

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

Turlock Irrigation District Gomes Lake

Gomes Lake Pumping Plant

Overall Unit Rating	Rated Item	Item Rating
A	Operating Log	A
	Operation & Maintenance Manual	A
	Plant Building	A
	Communications	A
	Safety	A
	Cranes	N
	Pumps	A
	Power	A
	Motors, Engines, Fans & Gear Reducers	N
	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

Turlock Irrigation District Gomes Lake

Pumping Plant
Gomes Lake Pumping Plant

Pumping Plant Rating	A
Date of Inspection	8/19/2010
DWR Inspector	David Pesavento
Accompanied By	Les Barrigar TID

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Gomes Lake

Structure	Structure Length	Inspection Start/End	Inspector
Gomes Lake Pumping Plant		08/19/2010 08/19/2010	David Pesavento

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: A copy is kept at office, was brought to the station during the inspection. A copy will be kept at the station.	37.481567 ° -121.046617 °	37.481567 ° -121.046617 °		1
2	0.00	0.00	Pump Stations	Operation & Maintenance Manual		A	Inspector Comments: A copy is kept at office, will bring a copy to the station ASAP.	37.481567 ° -121.046617 °	37.481567 ° -121.046617 °		2
3	0.00	0.00	Pump Stations	Plant Building		A	Inspector Comments: The plant is maintained in good condition with no apparent issues that would affect the operation. Minor vandalism occurs, mostly bullet holes.	37.481567 ° -121.046617 °	37.481567 ° -121.046617 °	Y	3
4	0.00	0.00	Pump Stations	Communications		A	Inspector Comments: Personnel carry cell phones.	37.481567 ° -121.046617 °	37.481567 ° -121.046617 °		4
5	0.00	0.00	Pump Stations	Safety		A	Inspector Comments: There were no significant hazards to plant personnel observed. The lights at the plant have been shot out, but maintenance staff are unable to prevent any installed lights from being shot at.	37.481567 ° -121.046617 °	37.481567 ° -121.046617 °		5
6	0.00	0.00	Pump Stations	Cranes		N	Inspector Comments: There is no crane at this station.	37.481567 ° -121.046617 °	37.481567 ° -121.046617 °		6
7	0.00	0.00	Pump Stations	Pumps		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Several weeks prior to the inspection vandals cut and attempted to remove the wires to the pumps. The pumps were not operational during the inspection but will be prior to November 1.	37.481567 ° -121.046617 °	37.481567 ° -121.046617 °	Y	7
8	0.00	0.00	Pump Stations	Power		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: The maintaining agency is also the power provider for this plant and can prioritize any necessary repairs to the power grid or provide other generating methods.	37.481567 ° -121.046617 °	37.481567 ° -121.046617 °	Y	8
9	0.00	0.00	Pump Stations	Motors, Engines, Fans & Gear Reducers		N	Inspector Comments: There are no electrical or mechanical motors at this plant other than the pumps and gate operators.	37.481567 ° -121.046617 °	37.481567 ° -121.046617 °		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: The equipment appeared to be well maintained and operational. Due to the recent vandalism, the power was turned off during the inspection.	37.481567 ° -121.046617 °	37.481567 ° -121.046617 °	Y	10

* 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

Gomes Lake

Structure	Structure Length	Inspection Start/End	Inspector
Gomes Lake Pumping Plant		08/19/2010 08/19/2010	David Pesavento

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
11	0.00	0.00	Pump Stations	Sumps/Wet Well		A	Inspector Comments: No debris was observed in the sump area.	37.481567 ° -121.046617 °	37.481567 ° -121.046617 °	Y	11
12	0.00	0.00	Pump Stations	Trash Rakes		A	Inspector Comments: The trash rakes appeared to be structurally sound and adequately maintained. No significant debris was observed on them. The hinges on the door to the sump was damaged and a temporary repair in place. A more permanent repair is needed.	37.481567 ° -121.046617 °	37.481567 ° -121.046617 °	Y	12
13	0.00	0.00	Pump Stations	Trash Rakes		N	Inspector Comments: Trash rakes are manually cleared.	37.481567 ° -121.046617 °	37.481567 ° -121.046617 °		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: The gates appeared to be functional but were not moved during this inspection.	37.481567 ° -121.046617 °	37.481567 ° -121.046617 °	Y	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: The operators are control onsite but were not tested during this inspection. They appear to be capable of performing and adequately maintained.	37.481567 ° -121.046617 °	37.481567 ° -121.046617 °	Y	15
16	0.00	0.00	Pump Stations	Manual Gate Operators		A	Inspector Comments: The manual gate operators appeared to be in good repair and one of them was able to be turned freely. Recommend having some tools on hand to engage the manual wheels.	37.481567 ° -121.046617 °	37.481567 ° -121.046617 °		16
17	0.00	0.00	Pump Stations	Other Metallic Items		A	Inspector Comments: Some rust was observed on the handrails and other metal at the plant, but none that would affect the performance of the plant.	37.481567 ° -121.046617 °	37.481567 ° -121.046617 °		17
18	0.00	0.00	Pump Stations	Flap Gates		A	Inspector Comments: The flap gates appeared to be capable of performing as intended.	37.481567 ° -121.046617 °	37.481567 ° -121.046617 °	Y	18
19	0.00	0.00	Pump Stations	Closure Structures		N	Inspector Comments: There are no closure structures at this plant.	37.481567 ° -121.046617 °	37.481567 ° -121.046617 °		19
20	0.00	0.00	Pump Stations	Security Fencing		A	Inspector Comments: The plant has a gate capable of restricting access to the pumps.	37.481567 ° -121.046617 °	37.481567 ° -121.046617 °		20
21	0.00	0.00	Pump Stations	Intake and Discharge Pipes		A	Inspector Comments: There was no evidence of any breaks in the pipes observed during the inspection.	37.481567 ° -121.046617 °	37.481567 ° -121.046617 °		21

* 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

Gomes Lake

Structure	Structure Length	Inspection Start/End	Inspector
Gomes Lake Pumping Plant		08/19/2010 08/19/2010	David Pesavento

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
22	0.00	0.00	Pump Stations	Pressurized Pipe		A	Inspector Comments: There was no evidence of any breaks in the pipes observed during the inspection.	37.481567 °	37.481567 °		22
								-121.046617 °	-121.046617 °		

*** 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

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Gomes Lake

Structure	Structure Length	Inspection Start/End	Inspector
Gomes Lake Pumping Plant		08/19/2010 08/19/2010	David Pesavento

Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Plant Building

View of cavity forming under sluice gate structure.

dpesaven_t_20100906_119.jpg



Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Plant Building

View of station from the southern waterward side.

dpesaven_t_20100906_120.jpg



Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Plant Building

View of the station from the southern crown.

dpesaven_t_20100906_121.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Gomes Lake

Structure	Structure Length	Inspection Start/End	Inspector
Gomes Lake Pumping Plant		08/19/2010 08/19/2010	David Pesavento

Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Plant Building
View of the station from the northern crown.	
dpesaven_t_20100906_122.jpg	



Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Plant Building
View of the station from the south.	
dpesaven_t_20100906_123.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pumps
View of one of the pumps.	
dpesaven_t_20100906_127.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Gomes Lake

Structure	Structure Length	Inspection Start/End	Inspector
Gomes Lake Pumping Plant		08/19/2010 08/19/2010	David Pesavento

Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pumps
View of two of the pumps.	
dpesaven_t_20100906_128.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pumps
Close-up view of one of the pumps where thieves recently attempted to steal the wiring.	
dpesaven_t_20100906_129.jpg	



Levee Mile Report Line	8
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Power
View of the transformers and power supply for the station.	
dpesaven_t_20100906_126.jpg	



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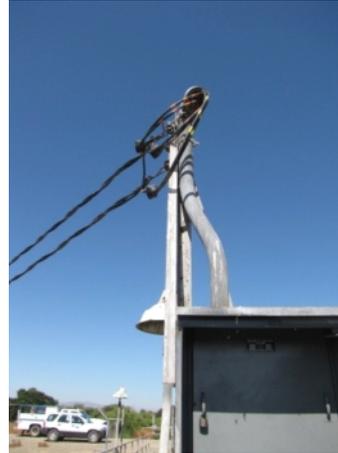
**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Gomes Lake

Structure	Structure Length	Inspection Start/End	Inspector
Gomes Lake Pumping Plant		08/19/2010 08/19/2010	David Pesavento

Levee Mile Report Line	8
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Power
View of the power connection to the station.	
dpesaven_t_20100906_130.jpg	



Levee Mile Report Line	10
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pump Control Systems
View of the power and control cabinets.	
dpesaven_t_20100906_131.jpg	



Levee Mile Report Line	10
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pump Control Systems
Closer view of the control cabinet.	
dpesaven_t_20100906_132.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Gomes Lake

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Levee Mile Report Line	10
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pump Control Systems
View of the SCADA and level sensing equipment.	
dpesaven_t_20100906_133.jpg	



Levee Mile Report Line	10
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pump Control Systems
View of the sonar level sensing control cabinet for monitoring the level outside the sump.	
dpesaven_t_20100906_134.jpg	



Levee Mile Report Line	11
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Sumps/Wet Well
View of the sump under the plant.	
dpesaven_t_20100906_124.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Gomes Lake

Structure	Structure Length	Inspection Start/End	Inspector
Gomes Lake Pumping Plant		08/19/2010 08/19/2010	David Pesavento

Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Trash Racks
View of the gate in the trash rack. Note the wire acting as the hinges.	
dpesaven_t_20100906_125.jpg	



Levee Mile Report Line	14
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Sluice / Slide Gates
View of one of the slide gates.	
dpesaven_t_20100722_071.jpg	



Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Electric Gate Operators
View of one of the sluice gate operators.	
dpesaven_t_20100906_116.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2010

Gomes Lake

Structure	Structure Length	Inspection Start/End	Inspector
Gomes Lake Pumping Plant		08/19/2010 08/19/2010	David Pesavento

Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Electric Gate Operators
Overall view of the three sluice gate operators.	
dpesaven_t_20100906_117.jpg	



Levee Mile Report Line	18
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Flap Gates
View of the outfall and flap gates.	
dpesaven_t_20100906_118.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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