

Flood Control Project Maintenance
2014 Structure Summary Report
Overall Unit and Item Ratings

Lake County Watershed Protection District

Clover Creek Diversion Structure

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	N
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	A
	Trash Racks	N
	Flap Gates	N
	Sluice/Slide Gates	A
	Electric Gate Operators	N
	Manual Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	A
	Monolith Joints	N
	Safety	A
	Operation & Maintenance Manual	A

Flood Control Project Maintenance**Unit Cover Sheet****2014 Structure Inspection Results****Lake County Watershed Protection District**

Structure
Clover Creek Diversion Structure

Structure Rating	A
Date of Inspection	08/12/2014
DWR Inspector	Pavel Kazi
Accompanied By	Bob Duffey DWR

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2014

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		08/12/2014 08/12/2014	Pavel Kazi

LM Start	0.00	Rating **	N	Issue No.	1
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Photo Documentation		39.177050 °	39.177050 °	
			-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_1				
Action/Comments					
Inspector Comments: Clover Creek Diversion Structure has three culverts with two flap and slide gates to divert the water during high water season.					

Photo 1 of 1 : ST_2014_NA0009_36_1_20140813_00009.jpg



View of the new diversion structure.

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation & Obstructions		39.177050 °	39.177050 °	
			-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_2				
Action/Comments					
Inspector Comments: The channel had minimal vegetation and scattered obstructions, but the flow is not impeded.					

Photo 1 of 2 : ST_2014_NA0009_36_2_20140813_00010.jpg



View of the vegetation at the inlet of the structure.

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

Photo 2 of 2 : ST_2014_NA0009_36_2_20140813_00011.jpg



View of the vegetation at the outlet of the structure.

* 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 - Structure 2014

Lake County Watershed Protection District

Structure		Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure			08/12/2014 08/12/2014	Pavel Kazi

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start	End		
Item	Shoaling / Sedimentation	39.177050 °	39.177050 °		
		-122.898750 °	-122.898750 °		
DWR ID	DWR_NA0009_36_t_2012_3				
Action/Comments					
Inspector Comments: No sediment was present during the inspection.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start	End		
Item	Erosion / Bank Caving	39.177050 °	39.177050 °		
		-122.898750 °	-122.898750 °		
DWR ID	DWR_NA0009_36_t_2012_4				
Action/Comments					
Inspector Comments: There was no visible active erosion or bank caving observed.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels	GPS Latitude/Longitude			
		Start	End		
Item	Revetments	39.177050 °	39.177050 °		
		-122.898750 °	-122.898750 °		
DWR ID	DWR_NA0009_36_t_2012_5				
Action/Comments					
Inspector Comments: No revetment exists at this structure.					

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 - Structure 2014

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		08/12/2014 08/12/2014	Pavel Kazi

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.177050 °	39.177050 °	
			-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_6				
Action/Comments					
Inspector Comments: No trash or debris were present in the channel.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Culverts: Inlets / Outlets		39.177050 °	39.177050 °	
			-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_7				
Action/Comments					
Inspector Comments: Minimal vegetation was found on the outlet culvert of the structure.					

Photo 1 of 2 : ST_2014_NA0009_36_7_20140813_00015.jpg



View of the culvert inlet.

LM Start	0.00	Rating **	A	Issue No.	7 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 2 : ST_2014_NA0009_36_7_20140813_00013.jpg



View of the culvert outlet.

* 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 - Structure 2014

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		08/12/2014 08/12/2014	Pavel Kazi

LM Start	0.00	Rating **	A	Issue No.	8
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Culverts: Breaks / Holes / Cracks		39.177050 °	39.177050 °	
			-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_8				
Action/Comments					
Inspector Comments: There were no visible holes or cracks in the					

No Photos

LM Start	0.00	Rating **	A	Issue No.	9
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Metal Pipes		39.177050 °	39.177050 °	
			-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_9				
Action/Comments					
Inspector Comments: The metal pipes appeared to be in good condition.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	10
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Trash Racks		39.177050 °	39.177050 °	
			-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0060_36_t_2013_10				
Action/Comments					
Inspector Comments: There no trash racks exist at this structure.					

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 - Structure 2014

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		08/12/2014 08/12/2014	Pavel Kazi

LM Start	0.00	Rating **	N	Issue No.	11
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Flap Gates		39.177050 °	39.177050 °	
			-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_11				
Action/Comments					
Inspector Comments: Flap gates don't exist at this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Sluice/Slide Gates		39.177050 °	39.177050 °	
			-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_12				
Action/Comments					
Inspector Comments: The slide gates appeared to be in good working condition.					

Photo 1 of 1 : ST_2014_NA0009_36_12_20140813_00014.jpg



View of the slide gate.

LM Start	0.00	Rating **	N	Issue No.	13
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Electric Gate Operators		39.177050 °	39.177050 °	
			-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_13				
Action/Comments					
Inspector Comments: Electric gate operators do not exist at this location.					

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 - Structure 2014

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		08/12/2014 08/12/2014	Pavel Kazi

LM Start	0.00	Rating **	A	Issue No.	14
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Manual Gate Operators		39.177050 °	39.177050 °	
			-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_14				
Action/Comments					
Inspector Comments: The manual gate operators appeared to be operational.					

Photo 1 of 2 : ST_2014_NA0009_36_14_20140813_00016.jpg



View of the manual gate operator during 2014 inspection.

LM Start	0.00	Rating **	A	Issue No.	14 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 2 : ST_2014_NA0009_36_14_20140709_00007.jpg



View of the manual gate operator during 2013 inspection.

LM Start	0.00	Rating **	A	Issue No.	15
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Concrete Surfaces		39.177050 °	39.177050 °	
			-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_15				
Action/Comments					
Inspector Comments: There was no scaling or cracking on the concrete					

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 - Structure 2014

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		08/12/2014 08/12/2014	Pavel Kazi

LM Start	0.00	Rating **	A	Issue No.	16
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Concrete Tilting / Settlement		39.177050 °	39.177050 °	
			-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_16				
Action/Comments					
Inspector Comments: There was no sign of settlement or tilting at this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Concrete Foundations		39.177050 °	39.177050 °	
			-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0060_36_t_2013_24				
Action/Comments					
Inspector Comments: There was no scouring or erosion near the structure.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	18
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Security Fencing		39.177050 °	39.177050 °	
			-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_18				
Action/Comments					
Inspector Comments: Security fences do not exist at this location.					

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 - Structure 2014

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		08/12/2014 08/12/2014	Pavel Kazi

LM Start	0.00	Rating **	N	Issue No.	19
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Closure Structures		39.177050 °	39.177050 °	
			-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_19				
Action/Comments					
Inspector Comments: Closure structure doesn't exist at this location.					

No Photos

LM Start	0.00	Rating **	N	Issue No.	20
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Trash Rakes		39.177050 °	39.177050 °	
			-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_20				
Action/Comments					
Inspector Comments: There are no trash rakes at this structure.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	21
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Other Metallic Items		39.177050 °	39.177050 °	
			-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_21				
Action/Comments					
Inspector Comments: Metallic parts are appeared to be in a good condition.					

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 - Structure 2014

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		08/12/2014 08/12/2014	Pavel Kazi

LM Start	0.00	Rating **	N	Issue No.	22
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Monolith Joints		39.177050 °	39.177050 °	
			-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_22				
Action/Comments					
Inspector Comments: Monolith joints do not exist at this location.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	23
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Safety		39.177050 °	39.177050 °	
			-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0009_36_t_2012_23				
Action/Comments					
Inspector Comments: New steel handrail was placed around the structure. No safety hazard was present.					

Photo 1 of 2 : ST_2014_NA0009_36_23_20140813_00017.jpg



View of the new steel handrails during 2014 inspection.

LM Start	0.00	Rating **	A	Issue No.	23 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 2 : ST_2014_NA0009_36_23_20140709_00008.jpg



View of the wooden guard rail during 2013 inspection.

* 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 - Structure 2014

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		08/12/2014 08/12/2014	Pavel Kazi

LM Start	0.00	Rating **	A	Issue No.	17
LM End	0.00	Issue Type +	Ma	Location *	
Category	Structures & Concrete Lined Channels		GPS Latitude/Longitude		
			Start	End	
Item	Operation & Maintenance Manual		39.177050 °	39.177050 °	
			-122.898750 °	-122.898750 °	
DWR ID	DWR_NA0060_36_t_2013_17				
Action/Comments					
Inspector Comments: This district has the O&M manual in the office.					

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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