

**Flood Control Project Maintenance
Levee Inspections
LMA District Cover Sheet**

Sacramento Maintenance Yard Maintenance Area 0004

	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**

Sacramento Maintenance Yard Maintenance Area 0004

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Right	3.47
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/18/2023 - 4/18/2023			
DWR Inspector	Marvin Marshall			
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 - Spring 2023

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	04/18/2023 04/18/2023	Marvin Marshall

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0004_01_s_2013_9				
Comment Code					
OM : O&M Manuals					
Inspector Comment					
The Sacramento Maintenance Yard has copies of their O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	10
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0004_01_s_2013_10				
Comment Code					
ES : Emergency Supplies & Equipment					
Inspector Comment					
The Sacramento Maintenance Yard has a stockpile of flood response material.					

No Photos

LM Start		Rating **	A	Issue No.	11
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_MA0004_01_s_2013_11				
Comment Code					
FP : Flood Preparedness & Training					
Inspector Comment					
The Sacramento Maintenance Yard has a written flood response plan and flood response training.					

No Photos

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

Levee Inspection Report By Mile - Spring 2023

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	04/18/2023 04/18/2023	Marvin Marshall

LM Start	0.12	Rating **	M	Issue No.	3
LM End	0.12	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.596587°	38.596587°
				-121.545471°	-121.545471°
DWR ID	DWR_MA0004_01_s_2023_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Repair burrow in crown.					

Photo 1 of 1 : SP_2023_MA0004_298_3_20230418_00021.jpg



Burrow in the crown. Spring 2023

LM Start	0.15	Rating **	M	Issue No.	38
LM End	0.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Rills			38.596660°	38.596822°
				-121.544852°	-121.544053°
DWR ID	DWR_MA0004_01_s_2022_38				
Comment Code					
E5 : Schedule repair of rills prior to the next inspection.					
Inspector Comment					
Repair rilling on LS slope. Other rilling in area on WS slope.					

Photo 1 of 1 : SP_2023_MA0004_298_38_20230306_00009.jpg



Rilling on the landside. Spring 2022

LM Start	0.21	Rating **	A/W	Issue No.	7
LM End	0.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Foot Traffic			38.596963°	38.596963°
				-121.543772°	-121.543772°
DWR ID	DWR_MA0004_01_f_2022_7				
Comment Code					
E3 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Monitor footpath for erosion on the waterside berm.					

Photo 1 of 1 : SP_2023_MA0004_298_7_20230306_00002.jpg



Foot path on the WS berm. Fall 2022

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

Levee Inspection Report By Mile - Spring 2023

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	04/18/2023 04/18/2023	Marvin Marshall

LM Start	0.24	Rating **	A/W	Issue No.	2
LM End	0.72	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.597193°	38.601041°
				-121.543421°	-121.536557°
DWR ID	DWR_MA0004_01_s_2012_2				
Comment Code					
MISC : Miscellaneous					
Inspector Comment					
This is the USACE and DWR SMY. There are various buildings and fences along this section.					

Photo 1 of 1 : SP_2023_MA0004_298_2_20230306_00001.jpg



View of the fence across the levee crown at the SW side of the USACE facility. Spring 2021.

LM Start	0.25	Rating **	M	Issue No.	1
LM End	0.25	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.597277°	38.597277°
				-121.543264°	-121.543264°
DWR ID	25546				
Comment Code					
Inspector Comment					
DS_ID:25546 FS_ID:59983 EP_NO: N/A Repair Type: Non-Urgent EVAL Issue: 11, Maintenance Compliance Issue Crossing Status: Found UCIP Comments: 09/07/2018 Record is considered Non-Urgent. Sediment clearing at pipe inlet is required. Pipe outlet is not visible on WS. O&M legacy system pipe. (O.Yakimov - DWR UCIP) FIELD_STRUCT_DESC: 12-inch corrugated metal drainage pipe through the levee, 19.0 feet below levee crown. [Additional Reference(s): Drawing No. 50-04-4179, Sheet 11.2 and 18.1, pdf page 9 and 17 of 19, associated with USACE Sacramento O&M Manual, Unit 116, August 1955, Revised 29 Dec 2016, shows 12-inch CMP referenced as Sta 44+92 (Site Mile 62.25 RT)]. FS Date: 9/7/2018					

Photo 1 of 3 : UCIP_SP_2023_59983_80009.jpg



Levee crown near crossing

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

Levee Inspection Report By Mile - Spring 2023

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	04/18/2023 04/18/2023	Marvin Marshall

LM Start	0.25	Rating **	M	Issue No.	1 (cont)
LM End	0.25	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.597277°	38.597277°
				-121.543264°	-121.543264°
DWR ID	25546				

Photo 2 of 3 : UCIP_SP_2023_59983_80011.jpg



Covered concrete box at LS toe

LM Start	0.25	Rating **	M	Issue No.	1 (cont)
LM End	0.25	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2023_59983_80012.jpg



Pipe inlet concrete box is covered with metal sheeting

LM Start	2.03	Rating **	U	Issue No.	58
LM End	2.05	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.599786°	38.599442°
				-121.513973°	-121.513698°
DWR ID	DWR_MA0004_01_s_2021_58				
Comment Code					
FE : Fence					
Inspector Comment					
Chain link fence with privacy slats in the LS easement.					

Photo 1 of 1 : SP_2023_MA0004_298_58_20230306_00016.jpg



Fencing along LS toe of slope. Fall 2021

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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2023

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	04/18/2023 04/18/2023	Marvin Marshall

LM Start	2.05	Rating **	M	Issue No.	14
LM End	2.21	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.599439°	38.597533°
				-121.513708°	-121.513134°
DWR ID	DWR_MA0004_01_s_2017_14				
Comment Code					
FE : Fence					
Inspector Comment					
Landscaping and fence block access and visibility.					

Photo 1 of 1 : SP_2023_MA0004_298_14_20230306_00004.jpg



View of the fence along the LS levee toe. Spring 2021.

LM Start	2.11	Rating **	M	Issue No.	50
LM End	2.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.598708°	38.598142°
				-121.513104°	-121.512695°
DWR ID	DWR_MA0004_01_f _ 2021_50				
Comment Code					
T1 : Trim and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim trees to 5' above grade.					

Photo 1 of 1 : SP_2023_MA0004_298_50_20230306_00015.jpg



Trees on the WS slope to be trimmed 5' above grade. Fall 2021

LM Start	2.25	Rating **	M	Issue No.	49
LM End	2.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.596989°	38.596989°
				-121.513261°	-121.513261°
DWR ID	DWR_MA0004_01_f_2021_49				
Comment Code					
T1 : Trim and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim trees to 5' above grade within 10' of the toe of slope.					

Photo 1 of 1 : SP_2023_MA0004_298_49_20230306_00014.jpg



Small oak tree grove on the LS slope. Fall 2021

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

Levee Inspection Report By Mile - Spring 2023

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	04/18/2023 04/18/2023	Marvin Marshall

LM Start	2.41	Rating **	M	Issue No.	46
LM End	2.41	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.594700°	38.594700°
				-121.512276°	-121.512276°
DWR ID	DWR_MA0004_01_s_2023_46				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove pruning piles from waterside embankment.					

Photo 1 of 1 : SP_2023_MA0004_298_46_20230418_00022.jpg



Pruning piles on the waterside berm. Spring 2023

LM Start	2.50	Rating **	U	Issue No.	4
LM End	2.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Rills			38.593472°	38.593472°
				-121.512047°	-121.512047°
DWR ID	DWR_MA0004_01_s_2023_4				
Comment Code					
E5 : Schedule repair of rills prior to the next inspection.					
Inspector Comment					
Repair rilling on the WS slope.					

Photo 1 of 1 : SP_2023_MA0004_298_4_20230418_00023.jpg



Rilling on the WS slope. Spring 2023

LM Start	2.69	Rating **	A/W	Issue No.	5
LM End	3.08	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.591015°	38.586473°
				-121.510900°	-121.508088°
DWR ID	DWR_MA0004_01_s_2023_5				
Comment Code					
LC : Authorized Levee Construction					
Inspector Comment					
Newly paved bike trail prevents inspection from LM 2.69-3.08. Issues in this area are marked A/W until accessible for inspection.					

Photo 1 of 1 : SP_2023_MA0004_298_5_20230418_00024.jpg



Newly paved bike trail on the crown. Spring 2023

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

Levee Inspection Report By Mile - Spring 2023

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	04/18/2023 04/18/2023	Marvin Marshall

LM Start	2.89	Rating **	A/W	Issue No.	44
LM End	2.89	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.589183°	38.589183°
				-121.508032°	-121.508032°
DWR ID	DWR_MA0004_01_s_2021_44				
Comment Code					
T2 : Tree or limb.					
Inspector Comment					
Remove large cut trunks and branches from landside easement.					

Photo 1 of 1 : SP_2023_MA0004_298_44_20230306_00011.jpg



Large tree trunk at tow of LS slope. Fall 2022

LM Start	2.92	Rating **	A/W	Issue No.	47
LM End	2.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Rills			38.588824°	38.588223°
				-121.507904°	-121.507876°
DWR ID	DWR_MA0004_01_s_2022_47				
Comment Code					
E5 : Schedule repair of rills prior to the next inspection.					
Inspector Comment					
Repair rilling, footpaths and burrows on the WS slope.					

Photo 1 of 1 : SP_2023_MA0004_298_47_20230306_00013.jpg



Rilling, burrows and footpaths on the waterside slope. Fall 2022

LM Start	2.92	Rating **	A/W	Issue No.	23
LM End	2.95	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.588762°	38.588384°
				-121.507951°	-121.507894°
DWR ID	DWR_MA0004_01_f_2016_23				
Comment Code					
FE : Fence					
Inspector Comment					
Fence along toe of LS levee slope prevents access and visibility.					

Photo 1 of 2 : SP_2023_MA0004_298_23_20230306_00006.jpg



View of the fence on the LS toe. Fall 2021.

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

Levee Inspection Report By Mile - Spring 2023

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	04/18/2023 04/18/2023	Marvin Marshall

LM Start	2.92	Rating **	A/W	Issue No.	23 (cont)
LM End	2.95	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.588762°	38.588384°
				-121.507951°	-121.507894°
DWR ID	DWR_MA0004_01_f_2016_23				

Photo 2 of 2 : SP_2023_MA0004_298_23_20230306_00007.jpg



View of the fence on the LS levee slope. Spring 2021.

LM Start	3.08	Rating **	A/W	Issue No.	12
LM End	3.45	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.586434°	38.581349°
				-121.508090°	-121.509547°
DWR ID	DWR_MA0004_01_s_2012_12				

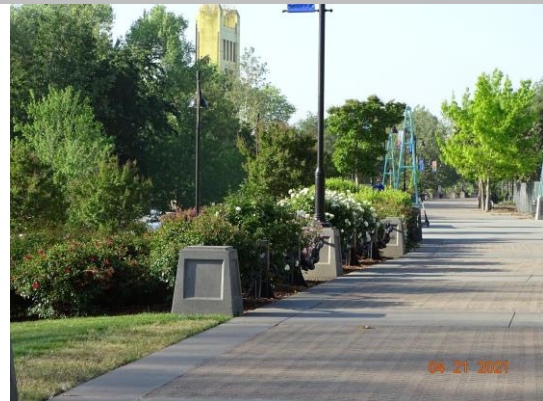
Comment Code

V6 : Landscaping

Inspector Comment

West Sacramento's River Walk runs from the Tower Bridge to the I Street bridge.

Photo 1 of 1 : SP_2023_MA0004_298_12_20230306_00003.jpg



View of the landscaping on River Walk. Spring 2021.

LM Start	3.09	Rating **	M	Issue No.	41
LM End	3.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.586332°	38.586332°
				-121.508080°	-121.508075°
DWR ID	DWR_MA0004_01 f _ 2021_41				

Comment Code

T1 : Trim and thin trees to at least five feet above ground level to allow visibility of the ground and room to flood fight.

Inspector Comment

Trim trees to 5' above grade.

Photo 1 of 1 : SP_2023_MA0004_298_41_20230306_00010.jpg



Trees to be trimmed 5' above grade. Fall 2021

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

Levee Inspection Report By Mile - Spring 2023

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	04/18/2023 04/18/2023	Marvin Marshall

LM Start	3.24	Rating **	M	Issue No.	27
LM End	3.29	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.584168°	38.583435°
				-121.508632°	-121.508785°
DWR ID	DWR_MA0004_01_f_2015_27				
Comment Code					
FE : Fence					
Inspector Comment					
The fence on the levee shoulder appears to be unauthorized.					

Photo 1 of 1 : SP_2023_MA0004_298_27_20230306_00008.jpg



View of the fence on the LS levee shoulder. Spring 2021.

LM Start	3.29	Rating **	A/W	Issue No.	59
LM End	3.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.583437°	38.583437°
				-121.508788°	-121.508788°
DWR ID	DWR_MA0004_01_f_2020_59				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Burrows visible near top of levee in planter do not appear to be active. Continue rodent control program.					

Photo 1 of 1 : SP_2023_MA0004_298_59_20230306_00017.jpg



Rodent burrow in the planter on the WS slope. Fall 2022

LM Start	3.41	Rating **	A/W	Issue No.	71
LM End	3.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.581798°	38.581668°
				-121.509322°	-121.509382°
DWR ID	DWR_MA0004_01_s_2020_71				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Burrows do not appear to be active. Continue to monitor and control.					

No Photos

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