	
			-120.698019 °	-120.698019 °	
DWR ID	DWR_NA0010_22A_f_2014_21				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dense brush on landward slope.					

Photo 1 of 1 : FA_2014_NA0010_138_21_20141110_00014.jpg



Looking south at dense brushes on landward slope.

LM Start	0.68	Rating **	A/W	Issue No.	8
LM End	0.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.215360 °	37.218128 °	
			-120.698078 °	-120.697457 °	
DWR ID	DWR_NA0010_22A_s_2012_8				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	0.96	Rating **	M	Issue No.	22
LM End	0.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.219137 °	37.219137 °	
			-120.697857 °	-120.697857 °	
DWR ID	DWR_NA0010_22A_f_2014_22				
Action/Comments					
Repair slope instability. Inspector Comments: Irrigation district excavated waterward slope.					

Photo 1 of 3 : FA_2014_NA0010_138_22_20141110_00016.jpg



Looking south at excavated waterward 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	11/04/2014 11/04/2014	Richard Willoughby

LM Start	0.96	Rating **	M	Issue No.	22 (cont)
LM End	0.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.219137 °	37.219137 °	
			-120.697857 °	-120.697857 °	
DWR ID	DWR_NA0010_22A_f_2014_22				
Action/Comments					
Repair slope instability. Inspector Comments: Irrigation district excavated waterward slope.					

Photo 2 of 3 : FA_2014_NA0010_138_22_20141110_00017.jpg



Looking southeast at excavated waterward slope.

LM Start	0.96	Rating **	M	Issue No.	22 (cont)
LM End	0.96	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : FA_2014_NA0010_138_22_20141110_00018.jpg



Looking north at excavated waterward slope.

LM Start	2.65	Rating **	C	Issue No.	1
LM End	3.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.242563 °	37.253465 °	
			-120.706435 °	-120.717952 °	
DWR ID	DWR_NA0010_22A_s_2012_1				
Action/Comments					
Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: There are several slope stability issues along this channel cause by animals that need to be monitored. LMA repaired erosion sites along waterward slope.					

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
--	--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	11/04/2014 11/04/2014	Richard Willoughby

LM Start	2.87	Rating **	M	Issue No.	15
LM End	3.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.245431 °	37.247343 °	
			-120.707990 °	-120.710362 °	
DWR ID	DWR_NA0010_22A_s_2014_15				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	2.88	Rating **	C	Issue No.	16
LM End	2.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.245537 °	37.245537 °	
			-120.708120 °	-120.708120 °	
DWR ID	DWR_NA0010_22A_s_2014_16				
Action/Comments					
Repair the levee slope damaged by livestock and prevent large animal access.					

No Photos

LM Start	2.96	Rating **	C	Issue No.	17
LM End	2.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.246417 °	37.246417 °	
			-120.709206 °	-120.709206 °	
DWR ID	DWR_NA0010_22A_s_2014_17				
Action/Comments					
Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: Several sites repaired in compliance with standards.					

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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	11/04/2014 11/04/2014	Richard Willoughby

LM Start	3.14	Rating **	A/W	Issue No.	2
LM End	3.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.248208 °	37.248208 °	
			-120.711500 °	-120.711500 °	
DWR ID	DWR_NA0010_22A_s_2012_2				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

No Photos

LM Start	3.47	Rating **	C	Issue No.	18
LM End	3.47	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.251630 °	37.251630 °	
			-120.715682 °	-120.715682 °	
DWR ID	DWR_NA0010_22A_s_2014_18				
Action/Comments					
Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: LMA repaired damage sites.					

No Photos

LM Start	3.54	Rating **	C	Issue No.	19
LM End	3.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.252410 °	37.253465 °	
			-120.716658 °	-120.717974 °	
DWR ID	DWR_NA0010_22A_s_2014_19				
Action/Comments					
Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: Damaged sites repaired.					

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
--	--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	11/04/2014 11/04/2014	Richard Willoughby

LM Start	3.79	Rating **	M	Issue No.	11
LM End	3.79	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.254923 °	37.254923 °	
			-120.719769 °	-120.719769 °	
DWR ID	DWR_NA0010_22A_s_2014_11				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	4.25	Rating **	C	Issue No.	52
LM End	4.32	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		37.259822 °	37.259823 °	
			-120.725557 °	-120.725558 °	
DWR ID	DWR_NA0010_22A_s_2012_52				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

No Photos

LM Start	4.80	Rating **	M	Issue No.	5
LM End	4.86	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.265180 °	37.265743 °	
			-120.732745 °	-120.733602 °	
DWR ID	DWR_NA0010_22A_s_2012_5				
Action/Comments					
Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: Erosion caused by livestock on waterside toe.					

Photo 1 of 1 : FA_2014_NA0010_138_5_20141103_00007.jpg



Looking north at waterside erosion from livestock.

* 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	11/04/2014 11/04/2014	Richard Willoughby

LM Start	4.81	Rating **	A/W	Issue No.	10
LM End	4.84	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		37.265330 °	37.265705 °	
			-120.732960 °	-120.733553 °	
DWR ID	DWR_NA0010_22A_s_2012_10				
Action/Comments					
Add appropriate gravel or road base. Grade and compact.					

No Photos

LM Start	5.03	Rating **	M	Issue No.	12
LM End	5.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.267271 °	37.267271 °	
			-120.736067 °	-120.736067 °	
DWR ID	DWR_NA0010_22A_s_2014_12				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Slope damage caused by animal traffic.					

Photo 1 of 1 : FA_2014_NA0010_138_12_20141103_00011.jpg



Looking south at slope damage cause by animal traffic on waterside slope.

LM Start	5.05	Rating **	M	Issue No.	4
LM End	5.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.267516 °	37.267516 °	
			-120.736401 °	-120.736401 °	
DWR ID	DWR_NA0010_22A_f_2013_4				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Erosion caused by animal traffic.					

Photo 1 of 2 : FA_2014_NA0010_138_4_20141103_00005.jpg



Looking southeast at livestock erosion on waterward 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
--	--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.51	11/04/2014 11/04/2014	Richard Willoughby

LM Start	5.05	Rating **	M	Issue No.	4 (cont)
LM End	5.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		37.267516 °	37.267516 °	
			-120.736401 °	-120.736401 °	
DWR ID	DWR_NA0010_22A_f_2013_4				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Erosion caused by animal traffic.					

Photo 2 of 2 : FA_2014_NA0010_138_4_20141103_00006.jpg



Looking south livestock erosion on waterward toe.

LM Start	5.07	Rating **	C	Issue No.	9
LM End	5.10	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		37.267682 °	37.267967 °	
			-120.736597 °	-120.736913 °	
DWR ID	DWR_NA0010_22A_s_2012_9				
Action/Comments					
Repair depressions or ruts in the crown or slope. Inspector Comments: Minor rutting on levee crown.					

No Photos

LM Start	5.09	Rating **	C	Issue No.	57
LM End	5.09	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		37.267903 °	37.267903 °	
			-120.736878 °	-120.736878 °	
DWR ID	DWR_NA0010_22A_s_2012_57				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	11/05/2014 11/05/2014	Richard Willoughby

LM Start	1.16	Rating **	M	Issue No.	1
LM End	9.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		36.772832 °	36.807632 °	
			-120.265742 °	-120.168834 °	
DWR ID	DWR_NA0010_23_s_2012_1				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Control tumble weeds on landward slope.					

No Photos

LM Start	1.19	Rating **	M	Issue No.	28
LM End	9.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		36.772942 °	36.807626 °	
			-120.265129 °	-120.168831 °	
DWR ID	DWR_NA0010_23_f_2014_28				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Control tumble weeds on waterward slope.					

No Photos

LM Start	1.21	Rating **	M	Issue No.	6
LM End	1.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		36.772973 °	36.772973 °	
			-120.264768 °	-120.264768 °	
DWR ID	DWR_NA0010_23_s_2013_6				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

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
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	11/05/2014 11/05/2014	Richard Willoughby

LM Start	1.53	Rating **	M	Issue No.	29
LM End	1.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		36.772041 °	36.772041 °	
			-120.259549 °	-120.259549 °	
DWR ID	DWR_NA0010_23_f_2014_29				
Action/Comments					
Repair slope instability. Inspector Comments: Trench at landward toe. Trench is ten to twelve inches wide and twenty feet long.					

Photo 1 of 2 : FA_2014_NA0010_139_29_20141110_00018.jpg



Looking south at trench at landward toe.

LM Start	1.53	Rating **	M	Issue No.	29 (cont)
LM End	1.53	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_NA0010_139_29_20141110_00019.jpg



Looking north at trench at landward toe.

LM Start	2.13	Rating **	M	Issue No.	16
LM End	2.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		36.775507 °	36.774423 °	
			-120.251672 °	-120.246993 °	
DWR ID	DWR_NA0010_23_s_2013_16				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Several damaged sites within this reach. Damage caused by vehicle traffic.					

Photo 1 of 1 : FA_2014_NA0010_139_16_20141103_00015.jpg



Looking south at waterward slope damaged by vehicle traffic

* 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
--	--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	11/05/2014 11/05/2014	Richard Willoughby

LM Start	2.85	Rating **	M	Issue No.	15
LM End	2.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		36.771537 °	36.771537 °	
			-120.240917 °	-120.240917 °	
DWR ID	DWR_NA0010_23_s_2012_15				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : FA_2014_NA0010_139_15_20141103_00014.jpg



Looking south at elderberry on landside toe and berm.

LM Start	3.30	Rating **	M	Issue No.	3
LM End	3.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		36.774403 °	36.774403 °	
			-120.234705 °	-120.234705 °	
DWR ID	DWR_NA0010_23_s_2012_3				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 2 : FA_2014_NA0010_139_3_20141103_00003.jpg



Looking south at elderberry bush on landward toe. (Fall 2013)

LM Start	3.30	Rating **	M	Issue No.	3 (cont)
LM End	3.30	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_NA0010_139_3_20141103_00004.jpg



Looking south at elderberry on landside toe and berm.

* 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	11/05/2014 11/05/2014	Richard Willoughby

LM Start	3.45	Rating **	M	Issue No.	9
LM End	3.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		36.776537 °	36.776537 °	
			-120.234573 °	-120.234573 °	
DWR ID	DWR_NA0010_23_s_2012_9				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : FA_2014_NA0010_139_9_20141103_00008.jpg



Looking south at elderberry on landside toe and berm.

LM Start	4.14	Rating **	M	Issue No.	10
LM End	4.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		36.784212 °	36.784212 °	
			-120.228815 °	-120.228815 °	
DWR ID	DWR_NA0010_23_s_2012_10				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 2 : FA_2014_NA0010_139_10_20141103_00009.jpg



Looking south at elderberry bush on landward toe. (Fall 2013)

LM Start	4.14	Rating **	M	Issue No.	10 (cont)
LM End	4.14	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2014_NA0010_139_10_20141103_00010.jpg



Looking south at elderberry on landside toe and berm.

* 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	11/05/2014 11/05/2014	Richard Willoughby

LM Start	4.46	Rating **	M	Issue No.	11
LM End	4.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		36.784523 °	36.784523 °	
			-120.223292 °	-120.223292 °	
DWR ID	DWR_NA0010_23_s_2012_11				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : FA_2014_NA0010_139_11_20141103_00011.jpg



Looking south at elderberry on landside toe and berm.

LM Start	5.23	Rating **	C	Issue No.	7
LM End	5.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		36.791400 °	36.791400 °	
			-120.214222 °	-120.214222 °	
DWR ID	DWR_NA0010_23_s_2012_7				
Action/Comments					
Material Inspector Comments: Sand pile in channel over three feet high. Pile is too close to levee.					

No Photos

LM Start	5.69	Rating **	M	Issue No.	5
LM End	5.90	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		36.792012 °	36.790972 °	
			-120.206270 °	-120.202588 °	
DWR ID	DWR_NA0010_23_s_2012_5				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Several large rodent holes in this area.					

Photo 1 of 1 : FA_2014_NA0010_139_5_20141103_00005.jpg



Looking at several rodent holes on landside 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
--	--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.24	11/05/2014 11/05/2014	Richard Willoughby

LM Start	8.48	Rating **	A/W	Issue No.	17
LM End	8.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		36.793717 °	36.793717 °	
			-120.178997 °	-120.178997 °	
DWR ID	DWR_NA0010_23_s_2013_17				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Waterward slope has been damaged due to vehicle traffic.					

Photo 1 of 1 : FA_2014_NA0010_139_17_20141103_00016.jpg



Looking southwest at waterward slope damaged due to vehicle traffic.

LM Start	9.10	Rating **	C	Issue No.	2
LM End	9.21	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		36.802116 °	36.802116 °	
			-120.173847 °	-120.173847 °	
DWR ID					
Action/Comments					
Inspector Comments: 7/22/2014: No significant change observed. 07/11/2013. No significant change observed. Dense vegetation and small trees cover the entire site. 07/24/2012: Site has been repaired with riprap rocks and broken concrete blocks, but loose material and cracking are visible at the top of the repaired site. The site needs close monitoring for performance evaluation. 08/16/2011: This site is immediately downstream of the riparian protection section. Dense vegetation growing on the toe and slope of the bank seems to indicate the most part of the erosion occurred prior to last winter. The closest spot is 12 feet away from the levee toe. [2014 Site ID:NA0010U23RM224.27]					

No Photos

LM Start	9.11	Rating **	A/W	Issue No.	18
LM End	9.51	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		36.801334 °	36.804311 °	
			-120.174397 °	-120.169135 °	
DWR ID	DWR_NA0010_23_s_2014_18				
Action/Comments					
Add appropriate material and re-grade the levee to bring the crown above the design elevation. Inspector Comments: Control vegetation on crown.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	11/05/2014 11/05/2014	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	12
LM End	6.72	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		°	°	°
DWR ID	DWR_NA0010_24_f_2014_12				
Action/Comments					
Repair depressions or ruts in the crown or slope.					

No Photos

LM Start	0.82	Rating **	M	Issue No.	6
LM End	0.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		36.766775 °	36.766775 °	°
			-120.278757 °	-120.278757 °	°
DWR ID	DWR_NA0010_24_s_2013_6				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	1.25	Rating **	M	Issue No.	13
LM End	1.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		36.771834 °	36.771834 °	°
			-120.274224 °	-120.274224 °	°
DWR ID	DWR_NA0010_24_f_2014_13				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Slope damage due to vehicle traffic.					

Photo 1 of 1 : FA_2014_NA0010_140_13_20141110_00005.jpg



Looking north at slope damage by vehicle traffic on landward slope.

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

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.36	11/05/2014 11/05/2014	Richard Willoughby

LM Start	3.46	Rating **	M	Issue No.	7
LM End	3.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		36.769345 °	36.769345 °	
			-120.238370 °	-120.238370 °	
DWR ID	DWR_NA0010_24_s_2012_7				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: One of several rodent holes on landward slope.					

Photo 1 of 1 : FA_2014_NA0010_140_7_20141103_00002.jpg



Looking east at one of several rodent holes on landward slope.

LM Start	5.39	Rating **	A/W	Issue No.	2
LM End	6.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		36.782337 °	36.789063 °	
			-120.222930 °	-120.207438 °	
DWR ID	DWR_NA0010_24_s_2012_2				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	6.33	Rating **	M	Issue No.	3
LM End	6.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		36.788155 °	36.788155 °	
			-120.209655 °	-120.209655 °	
DWR ID	DWR_NA0010_24_s_2012_3				
Action/Comments					
Prunings Inspector Comments: Large pruning pile in channel.					

Photo 1 of 2 : FA_2014_NA0010_140_3_20141110_00006.jpg



Looking north at large pruning pile in channel.

* 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
--	--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	11/06/2014 11/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	7
LM End	2.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		°	°	°
DWR ID	DWR_NA0010_25_f_2014_7				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	9
LM End	2.47	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		°	°	°
DWR ID	DWR_NA0010_25_f_2014_9				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	0.00	Rating **	A/W	Issue No.	8
LM End	2.47	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		37.296117° -120.880724°	37.271193° -120.866633°	
DWR ID	DWR_NA0010_25_s_2012_8				
Action/Comments					
Add appropriate material and re-grade the levee to bring the crown above the design elevation. Inspector Comments: Control weeds on levee crown.					

Photo 1 of 2 : FA_2014_NA0010_141_8_20141110_00002.jpg



Looking north at typical view of levee crown in complies with standards.

* 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
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.49	11/06/2014 11/06/2014	Richard Willoughby

LM Start	0.00	Rating **	A/W	Issue No.	8 (cont)
LM End	2.47	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.296117 °	37.271193 °
				-120.880724 °	-120.866633 °
DWR ID	DWR_NA0010_25_s_2012_8				
Action/Comments					
Add appropriate material and re-grade the levee to bring the crown above the design elevation. Inspector Comments: Control weeds on levee crown.					

Photo 2 of 2 : FA_2014_NA0010_141_8_20141103_00001.jpg



Looking north at typical view of vegetation on levee crown.

* 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
--	---	---