

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2016 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

<b>RD2104</b>	Overall LMA Rating	Total LMA Miles						
<b>Reclamation District No. 2104 Peters Pocket Tract</b>	<b>U</b>	<b>6.85</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	14.02	1.86	21.46	313.36%				
Trim / Thin Trees	0.01		0.01	0.15%				
Encroachments						0.01		
Slope Stability	0.01		0.01	0.15%				
Erosion / Bank Caving	0.15	0.02	0.23	3.36%				
Crown Surface / Depressions / Rutting	6.67		6.67	97.40%				
Repair Gates	0.02	0.02	0.10	1.46%				
Emergency Supplies & Equipment	0.07		0.07	1.02%				
Flood Preparedness & Training	0.07		0.07	1.02%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.06	0.04		
<i>LMA Totals:</i>	21.02	1.90	28.62	417.91%	0.06	0.05	0.00	0.00
<b>Unit No. 01 Cache Slough/Unit No. 02 Haas Slough LB</b>	Overall Unit Rating	Total Unit Miles						
<b>RD2104</b>	<b>U</b>	<b>6.85</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	14.02	1.86	21.46	313.36%				
Trim / Thin Trees	0.01		0.01	0.15%				
Encroachments						0.01		
Slope Stability	0.01		0.01	0.15%				
Erosion / Bank Caving	0.15	0.02	0.23	3.36%				
Crown Surface / Depressions / Rutting	6.67		6.67	97.40%				
Repair Gates	0.02	0.02	0.10	1.46%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.06	0.04		
<i>Unit Totals:</i>	20.88	1.90	28.48	415.87%	0.06	0.05	0.00	0.00

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

**Reclamation District No. 2104 Peters Pocket Tract**

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

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

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

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

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2016 Levee Inspection Results**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway			Bank	Unit Miles
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough			Left	6.85
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	3/25/2016 - 3/25/2016		11/3/2016 - 11/3/2016	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By				

**Summer & Winter Inspections**

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

DWR must be informed on the:

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

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

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

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

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

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	11/03/2016 11/03/2016	Herman Phillips

LM Start		Rating **	M	Issue No.	12
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD2104_01_s_2012_12				
Comment Code					
Inspector Comment					
District needs to have their staff flood fight trained.					

No Photos

LM Start		Rating **	A	Issue No.	14
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD2104_01_f_2012_14				
Comment Code					
Inspector Comment					
District has the O+M Manual on hand.					

No Photos

LM Start		Rating **	M	Issue No.	40
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD2104_01_s_2012_40				
Comment Code					
Inspector Comment					
District needs to have flood fight supplies in storage.					

No Photos

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

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	11/03/2016 11/03/2016	Herman Phillips

LM Start	0.01	Rating **	M	Issue No.	17
LM End	1.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.308090 °	38.295622 °
				-121.758615 °	-121.741660 °
DWR ID	DWR_RD2104_01_f_2016_17				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control annual grasses and weeds on the waterside slope.					

No Photos

LM Start	0.01	Rating **	M	Issue No.	15
LM End	4.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.308090 °	38.313175 °
				-121.758615 °	-121.739101 °
DWR ID	DWR_RD2104_01_f_2016_15				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control the annual grasses on the landside slope and toe.					

Photo 1 of 1 : FA\_2016\_RD2104\_249\_15\_20161107\_00038.jpg



RD 2104 Fall inspection levee mile 0.01-3.47.

LM Start	0.02	Rating **	M	Issue No.	18
LM End	6.84	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.308053 °	38.308433 °
				-121.758557 °	-121.758533 °
DWR ID	DWR_RD2104_01_f_2016_18				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					
Keep the crown roadway vegetation free.					

No Photos

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	11/03/2016 11/03/2016	Herman Phillips

No Photos

Photo 1 of 1 : FA\_2016\_RD2104\_249\_22\_20161103\_00035.jpg



RD 2104 Levee mile 1.20 waterside slope.

Photo 1 of 1 : FA\_2016\_RD2104\_249\_23\_20161107\_00045.jpg



RD 2104 Levee mile 1.27 wateside.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	11/03/2016 11/03/2016	Herman Phillips

LM Start	1.43	Rating **	U	Issue No.	27
LM End	1.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.295622 °	38.294853 °
				-121.741655 °	-121.741213 °
DWR ID	DWR_RD2104_01_f_2016_27				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the woody vegetation from the waterside levee slope and shoulder.					

Photo 1 of 1 : FA\_2016\_RD2104\_249\_27\_20161107\_00042.jpg



LM Start	1.57	Rating **	M	Issue No.	44
LM End	1.57	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			38.294117 °	38.294117 °
				-121.740385 °	-121.740385 °
DWR ID	DWR_RD2104_01_f_2014_44				
Comment Code					
Inspector Comment					
Repair the damaged gate.					

No Photos

LM Start	1.93	Rating **	M	Issue No.	16
LM End	1.94	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.292027 °	38.291947 °
				-121.734575 °	-121.734453 °
DWR ID	DWR_RD2104_01_s_2012_16				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

No Photos

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

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	11/03/2016 11/03/2016	Herman Phillips

LM Start	2.40	Rating **	M	Issue No.	132
LM End	2.40	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.291579 °	38.291579 °
				-121.726159 °	-121.726159 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41347 DS_ID:24726 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 24-inch CMP debris on WS berm may indicate pipe was abandoned. FIELD_STRUCT_DESC: *ABANDONED* 24-inch CMP drain pipe through the levee 18-feet below the crown. Flapgate on the WS toe. Originally included in O+M manual, 1964. FS Date: 12/4/2013					

Photo 1 of 1 : UCIP\_FA\_2016\_41347\_45043.jpg



Pipe debris on WS berm.

LM Start	3.04	Rating **	M	Issue No.	133
LM End	3.04	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.299447 °	38.299447 °
				-121.730444 °	-121.730444 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41834					
DS_ID:24720					
EP_NO: 14184					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Signs in disrepair and need proper markings.					
FIELD_STRUCT_DESC: 6-inch steel gasoline through the levee 3-feet below the crown. Signs on LS and WS toe.					
FS Date: 12/4/2013					

Photo 1 of 2 : UCIP\_FA\_2016\_41834\_45069.jpg



Sign on WS berm.

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

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	11/03/2016 11/03/2016	Herman Phillips

LM Start	3.04	Rating **	M	Issue No.	133 (cont)	
LM End	3.04	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.299447 °		38.299447 °
				-121.730444 °		-121.730444 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:41834						
DS_ID:24720						
EP_NO: 14184						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Signs in disrepair and need proper markings.						
FIELD_STRUCT_DESC: 6-inch steel gasoline through the levee 3-feet below the crown. Signs on LS and WS toe.						
FS Date: 12/4/2013						

Photo 2 of 2 : UCIP\_FA\_2016\_41834\_45068.jpg



Sign post on LS toe.

LM Start	3.06	Rating **	M	Issue No.	46
LM End	3.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.299679 °	38.299679 °
				-121.730469 °	-121.730469 °
DWR ID	DWR_RD2104_01_s_2012_46				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Note and monitor the erosion site.					

No Photos

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

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	11/03/2016 11/03/2016	Herman Phillips

LM Start	3.12	Rating **	M	Issue No.	36
LM End	3.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.300571 °	38.300571 °
				-121.730411 °	-121.730411 °
DWR ID	DWR_RD2104_01_s_2012_36				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	3.12	Rating **	M	Issue No.	119
LM End	3.12	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			38.300600 °	38.300600 °
				-121.730432 °	-121.730432 °
DWR ID	DWR_RD2104_01_f_2014_119				
Comment Code					
Inspector Comment					
Repair the damaged gate.					

No Photos

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

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	11/03/2016 11/03/2016	Herman Phillips

LM Start	3.12	Rating **	M	Issue No.	131
LM End	3.12	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.300605 °	38.300605 °
				-121.730440 °	-121.730440 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24992 DS_ID:24707 EP_NO: 4412 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Heavy vegetation at concrete headwall on LS toe and at possible outlet area on WS toe. If possible, vegetation should be cleared to check if this is an accurate location. Erosion around backside of headwall at LS toe. FIELD_STRUCT_DESC: 4 x 4 concrete culvert through the levee 17.0-feet below the crown. Originally included in O+M manual, 1964. Concrete headwall on LS toe. FS Date: 12/4/2013					

Photo 1 of 2 : UCIP\_FA\_2016\_24992\_45051.jpg



Vegetation covering possible location for 4X4 concrete culvert at LS toe.

LM Start	<b>3.12</b>	Rating **	M	Issue No.	<b>131 (cont)</b>
LM End	<b>3.12</b>	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP\_FA\_2016\_24992\_45050.jpg



Vegetation covering possible location for 4X4 concrete culvert at LS toe.

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

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	11/03/2016 11/03/2016	Herman Phillips

LM Start	4.01	Rating **	U	Issue No.	124
LM End	4.01	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.310873 °	38.310873 °
				-121.736189 °	-121.736189 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24995 DS_ID:24706 EP_NO: 10183 Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe rusted through on WS berm. Siphon breaker in CMP riser blocked by riser misalignment. FIELD_STRUCT_DESC: 12-inch steel drainpipe through the levee 4.0-feet below the crown. Pump on pile structure in drainage ditch on landward side. One C.M. cutoff wall and a Siphon breaker in a 24-inch CMP riser on the waterward shoulder. Flap gate on waterward end. (ABO No. 10183 - Miller) Originally included in O+M manual, 1964. Asbuilt Dwg. 50-04-3379. FS Date: 12/4/2013					

LM Start	<b>4.01</b>	Rating **	U	Issue No.	<b>124 (cont)</b>
LM End	<b>4.01</b>	Issue Type +	En	Location *	CR

Photo 1 of 2 : UCIP\_FA\_2016\_24995\_45056.jpg



Pump on pier off LS toe at ponding area. power pole and meter on LS toe.

Photo 2 of 2 : UCIP\_FA\_2016\_24995\_45055.jpg



Siphon breaker in CMP riser on WS slope.

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

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	11/03/2016 11/03/2016	Herman Phillips

LM Start	4.01	Rating **	U	Issue No.	120
LM End	4.01	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.310912 °	38.310912 °
				-121.736172 °	-121.736172 °
DWR ID	DWR_RD2104_01_f_2014_120				
Comment Code					
PI : Pipe					
Inspector Comment					
This pipe was written up during the inspection 2014. Unauthorized repairs, unacceptable plastic pipe and repairs done without CVFPB Permit.					

Photo 1 of 2 : FA\_2016\_RD2104\_249\_120\_20161107\_00041.jpg



View of unauthorized pipe through levee crown roadway leading to the pump in raised wooden structure in irrigation ditch landward.

LM Start	<b>4.01</b>	Rating **	U	Issue No.	<b>120 (cont)</b>
LM End	<b>4.01</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA\_2016\_RD2104\_249\_120\_20161107\_00039.jpg



View of unauthorized pipe work, waterside slope. The siphon breaker broken off coupling.

LM Start	4.24	Rating **	U	Issue No.	122
LM End	5.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.313130 °	38.324828 °
				-121.739050 °	-121.755401 °
DWR ID	DWR_RD2104_01_f_2014_122				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild growth from the levee slope.					

Photo 1 of 2 : FA\_2016\_RD2104\_249\_122\_20160919\_00010.jpg



Unsatisfactory wild growth on the landside levee shoulder and slope.

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

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	11/03/2016 11/03/2016	Herman Phillips

LM Start	4.24	Rating **	U	Issue No.	122 (cont)	
LM End	5.57	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.313130 °		38.324828 °
				-121.739050 °		-121.755401 °
DWR ID	DWR_RD2104_01_f_2014_122					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Remove the wild growth from the levee slope.						

Photo 2 of 2 : FA\_2016\_RD2104\_249\_122\_20161107\_00043.jpg



LM Start	4.24	Rating **	U	Issue No.	123
LM End	4.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.313135 °	38.318388 °
				-121.739073 °	-121.744370 °
DWR ID	DWR_RD2104_01_f_2014_123				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild woody tree growth and wild vegetation.					

Photo 1 of 1 : FA\_2016\_RD2104\_249\_123\_20160919\_00011.jpg



Wild woody tree growth on the waterside slope and shoulder.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	11/03/2016 11/03/2016	Herman Phillips

LM Start	4.31	Rating **	U	Issue No.	125
LM End	4.31	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.313955 °	38.313955 °
				-121.739930 °	-121.739930 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24996 DS_ID:24705 EP_NO: 10182 Repair Type: Urgent Crossing Status: Found UCIP Comments: Vegetation and soil buildup throughout pipe preventing flapgate from closing. Remove vegetation to allow gate to close properly. FIELD_STRUCT_DESC: 24-inch CMP drainpipe through the levee 15.0-feet below the crown. 36-inch concrete standpipe on LS toe. Flapgate on WS toe. Two C.M. cut of walls. (ABO No. 10182 - Machado) Originally included in O+M manual, 1964. Asbuilt Dwg. 50-04-3379. FS Date: 12/4/2013					

Photo 1 of 2 : UCIP\_FA\_2016\_24996\_45062.jpg



CMP pipe and flapgate off WS toe.

LM Start	<b>4.31</b>	Rating **	U	Issue No.	<b>125 (cont)</b>
LM End	<b>4.31</b>	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP\_FA\_2016\_24996\_45061.jpg



36-inch concrete riser on LS toe at channel.

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

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	11/03/2016 11/03/2016	Herman Phillips

LM Start	4.65	Rating **	M	Issue No.	126
LM End	4.65	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.317941 °	38.317941 °
				-121.743503 °	-121.743503 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:25003 DS_ID:24704 EP_NO: 10182 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sign on WS toe needs repair. FIELD_STRUCT_DESC: 8-inch gas line through levee at high elevation. Sign on WS and LS toe. (ABO No. 10182 - Machado) Asbuilt Dwg. 50-04-3379. FS Date: 12/4/2013					

Photo 1 of 2 : UCIP\_FA\_2016\_25003\_45081.jpg



Gasline marker on LS toe.

LM Start	<b>4.65</b>	Rating **	M	Issue No.	<b>126 (cont)</b>
LM End	<b>4.65</b>	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP\_FA\_2016\_25003\_45080.jpg



Sign pole on WS toe missing sign.

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

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	11/03/2016 11/03/2016	Herman Phillips

LM Start	4.67	Rating **	M	Issue No.	127
LM End	4.67	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.318119 °	38.318119 °
				-121.743730 °	-121.743730 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:25005					
DS_ID:24703					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Good candidate for video inspection.					
FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee					
13.5-feet below the crown. Pump on pile structure in stream. Slide gate					
in 36-inch CMP riser on waterward slope. Two cutoff walls. Concrete					
"U" headwall and air vent at toe of landward slope. Asbuilt Dwg. 50-04-					
3379. Electrical conduit through levee at same location.					
FS Date: 12/4/2013					

Photo 1 of 2 : UCIP\_FA\_2016\_25005\_45083.jpg



Concrete headwall on LS toe at irrigation ditch.

LM Start	<b>4.67</b>	Rating **	M	Issue No.	<b>127 (cont)</b>
LM End	<b>4.67</b>	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP\_FA\_2016\_25005\_45082.jpg



Slide gate in CMP riser on WS slope with pump on pier in background.

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

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	11/03/2016 11/03/2016	Herman Phillips

LM Start	4.72	Rating **	M	Issue No.	128
LM End	4.72	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.318432 °	38.318432 °
				-121.744540 °	-121.744540 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:25006 DS_ID:24702 EP_NO: 10182 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Minor erosion of base under headwall on WS toe. Heavy corrosion of pipe at WS toe. Further evaluation of pipe integrity needed. FIELD_STRUCT_DESC: 24-inch CMP drain pipe through the levee 13.5-feet below the crown. Concrete "U" headwalls on both ends. Two C.M. cutoff walls. Flap gate on waterward end. (ABO No. 10182 - Machado) FS Date: 12/4/2013					

Photo 1 of 2 : UCIP\_FA\_2016\_25006\_45086.jpg



Concrete U shaped headwall on WS toe.

LM Start	<b>4.72</b>	Rating **	M	Issue No.	<b>128 (cont)</b>
LM End	<b>4.72</b>	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP\_FA\_2016\_25006\_45085.jpg



Concrete U shaped headwall on LS toe.

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

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	11/03/2016 11/03/2016	Herman Phillips

LM Start	4.72	Rating **	M	Issue No.	19
LM End	4.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.318462 °	38.318462 °
				-121.744535 °	-121.744535 °
DWR ID	DWR_RD2104_01_s _ 2013_19				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Note and monitor erosion site					

No Photos

LM Start	4.77	Rating **	M	Issue No.	53
LM End	4.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.318685 °	38.318685 °
				-121.745368 °	-121.745368 °
DWR ID	DWR_RD2104_01_s _ 2013_53				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

No Photos

LM Start	4.88	Rating **	M	Issue No.	24
LM End	4.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.319559 °	38.319559 °
				-121.747085 °	-121.747085 °
DWR ID	DWR_RD2104_01_s _ 2012_24				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Note and monitor the erosion site.					

No Photos

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

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	11/03/2016 11/03/2016	Herman Phillips

LM Start	4.90	Rating **	M	Issue No.	29
LM End	4.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.319812 °	38.319812 °
				-121.747434 °	-121.747434 °
DWR ID	DWR_RD2104_01_s_2012_29				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Note and monitor erosion site.					

No Photos

LM Start	4.96	Rating **	U	Issue No.	75
LM End	4.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.320408 °	38.320408 °
				-121.748173 °	-121.748173 °
DWR ID	DWR_RD2104_01_f_2015_75				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion on the landside slope caused by livestock.					

Photo 1 of 1 : FA\_2016\_RD2104\_249\_75\_20161107\_00044.jpg



RD 2104 site on the landside slope into the shoulder.

LM Start	5.04	Rating **	M	Issue No.	41
LM End	5.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.321582 °	38.321582 °
				-121.748546 °	-121.748546 °
DWR ID	DWR_RD2104_01_s_2012_41				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Note and monitor the erosion site.					

No Photos

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

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	11/03/2016 11/03/2016	Herman Phillips

LM Start	5.05	Rating **	M	Issue No.	55
LM End	5.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.321719 °	38.322666 °
				-121.748556 °	-121.748448 °
DWR ID	DWR_RD2104_01_s_2013_55				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Note and monitor erosion site on the landside slope.					

No Photos

LM Start	5.09	Rating **	U	Issue No.	129
LM End	5.09	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.322215 °	38.322215 °
				-121.748418 °	-121.748418 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:25007 DS_ID:24701 EP_NO: 10182 Repair Type: Urgent Crossing Status: Found UCIP Comments: Footing under headwall on WS toe severely undermined. Pipe rusted heavily with holes at WS and may need replacement. FIELD_STRUCT_DESC: 24-inch CMP drain pipe through levee 13.0 feet below crown. Two cutoff walls. Concrete "U" headwalls on both ends. Flap gate on water end. (ABO No. 10182 - Machado). Asbuilt Dwg. 50-04-3379. FS Date: 12/4/2013					

Photo 1 of 2 : UCIP\_FA\_2016\_25007\_45090.jpg



Concrete U-shaped headwall on WS toe. Note erosion scarp around headwall.

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

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	11/03/2016 11/03/2016	Herman Phillips

Photo 2 of 2 : UCIP\_FA\_2016\_25007\_45089.jpg



12/04/2013

Headwall undermined on WS toe.

Photo 1 of 1 : FA\_2016\_RD2104\_249\_73\_20160919\_00005.jpg



Repair this gate at levee mile 5.72.

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

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	11/03/2016 11/03/2016	Herman Phillips

LM Start	5.35	Rating **	M	Issue No.	33
LM End	5.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.323595 °	38.323730 °
				-121.752295 °	-121.752430 °
DWR ID	DWR_RD2104_01_s_2012_33				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Note and mmoonitor the erosion site.					

No Photos

LM Start	5.51	Rating **	U	Issue No.	77
LM End	5.51	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			38.325048 °	38.325048 °
				-121.754357 °	-121.754357 °
DWR ID	DWR_RD2104_01_s_2014_77				
Comment Code					
Inspector Comment					
Repair the damages gate.					

No Photos

LM Start	5.52	Rating **	M	Issue No.	38
LM End	6.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.325074 °	38.318590 °
				-121.754511 °	-121.758209 °
DWR ID	DWR_RD2104_01_s_2012_38				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild growth of than native grasses.					

No Photos

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

**Levee Inspection Report By Mile - Fall 2016**

**Reclamation District No. 2104 Peters Pocket Tract**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cache Slough/Unit No. 02 Haas Slough	Left	6.85	11/03/2016 11/03/2016	Herman Phillips

LM Start	5.57	Rating **	M	Issue No.	56
LM End	6.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.324828 °	38.313087 °
				-121.755401 °	-121.758175 °
DWR ID	DWR_RD2104_01_s_2013_56				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild growth other than native gasses from the landside slope.					

No Photos

LM Start	6.84	Rating **	U	Issue No.	130
LM End	6.84	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.308404 °	38.308404 °
				-121.758585 °	-121.758585 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:25086 DS_ID:24699 EP_NO: 10184 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: Pump station visible to north on LS toe. Good indicator of location. Need PG+E to mark pipe location. FIELD_STRUCT_DESC: 8-inch gas line through levee 2.0 feet below crown. (ABO No. 10184 - PG&E). Asbuilt Dwg. 50-04-3379. FS Date: 12/4/2013					

No Photos

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