

Flood Control Project Maintenance
2010 Structure Summary Report
Overall Unit and Item Ratings

Sacramento County

American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05

Overall Unit Rating	Rated Item	Item Rating
A	Operating Log	A
	Operation & Maintenance Manual	A
	Plant Building	A
	Communications	A
	Safety	A
	Cranes	A
	Pumps	A
	Power	A
	Motors, Engines, Fans & Gear Reducers	A
	Pump Control Systems	A
	Sumps/Wet Well	A
	Trash Racks	A
	Trash Rakes	A
	Sluice / Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	A
	Other Metallic Items	A
	Flap Gates	A
	Closure Structures	N
	Security Fencing	A
	Intake and Discharge Pipes	A
	Pressurized Pipe	A

American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43

Overall Unit Rating	Rated Item	Item Rating
A	Operating Log	A
	Operation & Maintenance Manual	A
	Plant Building	A
	Communications	A
	Safety	A
	Cranes	A
	Pumps	A
	Power	A
	Motors, Engines, Fans & Gear Reducers	A
	Pump Control Systems	A
	Sumps/Wet Well	A
	Trash Racks	A
	Trash Rakes	N
	Sluice / Slide Gates	A
	Electric Gate Operators	A
	Manual Gate Operators	A
	Other Metallic Items	A
	Flap Gates	A
	Closure Structures	N
	Security Fencing	A
	Intake and Discharge Pipes	A
	Pressurized Pipe	A

Flood Control Project Maintenance
Unit Cover Sheet
2010 Pumping Plant Inspection Results

Sacramento County

Pumping Plant
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05

Pumping Plant Rating	A
Date of Inspection	6/17/2010
DWR Inspector	John Paasch
Accompanied By	Jon Money Sacramento County

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		06/17/2010 06/17/2010	John Paasch

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1	0.00	0.00	Pump Stations	Operating Log		A	Inspector Comments: Maintenance log present at the pump station and is being used and updated.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °		1
2	0.00	0.00	Pump Stations	Operation & Maintenance Manual		A	Inspector Comments: O&M manual is present at site	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	Y	2
3	0.00	0.00	Pump Stations	Plant Building		A	Inspector Comments: Building appears in good structural and operational condition.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	Y	3
4	0.00	0.00	Pump Stations	Communications		A	Inspector Comments: Telephones present. Operators have cellular and radio communication.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °		4
5	0.00	0.00	Pump Stations	Safety		A	Inspector Comments: No appearant safety hazards observed that pose a threat to plant operators.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °		5
6	0.00	0.00	Pump Stations	Cranes		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Crane and hoist appears to be in good working condition.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °		6
7	0.00	0.00	Pump Stations	Pumps		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Pumps appear properly maintained and lubricated.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	Y	7
8	0.00	0.00	Pump Stations	Power		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: No electrical deficiencies were observed. Backup power on site.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	Y	8
9	0.00	0.00	Pump Stations	Motors, Engines, Fans & Gear Reducers		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Motors appear properly maintained and lubricated.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °		9
10	0.00	0.00	Pump Stations	Pump Control Systems		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Automatic and manual controls are free of damage and appear to operate properly.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °		10
11	0.00	0.00	Pump Stations	Sumps/Wet Well		A	Inspector Comments: Sump appears to be clear of excessive debris and sediment.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	Y	11
12	0.00	0.00	Pump Stations	Trash Racks		A	Inspector Comments: Trash racks are fastened in place and properly maintained.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	Y	12

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		06/17/2010 06/17/2010	John Paasch

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
13	0.00	0.00	Pump Stations	Trash Rakes		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Mechanical trash rakes appear to be in good operating condition.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	Y	13
14	0.00	0.00	Pump Stations	Sluice / Slide Gates		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Sluice gates could not be accessed during inspection.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °		14
15	0.00	0.00	Pump Stations	Electric Gate Operators		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Electric gate operators appear in good working condition.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °		15
16	0.00	0.00	Pump Stations	Manual Gate Operators		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Manual gate operators appear in good working condition.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	Y	16
17	0.00	0.00	Pump Stations	Other Metallic Items		A	Inspector Comments: Metal parts are protected from corrosion.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °		17
18	0.00	0.00	Pump Stations	Flap Gates		A	Inspector Comments: Flap gates open easily and close completely and appear to be in good condition.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	Y	18
19	0.00	0.00	Pump Stations	Closure Structures		N	Inspector Comments: Item not present at this site.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °		19
20	0.00	0.00	Pump Stations	Security Fencing		A	Inspector Comments: Fencing provides adequate protection against unauthorized access.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °		20
21			Pump Stations	Intake and Discharge Pipes		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: No evidence of leaks or erosion caused by pipes.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °		21
22	0.00	0.00	Pump Stations	Pressurized Pipe		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: No evidence of corrosion, erosion or leakage of pressurized pipe was found in the wet well.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	Y	22

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		06/17/2010 06/17/2010	John Paasch

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Operation & Maintenance Manual
Operation and Maintenance manuals for facility are onsite.	
jpaasch_t_20100817_063.jpg	



Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Plant Building
Photo of pumping plant building.	
jpaasch_t_20100817_064.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pumps
Photo of building interior with five of six pump motors in view.	
jhirabay_t_20100916_074.jpg	



<p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p>** Rating</p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated</p>
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		06/17/2010 06/17/2010	John Paasch

Levee Mile Report Line	8
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Power
Photo of commercial power and backup power. Weeds present around transformer pads.	
jpaasch_t_20100817_065.jpg	



Levee Mile Report Line	11
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Sumps/Wet Well
Wet well appears free of obstructive debris.	
jpaasch_t_20100817_067.jpg	



Levee Mile Report Line	11
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Sumps/Wet Well
Wet well appears free of obstructive debris. Second set of trash racks prevent debris from entering sump.	
jpaasch_t_20100817_070.jpg	



<p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p>** Rating</p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated</p>
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		06/17/2010 06/17/2010	John Paasch

Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Trash Racks
Trash racks and rakes are free of debris.	
jpaasch_t_20100817_068.jpg	



Levee Mile Report Line	13
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Trash Rakes
Mechanical trash rakes and controls appear in good working condition.	
jpaasch_t_20100817_069.jpg	



Levee Mile Report Line	16
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Manual Gate Operators
Electrical and manual gate operators appear to be in good working condition.	
jpaasch_t_20100817_071.jpg	



<p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p>** Rating</p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated</p>
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		06/17/2010 06/17/2010	John Paasch

Levee Mile Report Line	18
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Flap Gates
Photo of outfall structure, flap gates and gate operators.	
jpaasch_t_20100817_072.jpg	



Levee Mile Report Line	22
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pressurized Pipe
Photo looking down into the wet well. Pipe appears to be in good condition.	
jpaasch_t_20100817_073.jpg	



<p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p>** Rating</p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated</p>
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Flood Control Project Maintenance
Unit Cover Sheet
2010 Pumping Plant Inspection Results

Sacramento County

Pumping Plant
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43

Pumping Plant Rating	A
Date of Inspection	8/17/2010
DWR Inspector	John Paasch
Accompanied By	Jon Money Sacramento County

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43		08/17/2010 08/17/2010	John Paasch

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1	0.00	0.00	Pump Stations	Operating Log		A	Inspector Comments: Operation of pumping plant is recorded in log.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °		1
2	0.00	0.00	Pump Stations	Operation & Maintenance Manual		A	Inspector Comments: O&M manual is present at site.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °	Y	2
3	0.00	0.00	Pump Stations	Plant Building		A	Inspector Comments: Building appears in good structural and operational condition.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °	Y	3
4	0.00	0.00	Pump Stations	Communications		A	Inspector Comments: Operators have cellular and radio communication.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °		4
5	0.00	0.00	Pump Stations	Safety		A	Inspector Comments: No apparent safety hazards observed that pose a threat to plant operators.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °		5
6	0.00	0.00	Pump Stations	Cranes		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Crane and hoist appears to be in good working condition.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °		6
7	0.00	0.00	Pump Stations	Pumps		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Pumps appear properly maintained and lubricated.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °	Y	7
8	0.00	0.00	Pump Stations	Power		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: No electrical deficiencies were observed. Placement and use of backup power present at site.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °	Y	8
9	0.00	0.00	Pump Stations	Motors, Engines, Fans & Gear Reducers		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Motors appear to be properly maintained and operational.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °		9
10	0.00	0.00	Pump Stations	Pump Control Systems		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Automatic and manual controls are free of damage and appear to operate properly.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °		10
11	0.00	0.00	Pump Stations	Sumps/Wet Well		A	Inspector Comments: Sump appears to be clear of excessive debris and sediment.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °	Y	11

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43		08/17/2010 08/17/2010	John Paasch

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
12	0.00	0.00	Pump Stations	Trash Racks		A	Inspector Comments: Trash racks are fastened in place and properly maintained.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °	Y	12
13	0.00	0.00	Pump Stations	Trash Rakes		N	Inspector Comments: Mechanical trash rakes are not present at this site.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °		13
14	0.00	0.00	Pump Stations	Sluice / Slide Gates		A	Inspector Comments: Item not accessible for visual inspection.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °		14
15	0.00	0.00	Pump Stations	Electric Gate Operators		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Electric gate operators appear in good working condition.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °	Y	15
16	0.00	0.00	Pump Stations	Manual Gate Operators		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Manual gate operators appear in good working condition.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °		16
17	0.00	0.00	Pump Stations	Other Metallic Items		A	Inspector Comments: Metal parts are protected from corrosion damage.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °		17
18	0.00	0.00	Pump Stations	Flap Gates		A	Inspector Comments: Flap gates open freely and close completely and appear to be in good condition.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °	Y	18
19	0.00	0.00	Pump Stations	Closure Structures		N	Inspector Comments: Item not present at this site.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °		19
20	0.00	0.00	Pump Stations	Security Fencing		A	Inspector Comments: Fencing provides adequate protection against unauthorized access.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °		20
21	0.00	0.00	Pump Stations	Intake and Discharge Pipes		A	Inspector Comments: No evidence of leaks or erosion from pipes.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °		21
22	0.00	0.00	Pump Stations	Pressurized Pipe		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Visible segments of pressurized pipe in the wet well appear free of corrosion and leaks.	38.569677 ° -121.374771 °	38.569677 ° -121.374771 °	Y	22

<p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p>** Rating</p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated</p>
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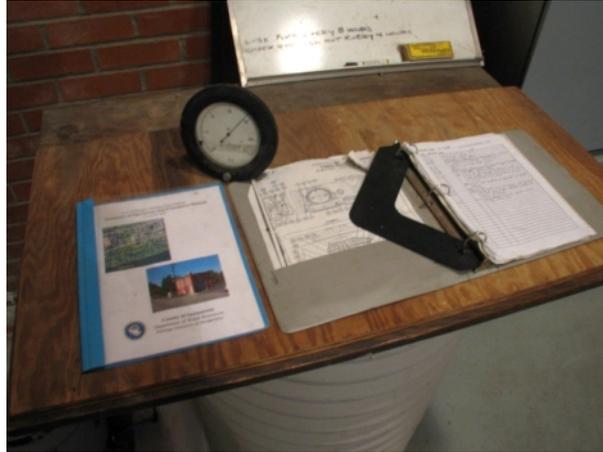
**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43		08/17/2010 08/17/2010	John Paasch

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Operation & Maintenance Manual
Photo of operation manual and maintenance logs.	
jpaasch_t_20100817_074.jpg	



Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Plant Building
Photo of pumping plant building.	
jpaasch_t_20100817_075.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pumps
Photo of three pump motors.	
jhirabay_t_20100916_083.jpg	



<p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p>** Rating</p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated</p>
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43		08/17/2010 08/17/2010	John Paasch

Levee Mile Report Line	8
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Power
Photo of generator backup.	
jpaasch_t_20100817_076.jpg	



Levee Mile Report Line	11
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Sumps/Wet Well
Wet well appears free of debris and sediment.	
jpaasch_t_20100817_078.jpg	



Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Trash Racks
Photo of trash racks and exterior of building.	
jpaasch_t_20100817_079.jpg	



<p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p>** Rating</p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated</p>
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43		08/17/2010 08/17/2010	John Paasch

Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Electric Gate Operators
Photo of electric and manual gate operators for gates between pumps and the outfall.	
jpaasch_t_20100817_080.jpg	



Levee Mile Report Line	18
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Flap Gates
Photo of flap gates and the outfall structure.	
jpaasch_t_20100817_081.jpg	



Levee Mile Report Line	22
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pressurized Pipe
Metal pipe appears free of corrosion and leaks.	
jpaasch_t_20100817_082.jpg	



<p>* Location</p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p>** Rating</p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p>	<p>PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected/Rated</p>
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