

Summary of Investigation Findings

CITY OF WESLACO WATER PLANT

Investigation # 864412

, HIDALGO COUNTY,

Investigation Date: 11/04/2010

Additional ID(s): 1080011

OUTSTANDING ALLEGED VIOLATION(S) ASSOCIATED TO A NOTICE OF VIOLATION

Track No: 379380 Compliance Due Date: To Be Determined

30 TAC Chapter 290.45(b)(2)(A)

30 TAC Chapter 290.45(c)(2)(A)

Alleged Violation:

Investigation: 775148

Comment Date: 10/9/2009

Failure to provide raw water pump capacity of 0.6 gallon per minute per connection with the largest pump out of service.

It was determined on September 22, 2009, by the Investigator when the connection count was completed that the WTP did not provide a raw water pump capacity of 0.6 gallon per minute per connection with the largest pump out of service.

On September 22, 2009, the Investigator compiled the connection count which is 11,951 connections which requires a raw water pump capacity of 10.325 MGD. The City of Weslaco has a raw water pump capacity of 15.12 MGD, however with largest raw water pump out of service the capacity is 8.64 MGD.

Investigation: 864412

Comment Date: 12/8/2010

Failure to provide raw water pump capacity of 0.6 gallon per minute per connection with the largest pump out of service.

Specifically, on the date of the November 4, 2010, investigation, the water system was serving 11,744 active connections which requires a raw water pump capacity of 10.147 MGD with the largest pump out of service. The facility currently provides 8.64 MGD raw water pump capacity with the largest pump out of service (14.9% deficient).

Recommended Corrective Action: Please submit to the TCEQ Harlingen Office a time schedule when construction will begin to modify or upgrade the WTP or submit a compliance plan in upgrading the WTP to provide a raw water pump capacity of 0.6 gallon per minute per connection with the largest raw water pump out of service.

Track No: 379381 Compliance Due Date: To Be Determined

30 TAC Chapter 290.42(d)(11)(B)(v)

Alleged Violation:

Investigation: 775148

Comment Date: 10/23/2009

Failure to meet the maximum daily demand or the minimum 0.6 gallon per minute per connection requirement, whichever is largest, with the largest filter off-line at any surface water treatment plant designed to provide 7.5 million gallons per day or more.

During the investigation conducted on September 17, 2009, the Investigator determined that the Water Treatment Plant (WTP) was not meeting the maximum daily demand from the

reviewing the Monthly Operating Reports (MOR)s. However it was determined on September 22, 2009, when the connection count was completed that the WTP did not meet the minimum 0.6 gallon per minute per connection requirement with the largest filter off-line.

The WTP is rated at ((8.12 mgd) + (0.864 mgd)) well capacity = 8.980 MGD combined water production.

With the largest filter out of service the WTP produces 7.66 MGD

On September 22, 2009, the Investigator compiled the connection (meter) count which is 11,951 connections which requires a water production capacity of 10.325 MGD with the largest filter out of service.

Total Filters product: 11.98 MGD; with largest filter off-line: 7.66.

On September 22, 2009, the Investigator compiled the connection (meter) count which is 11,951 connections which requires a water production capacity of 10.325 MGD. Total Filters product: 11.98 MGD; with largest filter off line: 7.66 GPM. The filters are set up in a way that the one entire plant must be taken out of service in order to work on one filter for each plant whether its Plant 2, Plant 3 or Plant 4.

Investigation: 864412

Comment Date: 12/20/2010

Failure to meet the maximum daily demand or the minimum 0.6 gallon per minute per connection requirement, whichever is largest, with the largest filter off-line at any surface water treatment plant designed to provide 7.5 million gallons per day or more.

Specifically, on the date of the November 4, 2010, investigation, the water system was serving 11,744 connections. The required plant capacity is 10.147 MGD. The water system provides 9.67 MGD with the largest filter offline (Calculated per §290.42(d)(11)(B)(ii) - 4.7% deficient).

Recommended Corrective Action: Please submit to the TCEQ Harlingen Office a time schedule when construction will begin to modify or upgrade the WTP or submit a compliance plan in upgrading the WTP to meet the 0.6 gallon per minute per connection requirement with the largest filter off-line.

Track No: 379448

Compliance Due Date: To Be Determined

30 TAC Chapter 290.45(b)(2)(F)

Alleged Violation:

Investigation: 775148

Comment Date: 10/12/2009

Failure to provide a service pump capacity such that each pump station or pressure plane must have two or more pumps with a total capacity of 2.0 gallons per minute per connection, or a total capacity of 1,000 gallons per minute and be able to meet peak hourly demands with the largest pump out of service.

On September 22, 2009, the Investigator calculated the Service Pumping Capacity Required: (2.0 GPM/Connection) (10,896 Connections+ 1,057 wholesale) = 23,906 GPM. Provided: 9,800 GPM, (NOTE: Lacking 14,106 GPM for Service Pump Capacity), However, the entity does have a high service pump capacity of 1,000 gallons per minute. City of Weslaco has 4 high service pumps: #1- 1000 GPM, # 2- 2000 GPM, #3- 2800 #4- 4,000 GPM = 9,800 GPM. High Service Capacity for City of Weslaco.

In performing the calculations for the meeting the peak hourly demand with the largest pump out of service. Service Pump Peaking Factor

(Maximum Daily Demand)(1.25 Elevated Storage Tank) (ET)

a. Required: (Maximum Daily Demand) (1.25 ET): 8.591 MGD=5966 GPM X

1.25= 7,457 GPM required service pump capacity

City of Weslaco provides: 5,800 GPM with largest high service pump out of service

(NOTE: High Service Pump capacity is lacking 1657 gpm with the largest pump out of service.)

Failure to provide a service pump capacity such that each pump station or pressure plane must have two or more pumps with a total capacity of 2.0 gallons per minute per connection, or a total capacity of 1,000 gallons per minute and be able to meet peak hourly demands with the largest pump out of service.

Specifically, on the date of the November 4, 2010, investigation, the water system was required to provide 6031 GPM. The system currently provides a high service pump capacity of 5800 GPM with the largest pump out of service (8% deficient).

Recommended Corrective Action:

Please submit to the TCEQ Harlingen Office a time schedule when construction will begin to modify or upgrade the WTP or submit a compliance plan in upgrading the WTP to meet peak hourly demands with the largest high service pump out of service.

Track No: 379581

Compliance Due Date: 03/17/2010

30 TAC Chapter 291.93(3)

Alleged Violation:

Investigation: 775148

Comment Date: 10/23/2009

Failure for the retail public utility that possesses a certificate of public convenience and necessity that has reached 85% of its capacity to submit a planning report that clearly explains how the retail public utility will provide expected service demand to the remaining areas within the boundaries of its area for total storage capacity.

On September 23, 2009, Investigator Hinojosa calculated the total storage capacity for the City of Weslaco and his findings were that the total storage capacity required is 2,390,000 gallons. Total Storage Capacity provided by the City of Weslaco is 2,385,000 gallons. After any commission field inspection, the retail public utility must analyze the system's capacity to determine if it has reached 85% of its capacity. If the retail public has reached 85 % of its capacity, it must file a report no later than 90 days after the date of a commission letter detailing results of the inspection.

Investigation: 864412

Comment Date: 12/10/2010

A retail public utility that possesses a certificate of public convenience and necessity that has reached 85% of its capacity as compared to the most restrictive criteria of the commission's minimum capacity requirements in Chapter 290 of this title shall submit to the executive director a planning report that clearly explains how the retail public utility will provide the expected service demands to the remaining areas within the boundaries of its certificated area.

Specifically, on the date of the November 4, 2010, investigation, the water system was required to provide 1,174,400 gallons of elevated storage and 2,348,800 gallons of total storage. The facility currently provides 1,300,000 gallons of elevated storage (capacity at 90%), and 2,385,000 of total storage (capacity at 98.5%).

Recommended Corrective Action: The report should be submitted in writing and should contain the following:

(i) a brief description of the overall utility system and service area;

(ii) an analysis of the plant capacity (Capacity is considered to be the overall rated capacity in number of residential connection equivalents based on the most restrictive criteria for production, treatment, storage, or pumping.);

(iii) details on how the retail public utility will provide service to the remaining areas within the boundaries of its certificated area. This includes projections of cost and expected design and installation dates for additional facilities.

Please submit a copy of the Planning Report to the TCEQ Harlingen Office and send the original to:

TCEQ
Water Supply Division/Public Drinking Water Section (MC-155)
PO Box 13087
Austin, Texas 78711-3087

**ALLEGED VIOLATION(S) NOTED AND RESOLVED
ASSOCIATED TO A NOTICE OF VIOLATION**

Track No: 379383

30 TAC Chapter 290.43(c)(3)

Alleged Violation:

Investigation: 775148

Comment Date: 10/9/2009

Failure to provide an overflow pipe gravity-hinged and weighted cover on the elevated tank with a good mechanical seal when closed in order to prevent the possible entrance of insects or other contaminants into the water supply. The cover must seat properly with a gap of no more than 1/16 inch. The discharge opening of the overflow shall be above the surface of the ground and shall not be subject to submergence.

During the investigation conducted on September 17, 2009, neither the water operator nor the Investigators could find the overflow outlet or cover on the overflow pipe coming from the top of the elevated storage tank. The overflow pipe was covered by a wooden floor and located inside of a concrete box located below ground level. The elevated storage tank is located at the NW corner of Kansas and 2nd Street.

Investigation: 864412

Comment Date: 11/5/2010

Failure to provide an overflow pipe gravity-hinged and weighted cover on the elevated tank.

Recommended Corrective Action: Please submit to the TCEQ Harlingen Office a completed work order from a vendor or contractor or a photograph indicating the overflow outlet flap was installed on the overflow pipe at its respective location and in good working order.

Resolution: During the November 4, 2010, onsite investigation, OMI Project Manager Filemon Olvera provided a photograph of the overflow pipe which is now compliant with this regulation.

Track No: 379401

30 TAC Chapter 290.42(a)(1)

Alleged Violation:

Investigation: 775148

Comment Date: 10/23/2009

Failure to provide a treatment plant capacity that can meet the system's maximum daily demand.

On September 17, 2009, the investigator reviewed the Monthly Operating Reports (MOR)s for the City of Weslaco WTP which documented that the WTP exceeded its rated capacity on the following days:

The WTP exceeded its capacity rating during the Month of July 2009 on three days. The WTP exceeded its capacity rating when it operated at 8.249 MGD on July 20, 2009, at 8.271 MGD on July 27, 2009 and at 8.405 MGD on July 29, 2009.

The WTP exceeded its capacity rating during the Month of August 2009 on fourteen days. The three highest days the WTP exceeded its capacity rating when it operated at 8.482 MGD on August 4, 2009, at 8.591 MGD on August 12, 2009 and at 8.429 MGD on August 21, 2009.

Investigation: 864412

Comment Date: 12/9/2010

Failure to provide a treatment plant capacity that can meet the system's maximum daily demand.

Recommended Corrective Action: Please submit to the TCEQ Harlingen Office a time schedule when construction will begin to modify or upgrade the WTP or submit completed construction plans for the City of Weslaco WTP with a beginning construction date or submit a compliance plan indicating when upgrades to the WTP will begin so as to provide a treatment plant capacity that can meet the system's maximum daily demand.

Resolution: On the date of the November 4, 2010, investigation, the water system's monthly operating reports were reviewed for the previous 12 month period. The highest recorded maximum daily demand 7.259 MGD on September 1, 2010, was below the plant's rated capacity of 8.12 MGD.

Track No: 379461

30 TAC Chapter 291.93(3)

Alleged Violation:

Investigation: 775148

Comment Date: 10/12/2009

Failure for the retail public utility that possesses a certificate of public convenience and necessity that has reached 85% of its capacity must submit a planning report that clearly explains how the retail public utility will provide expected service demand to the remaining areas with the boundaries of its area for elevated storage.

Elevated Storage Capacity Required: 1,195,300 Gallons. Elevated Storage Capacity provided by the City of Weslaco, 1,300,000 Gallons. After any commission field inspection, the retail public utility must analyze the system's capacity to determine if it has reached 85% of its capacity. If the retail public has reached 85 % of its capacity, it must file a report no later than 90 days after the date of a commission letter detailing results of the inspection.

Investigation: 864412

Comment Date: 12/10/2010

A retail public utility that possesses a certificate of public convenience and necessity that has reached 85% of its capacity as compared to the most restrictive criteria of the commission's minimum capacity requirements in Chapter 290 of this title shall submit to the executive director a planning report that clearly explains how the retail public utility will provide the expected service demands to the remaining areas within the boundaries of its certificated area.

Specifically, on the date of the November 4, 2010, investigation, the water system was required to provide 1,174,400 gallons of elevated storage. The facility currently provides 1,300,000 gallons of elevated storage (90% capacity).

Recommended Corrective Action: Please submit a copy of the elevated storage water analyze to the TCEQ Harlingen Office and send the original to:

TCEQ
Water Supply Division/Public Drinking Water Section (MC-155)
PO Box 13087
Austin, Texas 78711-3087

Resolution: This violation is being administratively resolved as the elevated storage capacity will be included in violation track no. 379581.

ADDITIONAL ISSUES

DescriptionAdditional Comments

Other violations noted during the investigation?
(If non-compliant then describe violation in the
comment section.)

On the date of the November 4, 2010, investigation,
both of the water system's clarifiers were exhibiting
surface rust. This maintenance issue should be
addressed before pitting occurs.
