

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

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles
Unit No. 01 Sutter Bypass Levee	Left	21.68

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/23/2016 - 3/23/2016			
DWR Inspector	Keith Millard			
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 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/23/2016 03/23/2016	Keith Millard

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			o	o
DWR ID	DWR_ST0002_01_s_2013_4				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			o	o
DWR ID	DWR_ST0002_01_s_2013_5				
Comment Code					
Inspector Comment					
The LMA has flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			o	o
DWR ID	DWR_ST0002_01_s_2013_6				
Comment Code					
Inspector Comment					
The LMA has completed flood flight training.					

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 - Spring 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/23/2016 03/23/2016	Keith Millard

LM Start	<b>0.32</b>	Rating **	M	Issue No.	<b>47</b>
LM End	<b>0.32</b>	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.147463 °	39.147463 °
				-121.828716 °	-121.828716 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:48178 DS_ID:16859 EP_NO: 4795 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/18/2016 Unable to locate.5/7/2015 Could not locate a marker for this crossing.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2103 Same as last inspection.5/22/2013 Same as last inspection. Unable to locate.10/8/2012 Unable to locate any indicator of crossing. More research may be necessary. FIELD_STRUCT_DESC: 3-inch gas line along the landside (LS) toe. (Permit No. 4795, 1965-PG&E). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/22/2016 7:32:00 AM					

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 - Spring 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/23/2016 03/23/2016	Keith Millard

LM Start	<b>1.12</b>	Rating **	M	Issue No.	<b>48</b>
LM End	<b>1.12</b>	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.140868 °	39.140868 °
				-121.816644 °	-121.816644 °
DWR ID					

Comment Code

Inspector Comment
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FS\_ID:48182  
 DS\_ID:16862  
 EP\_NO: 10932  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: 4/18/2016 CMP riser is still knocked out of place and a siphon breaker cannot be found.5/7/2015 24in. cmp riser and siphon breaker were not found on the WS shoulder.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 24in. cmp riser was pulled out of levee and there is no sign of a siphon breaker on WS shoulder.5/22/2013 24in. cmp riser on WS shoulder is full of garbage and dirt and should be cleaned out to inspect siphon breaker.10/8/2012 Pier has no walkway to access pump on pier. This is not necessarily an issue.  
 FIELD\_STRUCT\_DESC: 16-inch steel irrigation 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 waterside (WS) slope. Concrete distribution box on the landside (LS). Power and communication joint pole (JP) on WS shoulder. Original equipment in O&M. Hand drawings available in permit. Replaced under (Original O&M entry removed in 1975 and replaced under Permit No. 10932, 1976-Edward Nall) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 1094+80)].  
 FS Date: 4/22/2016 7:38:00 AM

LM Start	<b>1.12</b>	Rating **	M	Issue No.	<b>48 (cont)</b>
LM End	<b>1.12</b>	Issue Type +	En	Location *	N/A

Photo 1 of 2 : UCIP\_SP\_2016\_48182\_64805.jpg



Pump on metal pier on WS slope.

Photo 2 of 2 : UCIP\_SP\_2016\_48182\_64804.jpg



24-inch 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 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 - Spring 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/23/2016 03/23/2016	Keith Millard

LM Start	<b>1.57</b>	Rating **	U	Issue No.	<b>27</b>
LM End	<b>1.57</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		39.136984 °	39.136984 °	
			-121.809686 °	-121.809686 °	
DWR ID	DWR_ST0002_01_s_2016_27				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Active erosion of the waterside toe road migrating towards levee.					

Photo 1 of 1 : SP\_2016\_ST0002\_450\_27\_20160405\_00039.jpg



Erosion rut

LM Start	<b>3.54</b>	Rating **	A/W	Issue No.	<b>30</b>
LM End	<b>3.54</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		39.120417 °	39.120417 °	
			-121.779863 °	-121.779863 °	
DWR ID	DWR_ST0002_01_f_2015_30				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	<b>4.14</b>	Rating **	M	Issue No.	<b>28</b>
LM End	<b>4.14</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		39.115232 °	39.115232 °	
			-121.770963 °	-121.770963 °	
DWR ID	DWR_ST0002_01_s_2016_28				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Vehicle traffic on slope has deep ruts and ponding of water.					

Photo 1 of 1 : SP\_2016\_ST0002\_450\_28\_20160405\_00040.jpg



Tire ruts

<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 - Spring 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/23/2016 03/23/2016	Keith Millard

LM Start	<b>5.20</b>	Rating **	A/W	Issue No.	<b>25</b>
LM End	<b>5.20</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.103313 °	39.103313 °
				-121.758813 °	-121.758813 °
DWR ID	DWR_ST0002_01_s_2015_25				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair the vehicle erosion along the waterside slope.					

Photo 1 of 1 : SP\_2016\_ST0002\_450\_25\_20160316\_00005.jpg



View of the vehicle erosion along the waterside slope.

LM Start	<b>6.60</b>	Rating **	M	Issue No.	<b>31</b>
LM End	<b>6.60</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.084236 °	39.084236 °
				-121.749914 °	-121.749914 °
DWR ID	DWR_ST0002_01_s_2016_31				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Fallen dead tree on waterside levee slope.					

Photo 1 of 1 : SP\_2016\_ST0002\_450\_31\_20160405\_00041.jpg



Downed tree on 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 - Spring 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/23/2016 03/23/2016	Keith Millard

LM Start	<b>7.47</b>	Rating **	M	Issue No.	<b>34</b>
LM End	<b>7.47</b>	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.072292 °	39.072292 °
				-121.744907 °	-121.744907 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:48204 DS_ID:19985 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 No Permit identified for crossing. FIELD_STRUCT_DESC: Gas-line crosses levee at unknown depth. Carsonite sign on waterside (WS) shoulder and at landside (LS) toe across toe ditch. Line is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012. FS Date: 4/22/2016 9:04:00 AM					

Photo 1 of 2 : UCIP\_SP\_2016\_48204\_65213.jpg



Gasline marker on WS shoulder.

LM Start	<b>7.47</b>	Rating **	M	Issue No.	<b>34 (cont)</b>
LM End	<b>7.47</b>	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP\_SP\_2016\_48204\_65212.jpg



Gasline marker on LS toe east of ditch.

<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 - Spring 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/23/2016 03/23/2016	Keith Millard

LM Start	<b>8.14</b>	Rating **	M	Issue No.	<b>35</b>
LM End	<b>8.14</b>	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.062976 °	39.062976 °
				-121.741027 °	-121.741027 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:48205 DS_ID:19984 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 No permit or purpose identified for this crossing. FIELD_STRUCT_DESC: 2.5-inch steel pipe bored under the levee at unknown depth. Pipe has locked cap on landside (LS) toe. Steel I-beam stream crossing on LS toe mark location of pipe. Waterside (WS) marker of pipe crossing is not identified. No permit has been identified since crossing was field discovered in 2012. FS Date: 4/22/2016 9:08:00 AM					

Photo 1 of 2 : UCIP\_SP\_2016\_48205\_65215.jpg



Pipe at steel i-beam crossing in ditch at LS toe.

LM Start	<b>8.14</b>	Rating **	M	Issue No.	<b>35 (cont)</b>
LM End	<b>8.14</b>	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP\_SP\_2016\_48205\_65214.jpg



Pipe at steel i-beam crossing in ditch 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 - Spring 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/23/2016 03/23/2016	Keith Millard

LM Start	<b>10.28</b>	Rating **	U	Issue No.	<b>37</b>
LM End	<b>10.28</b>	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.033519 °	39.033519 °
				-121.728926 °	-121.728926 °
DWR ID					
Comment Code					
Inspector Comment					
<p>FS_ID:48208                  DS_ID:16899                  EP_NO: 14455                  Repair Type: Urgent                  Crossing Status: Indicator Found                  UCIP Comments: 4/18/2016 Gas line was damaged at the WS berm due to a farmer getting his tractor stuck. Gas company is aware of the damage and will be doing repairs sometime this summer. Damage should not affect the integrity of the levee.5/7/2015 Marker on WS broken.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Carsonite marker on WS shoulder is broken and should be replaced.                  FIELD_STRUCT_DESC: 2 of 3. 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Pipes were paced in same trench 1-foot apart. Gasline markers on landside (LS) toe and waterside (WS) shoulder. Design drawings available in the permit. (Permit No. 14455, 1986-Depco, Inc.)                  FS Date: 4/22/2016 9:39:00 AM</p>					

Photo 1 of 2 : UCIP\_SP\_2016\_48208\_65219.jpg



Gasline markers on LS toe.

LM Start	<b>10.28</b>	Rating **	U	Issue No.	<b>37 (cont)</b>
LM End	<b>10.28</b>	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP\_SP\_2016\_48208\_65218.jpg



Gasline markers on WS shoulder.

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

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

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/23/2016 03/23/2016	Keith Millard

LM Start	<b>10.83</b>	Rating **	M	Issue No.	<b>39</b>
LM End	<b>10.83</b>	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					

Comment Code

Inspector Comment

FS\_ID:48216  
 DS\_ID:16871  
 EP\_NO: N/A  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: 4/18/2016 Abandoned crossing but no noticeable issues seen with it.5/7/2015 Abandoned crossing but no noticeable issues with it.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Need to determine type of abandonment.  
 FIELD\_STRUCT\_DESC: \*ABANDONED\* [Pumping Plant No. 2] 1 of 5. 4-foot by 6-foot concrete drainage culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterside (WS) end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]  
 FS Date: 4/22/2016 9:47:00 AM

LM Start	<b>10.83</b>	Rating **	M	Issue No.	<b>39 (cont)</b>
LM End	<b>10.83</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_48216\_65251.jpg



Slide gates on WS shoulder

Photo 2 of 2 : UCIP\_SP\_2016\_48216\_65250.jpg



Flap gates on WS toe.

<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 - Spring 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/23/2016 03/23/2016	Keith Millard

LM Start	<b>10.83</b>	Rating **	M	Issue No.	<b>40</b>
LM End	<b>10.83</b>	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					

Comment Code					

Inspector Comment					
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FS\_ID:48217  
 DS\_ID:16906  
 EP\_NO: N/A  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: 4/18/2016 Abandoned crossing but no noticeable issues seen with it.5/7/2015 Abandoned crossing but no noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Determine type of abandonment.  
 FIELD\_STRUCT\_DESC: \*ABANDONED\* [Pumping Plant No. 2] 2 of 5. 4-foot by 6-foot concrete drainage culvert through the levee, 31.5 feet below the crown. Wood flap gate and concrete headwall on the waterside (WS) end. Wooden steps on the landside (LS) slope. Concrete steps on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 582+19)]  
 FS Date: 4/22/2016 9:48:00 AM

LM Start	<b>10.83</b>	Rating **	M	Issue No.	<b>40 (cont)</b>
LM End	<b>10.83</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2016\_48217\_65254.jpg



Slide gates on WS shoulder.

Photo 2 of 2 : UCIP\_SP\_2016\_48217\_65253.jpg



Flap gates on WS toe.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> 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 - Spring 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/23/2016 03/23/2016	Keith Millard

LM Start	<b>10.84</b>	Rating **	M	Issue No.	<b>41</b>
LM End	<b>10.84</b>	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					
Comment Code					
Inspector Comment					
FS_ID:48221 DS_ID:16872 EP_NO: 3165 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/18/2016 Abandoned crossing but no noticeable issues to report.5/7/2015 Abandoned crossing. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/8/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: 10-inch drainage pipe through the levee, 2.0 feet below the crown. Siphon breaker in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Flap gate on the WS end. Minimalistic design drawings available. (Permit No. 3165, 1959-State of California Department of Water Resources [DWR]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/22/2016 10:06:00 AM					

Photo 1 of 1 : UCIP\_SP\_2016\_48221\_65264.jpg



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

<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 - Spring 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/23/2016 03/23/2016	Keith Millard

LM Start	<b>10.85</b>	Rating **	M	Issue No.	<b>42</b>
LM End	<b>10.85</b>	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.025310 °	39.025310 °
				-121.726770 °	-121.726770 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:48222 DS_ID:19986 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/13/2014 Same as last inspection.10/30/2013 Same as last inspection.5/22/2013 Same as last inspection.10/9/2012 No permit identified for crossing. FIELD_STRUCT_DESC: Gas-line crosses levee at unknown depth. Carsonite sign on both landside (LS) and waterside (WS) shoulder. Line is owned by Calpine Pipeline Company. No permit has been identified since crossing was field discovered in 2012. FS Date: 4/22/2016 10:13:00 AM					

Photo 1 of 2 : UCIP\_SP\_2016\_48222\_65266.jpg



Gasline marker on LS shoulder.

LM Start	<b>10.85</b>	Rating **	M	Issue No.	<b>42 (cont)</b>
LM End	<b>10.85</b>	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP\_SP\_2016\_48222\_65265.jpg



Gasline marker on WS shoulder.

<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 - Spring 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/23/2016 03/23/2016	Keith Millard

LM Start	<b>10.88</b>	Rating **	M	Issue No.	<b>1</b>
LM End	<b>10.91</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.024835 °	39.024399 °
				-121.726929 °	-121.726808 °
DWR ID	DWR_ST0002_01_s_2016_1				
Comment Code					
Inspector Comment					
2011 - Small section of the mid levee slope has eroded from wind wave. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: SBP_11-1_L]					

No Photos

LM Start	<b>12.94</b>	Rating **	M	Issue No.	<b>43</b>
LM End	<b>12.94</b>	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					
Comment Code					
Inspector Comment					
FS_ID:48223 DS_ID:16883 EP_NO: 15571 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/18/2016 Unable to locate.5/7/2015 Unable to locate.11/12/2014 Same as last inspection. Unable to locate.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Same as last inspection. Unable to locate.10/9/2012 Need to determine status of pipeline. Unable to locate any markers in field. FIELD_STRUCT_DESC: 10.75-inch steel gas line through the levee, 2 feet below the levee crown. Line was installed within the flowage area and both levees of the Sutter Bypass. Design drawings are available. (Permit No. 15571, 1990-Hood Corporation) FS Date: 4/22/2016 10:15:00 AM					

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 - Spring 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/23/2016 03/23/2016	Keith Millard

LM Start	<b>13.34</b>	Rating **	A/W	Issue No.	<b>23</b>
LM End	<b>13.34</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.991857 °	38.991857 °
				-121.711555 °	-121.711555 °
DWR ID	DWR_ST0002_01_s_2015_23				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair the erosion along the waterside slope.					

Photo 1 of 1 : SP\_2016\_ST0002\_450\_23\_20160316\_00004.jpg



View of the vehicle erosion along the slope.

LM Start	<b>13.35</b>	Rating **	M	Issue No.	<b>44</b>
LM End	<b>13.35</b>	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					
Comment Code					
Inspector Comment					
FS_ID:48224 DS_ID:16873 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Same as last inspection.10/9/2012 Verify work (if any) was done to replace original equipment with inspector. FIELD_STRUCT_DESC: 18-inch irrigation pipe through the levee, 5.5 feet below the crown. Pipe measures 16-inches at pump and on landside (LS) outlet. Siphon breaker in a 16-inch corrugated metal pipe (CMP) riser on the LS slope. Pump on pile structure in the channel. Meter and pole on the waterside (WS). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 449+15)] FS Date: 4/22/2016 10:16:00 AM					

Photo 1 of 2 : UCIP\_SP\_2016\_48224\_65302.jpg



Pump on Pier on WS toe.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Accepted M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> 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 - Spring 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/23/2016 03/23/2016	Keith Millard

LM Start	<b>13.35</b>	Rating **	M	Issue No.	<b>44 (cont)</b>
LM End	<b>13.35</b>	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					
Comment Code					
Inspector Comment					
FS_ID:48224 DS_ID:16873 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/18/2016 Crossing appears in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Same as last inspection.10/9/2012 Verify work (if any) was done to replace original equipment with inspector. FIELD_STRUCT_DESC: 18-inch irrigation pipe through the levee, 5.5 feet below the crown. Pipe measures 16-inches at pump and on landside (LS) outlet. Siphon breaker in a 16-inch corrugated metal pipe (CMP) riser on the LS slope. Pump on pile structure in the channel. Meter and pole on the waterside (WS). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 449+15)] FS Date: 4/22/2016 10:16:00 AM					

Photo 2 of 2 : UCIP\_SP\_2016\_48224\_65301.jpg



Siphon Breaker in 16-inch steel riser on LS shoulder.

<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 - Spring 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/23/2016 03/23/2016	Keith Millard

LM Start	<b>14.71</b>	Rating **	M	Issue No.	<b>45</b>
LM End	<b>14.71</b>	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					
Comment Code					
Inspector Comment					
FS_ID:48226 DS_ID:16875 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/18/2016 Abandoned crossing.5/7/2015 Abandoned crossing. Needs to be properly abandoned.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Same as last inspection.10/9/2012 Pipe has not been abandoned properly. It should be removed from the levee section. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 3.5 feet below the crown. Siphon breakers in 30-inch steel risers on both waterside (WS) and landside (LS) shoulders. Vertical pump on pile structure in stream (removed). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 315, May 1953 (Station 377+10)]. FS Date: 4/22/2016 10:18:00 AM					

Photo 1 of 2 : UCIP\_SP\_2016\_48226\_65314.jpg



Pipe on WS slope exposed and crushed below 30-inch steel riser.

LM Start	<b>14.71</b>	Rating **	M	Issue No.	<b>45 (cont)</b>
LM End	<b>14.71</b>	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP\_SP\_2016\_48226\_65313.jpg



Steel riser on LS shoulder.

<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 - Spring 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/23/2016 03/23/2016	Keith Millard

LM Start	<b>17.60</b>	Rating **	M	Issue No.	<b>21</b>
LM End	<b>17.60</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.949965 °	38.949965 °	
			-121.653823 °	-121.653823 °	
DWR ID	DWR_ST0002_01_s_2015_21				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair the vehicle erosion along the waterside slope.					

LM Start	<b>17.60</b>	Rating **	M	Issue No.	<b>21 (cont)</b>
LM End	<b>17.60</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP\_2016\_ST0002\_450\_21\_20160316\_00002.jpg



View of the vehicle erosion along the waterside slope.

Photo 2 of 2 : SP\_2016\_ST0002\_450\_21\_20160316\_00003.jpg



View of the vehicle erosion along the waterside 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 - Spring 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/23/2016 03/23/2016	Keith Millard

LM Start	<b>19.18</b>	Rating **	M	Issue No.	<b>46</b>
LM End	<b>19.18</b>	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					
Comment Code					
Inspector Comment					
FS_ID:48238 DS_ID:16878 EP_NO: 3165 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/18/2015 Abandoned crossing. No noticeable issues to report.5/7/2015 Abandoned crossing. No noticeable issues to report.11/12/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/23/2013 Same as last inspection.10/9/2012 Need to determine type of abandonment. FIELD_STRUCT_DESC: 10-inch steel drainage pipe through the levee, 4.0 feet below the crown. Siphon breaker in 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Flap gate on the WS end. (Permit No. 3165, 1959- State of California Department of Water Resources [DWR]) [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/22/2016 10:52:00 AM					

Photo 1 of 1 : UCIP\_SP\_2016\_48238\_65334.jpg



36-inch CMP riser on WS shoulder.

LM Start	<b>20.02</b>	Rating **	M	Issue No.	<b>29</b>
LM End	<b>20.02</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.922678 °	38.922678 °
				-121.625890 °	-121.625890 °
DWR ID	DWR_ST0002_01_f_2015_29				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair the erosion along the waterside slope.					

Photo 1 of 1 : SP\_2016\_ST0002\_450\_29\_20160316\_00006.jpg



View of the vehicle erosion along the waterside 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 - Spring 2016**

**Sutter Maintenance Yard East Levee Sutter Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass Levee	Left	21.68	03/23/2016 03/23/2016	Keith Millard

LM Start	<b>20.18</b>	Rating **	M	Issue No.	<b>33</b>
LM End	<b>20.18</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.920461 °	38.920461 °	
			-121.625193 °	-121.625193 °	
DWR ID	DWR_ST0002_01_s_2016_33				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Fallen dead tree on waterside slope.					

Photo 1 of 1 : SP\_2016\_ST0002\_450\_33\_20160405\_00043.jpg



Downed tree obstructing access

LM Start	<b>20.34</b>	Rating **	U	Issue No.	<b>10</b>
LM End	<b>20.34</b>	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				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_ST0002\_450\_10\_20160316\_00001.jpg



View of the house next to the toe of the levee.

<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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