

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

Sutter Maintenance Yard East Levee Sutter Bypass

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

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

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

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

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2014 Levee Inspection Results

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles
Unit No. 01 Sutter Bypass Levee	Left	22.12

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/10/2014 - 03/10/2014			
DWR Inspector	Bob Duffey			
Accompanied By	Steve Beckley Sutter Maintenance Yard			

Summer & Winter Inspections

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

DWR must be informed on the:

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

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

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

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

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

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	22.12	03/10/2014 03/10/2014	Bob Duffey

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				°
				°	°
DWR ID	DWR_ST0002_01_s_2013_4				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				°
				°	°
DWR ID	DWR_ST0002_01_s_2013_5				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				°
				°	°
DWR ID	DWR_ST0002_01_s_2013_6				
Action/Comments					

No Photos

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

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	22.12	03/10/2014 03/10/2014	Bob Duffey

LM Start	0.33	Rating **	M	Issue No.	476
LM End	0.33	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.147463 °	39.147463 °
				-121.828716 °	-121.828716 °
DWR ID	DWR_ST0002_01_s_2014_476				
Action/Comments					
Inspector Comments: FS_ID:23546 EP_NO: 4795 Repair Type: Crossing Status: UCIP Comments: Unable to locate any indicator of crossing. More research may be necessary 5/22/2013 Same as last inspection. Unable to locate 4/30/2103 Same as last inspection. FIELD_STRUCT_DESC: 3-inch gas line along the landward toe. (extension of App. No. 4795 - PG&E). FS Date: 11/4/2013 1:06:24 PM					

No Photos

LM Start	1.13	Rating **	M	Issue No.	477
LM End	1.13	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.140868 °	39.140868 °
				-121.816644 °	-121.816644 °
DWR ID	DWR_ST0002_01_s_2014_477				
Action/Comments					
Inspector Comments: FS_ID:23550 EP_NO: 10932 Repair Type: Crossing Status: UCIP Comments: Pier has no walkway to access pump on pier. This is not necessarily an issue 5/22/2013 24in. cmp riser on WS shoulder is full of garbage and dirt and should be cleaned out to inspect siphon breaker 0/30/2013 24in. cmp riser was pulled out of levee and there is no sign of a siphon breaker on WS shoulder. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee, 6.3 feet below the crown. Vertical pump mounted on a steel structure on the bank. Siphon breaker in a 24-inch corrugated metal pipe riser on the waterward slope. Concrete distribution box on the landward side. JP on WS shoulder. Original Equipment in O+M. Replaced under (App. 10932-Nall) Hand drawings available in permit. FS Date: 11/4/2013 1:10:00 PM					

Photo 1 of 1 : UCIP_3528.jpg



Pump on metal pier on WS slope.

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

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	22.12	03/10/2014 03/10/2014	Bob Duffey

LM Start	1.91	Rating **	M	Issue No.	489
LM End	1.91	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.134447 °	39.134447 °
				-121.805071 °	-121.805071 °
DWR ID	DWR_ST0002_01_s_2014_489				
Action/Comments					
Tree or limb					

Photo 1 of 1 : rduffey_s_20140317_111.jpg



View of the downed tree on the waterside slope.

LM Start	3.60	Rating **	M	Issue No.	7
LM End	3.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.120422 °	39.120422 °
				-121.779907 °	-121.779907 °
DWR ID	DWR_ST0002_01_f_2012_7				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : rduffey_s_20140317_112.jpg



View of the rodent activity along landside slope.

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

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	22.12	03/10/2014 03/10/2014	Bob Duffey

LM Start	10.44	Rating **	M	Issue No.	478
LM End	10.44	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033517 °	39.033517 °
				-121.728925 °	-121.728925 °
DWR ID	DWR_ST0002_01_s_2014_478				
Action/Comments					
Inspector Comments: FS_ID:23577 EP_NO: 14455 Repair Type: Crossing Status: UCIP Comments: 5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced 10/30/2013 Same as last inspection. FIELD_STRUCT_DESC: 3 of 3. 4.5-inch Natural gas pipelines through the levee installed 2 feet below the crown. Pipes were paced in same trench 1-foot apart. Gasline markers on LS toe and WS shoulder. Design drawings available in the permit. FS Date: 11/4/2013 1:44:26 PM					

Photo 1 of 1 : UCIP_3535.jpg



Gasline markers on LS toe.

LM Start	10.44	Rating **	M	Issue No.	479
LM End	10.44	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033519 °	39.033519 °
				-121.728926 °	-121.728926 °
DWR ID	DWR_ST0002_01_s_2014_479				
Action/Comments					
Inspector Comments: FS_ID:23576 EP_NO: 14455 Repair Type: Crossing Status: UCIP Comments: 5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced 10/30/2013 Same as last inspection. FIELD_STRUCT_DESC: 2 of 3. 4.5-inch Natural gas pipelines through the levee installed 2 feet below the crown. Pipes were paced in same trench 1-foot apart. Gasline markers on LS toe and WS shoulder. Design drawings available in the permit. FS Date: 11/4/2013 1:43:56 PM					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown
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** 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**

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	22.12	03/10/2014 03/10/2014	Bob Duffey

LM Start	10.44	Rating **	M	Issue No.	480
LM End	10.44	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033522 °	39.033522 °
				-121.728927 °	-121.728927 °
DWR ID	DWR_ST0002_01_s_ 2014_480				
Action/Comments					
Inspector Comments: FS_ID:23575 EP_NO: 14455 Repair Type: Crossing Status: UCIP Comments: 5/22/2013 Carsonite marker on WS shoudler is broken and should be replaced 10/30/2013 Same as last inspection. FIELD_STRUCT_DESC: 1 of 3. 4.5-inch Natural gas pipelines through the levee installed 2 feet below the crown. Pipes were paced in same trench 1-foot apart. Gasline markers on LS toe and WS shoulder. Design drawings available in the permit. FS Date: 11/4/2013 1:43:23 PM					

No Photos

LM Start	10.98	Rating **	M	Issue No.	1
LM End	11.05	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.024835 °	39.024399 °
				-121.726929 °	-121.726808 °
DWR ID					
Action/Comments					
Inspector Comments: 2011 - Small section of the mid levee slope has eroded from wind wave. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: SBP_11-1_L]					

No Photos

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

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	22.12	03/10/2014 03/10/2014	Bob Duffey

LM Start	11.00	Rating **	M	Issue No.	481
LM End	11.00	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.025683 °	39.025683 °
				-121.726886 °	-121.726886 °
DWR ID	DWR_ST0002_01_s_2014_481				
Action/Comments					
Inspector Comments: FS_ID:23585 EP_NO: N/A Repair Type: Crossing Status: UCIP Comments: Determine type of abandonment 5/22/2013 Same as last inspection 10/30/2013 Same as last inspection. FIELD_STRUCT_DESC: 2 of 5. 4-foot by 6-foot concrete box culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterward end. Wooden steps on the landward slope. Concrete steps on the waterward end. Originally included in the O+M Manual. FS Date: 11/4/2013 1:51:13 PM					

No Photos

LM Start	11.00	Rating **	M	Issue No.	482
LM End	11.00	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.025693 °	39.025693 °
				-121.726895 °	-121.726895 °
DWR ID	DWR_ST0002_01_s_2014_482				
Action/Comments					
Inspector Comments: FS_ID:23584 EP_NO: N/A Repair Type: Crossing Status: UCIP Comments: Need to determine type of abandonment 5/22/2013 Same as last inspection 10/30/2013 Same as last inspection. FIELD_STRUCT_DESC: 1 of 5. 4-foot by 6-foot concrete box culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterward end. Wooden steps on the landward slope. Concrete steps on the waterward end. Originally included in the O+M Manual. FS Date: 11/4/2013 1:50:19 PM					

No Photos

*** Location**

LS : Land Side
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 - Spring 2014

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	22.12	03/10/2014 03/10/2014	Bob Duffey

LM Start	11.01	Rating **	M	Issue No.	483
LM End	11.01	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.025560 °	39.025560 °
				-121.726846 °	-121.726846 °
DWR ID	DWR_ST0002_01_s_2014_483				
Action/Comments					
Inspector Comments: FS_ID:23589 EP_NO: 3165 Repair Type: Crossing Status: UCIP Comments: Need to determine type of abandonment 5/22/2013 Same as last inspection. FIELD_STRUCT_DESC: 10-inch drainage pipe through the levee, 2.0 feet below the crown. Siphon breaker in a 36-inch CM pipe riser on the waterward shoulder. Flap gate on the waterward end. (App. 3165 - DWR). Minimalistic design drawings available. FS Date: 11/4/2013 1:54:13 PM					

Photo 1 of 1 : UCIP_3542.jpg



Siphon breaker in 36-inch CMP riser on WS shoulder. Pipe visible at siphon breaker.

LM Start	13.13	Rating **	M	Issue No.	484
LM End	13.13	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.996304 °	38.996304 °
				-121.716290 °	-121.716290 °
DWR ID	DWR_ST0002_01_s_2014_484				
Action/Comments					
Inspector Comments: FS_ID:23591 EP_NO: 15571 Repair Type: Crossing Status: UCIP Comments: Need to determine status of pipeline. Unable to locate any markers in field 6/23/2013 Same as last inspection. Unable to locate 10/30/2013 Same as last inspection. FIELD_STRUCT_DESC: 10.75-IN. STEEL GAS PIPELINE 2 feet below the levee crown. Permit #15571. Design drawings are available. FS Date: 11/4/2013 1:55:25 PM					

No Photos

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

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	22.12	03/10/2014 03/10/2014	Bob Duffey

LM Start	13.54	Rating **	M	Issue No.	485
LM End	13.54	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.991808 °	38.991808 °
				-121.711512 °	-121.711512 °
DWR ID	DWR_ST0002_01_s_2014_485				
Action/Comments					
Inspector Comments: FS_ID:23592 EP_NO: N/A Repair Type: Crossing Status: UCIP Comments: Verify work (if any) was done to replace original equipment with inspected 5/23/2013 Same as last inspection 10/30/2013 Same as last inspection. FIELD_STRUCT_DESC: 18-inch pipe through the levee, 5.5 feet below the crown. Pipe measures 16-inches at pump and on LS outlet. Siphon breaker in a 16-inch corrugated metal pipe riser on the landward slope. Pump on pile structure in the channel. Meter and pole on the bank. Originally included in O+M manual. FS Date: 11/4/2013 1:56:06 PM					

Photo 1 of 1 : UCIP_3543.jpg



Pump on Pier structure on WS toe.

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

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	22.12	03/10/2014 03/10/2014	Bob Duffey

LM Start	14.70	Rating **	M	Issue No.	486
LM End	14.70	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.981286 °	38.981286 °
				-121.694958 °	-121.694958 °
DWR ID	DWR_ST0002_01_s_2014_486				
Action/Comments					
Inspector Comments: FS_ID:23593 EP_NO: 1674 Repair Type: Crossing Status: UCIP Comments: Pipe exposed on WS toe at road and heavy oil usage that may be a problem at pump on pie5/23/2013 Same as last inspection10/30/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch steel pipe through the levee, 4.0 feet below the crown. Siphon breaker in an 18-inch PVC pipe riser on the landward shoulder. 24-inch concrete standpipe in field on the landward side. Vertical pump on a steel pile structure in the channel. (App. 1674 - Etchevery). Minimal design drawings available. FS Date: 11/4/2013 1:56:46 PM					

Photo 1 of 1 : UCIP_3548.jpg



Siphon breaker in PVC standpipe on LS shoulder and Concrete riser in adjacent field.

LM Start	14.91	Rating **	M	Issue No.	487
LM End	14.91	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.979377 °	38.979377 °
				-121.691929 °	-121.691929 °
DWR ID	DWR_ST0002_01_s_2014_487				
Action/Comments					
Inspector Comments: FS_ID:23594 EP_NO: N/A Repair Type: Crossing Status: UCIP Comments: Pipe has not been abandoned properly. It should be removed from the levee section5/23/2013 Same as last inspection10/30/2013 Same as last inspection. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee, 3.5 feet below the crown. Siphon breakers in 30-inch steel risers on both WS and LS shoulders. Vertical pump on pile structure in stream (removed). FS Date: 11/4/2013 1:57:26 PM					

Photo 1 of 1 : UCIP_3551.jpg



Crushed pipe on WS slope.

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

Levee Inspection Report By Mile - Spring 2014

Sutter Maintenance Yard East Levee Sutter Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	22.12	03/10/2014 03/10/2014	Bob Duffey

LM Start	19.46	Rating **	M	Issue No.	488
LM End	19.46	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.932423 °	38.932423 °
				-121.635085 °	-121.635085 °
DWR ID	DWR_ST0002_01_s_2014_488				
Action/Comments					
Inspector Comments: FS_ID:23612 EP_NO: 3165 Repair Type: Crossing Status: UCIP Comments: Need to determine type of abandonment 5/23/2013 Same as last inspection 10/30/2013 Same as last inspection. FIELD_STRUCT_DESC: 10-inch drainage pipe through the levee, 4.0 feet below the crown. Siphon breaker in 36-inch corrugated metal pipe riser on the waterward shoulder. Flap gate on the waterward end. (App. 3165 - DWR) FS Date: 11/4/2013 2:12:39 PM					

Photo 1 of 1 : UCIP_3555.jpg



36-inch CMP riser on WS shoulder.

LM Start	20.64	Rating **	U	Issue No.	10
LM End	20.64	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.918147 °	38.918147 °
				-121.624545 °	-121.624545 °
DWR ID	DWR_ST0002_01_s_2012_10				
Action/Comments					
Building					

No Photos

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