

SITE: EPISD – Bowie High School – 801 San Marcial St.

INSPECTION DATE: April 26, 2018

PRESENT: Saul Urbina (EPISD Foreman Plumbing)
Julio Chavira (EPISD Plumber)
Maximo Verdugo (EPISD Plumber)
Jose Ortiz (EPISD Plumber)
Manuel Rivera (EPISD Plumber Apprentice)
Severo Mar (EPISD Irrigation Technician)
Marcos Tarango (EPISD Maintenance Supervisor)
Mauro Monsisvais (EPISD Project Manager)
Erik Andrade (Black Stallion Contractors Superintendent)
Liliana Fierro (EPISD Project Manager)
Severo Mar, EPISD
David Tirre, El Paso Water

The site was inspected on April 26, 2018 for monitoring of a cross connection as requested by El Paso Independent School District (EPISD) to include the stadium facilities and west of the stadium including the baseball field, which will be the future EPISD Fleet Maintenance Facility. The following are the findings of the investigation:

1. The backflow prevention devices are in place for two potable water meters: two-inch domestic meter (#0716523) and four-inch domestic yard meter (#1997).
2. The two-inch domestic meter serves the stadium facilities.
3. The four-inch domestic yard meter serves the irrigation system to the west of the stadium and around the perimeter of the baseball field.
4. There are no current backflow prevention assembly tests on record with EPWater for these two locations. The 2-inch domestic backflow prevention assembly (SN W126427) was tested on 12/30/16 and the 4-inch backflow prevention assembly (SN 4GK0650) was tested on 11/25/16.
5. A reclaimed water meter is used to service the football field, which has been converted to artificial turf, the soccer fields east of the stadium and the baseball field west of the stadium.

The cross connection inspection was conducted as follows:

1. Stadium Building: The two-inch domestic meter was closed and the four-inch yard meter and reclaimed water meter were left active to observe for water flow to the building. There was no water flow or water pressure observed to the boys and girls locker rooms, the weight room, custodian's room, or hose bibs from the active meters.
2. West of Stadium: The four-inch yard meter to the irrigation system to the area west of the stadium and around the perimeter of the baseball field and the two-inch domestic meter were closed and the reclaimed water meter was opened. There was no water flow or pressure observed west of the stadium and the outside perimeter of the baseball field.
3. The reclaimed water irrigation system that irrigates the baseball field functioned as designed while the two-inch domestic meter and four-inch yard meter were closed.
4. End of Test. – 11:00 am.

Findings and Recommendations:

1. There is no cross connection between the potable water meters and the reclaimed water meter.
2. If the backflow prevention assemblies on the two-inch and four-inch potable water lines have been tested recently, please provide copies of the testing report. If they have not been tested, testing must be completed as soon as possible (yearly testing required).
3. Laboratory personnel collected 3 samples for bacteriological testing. Samples were collected from the 3 locations: the backflow prevention device at the two-inch domestic meter, a yard tap at the track and the men's restroom at the stadium. The results were negative for bacteriological contamination.
4. Extensive flushing was required to get a chlorine residual. The water in the line was probably stale due to low usage at the stadium facility and could affect the taste of the water. When the facilities at the stadium are open to the public, it is recommended that the line be routinely flushed.

Prepared By:
David Tirre, E.I.T.
Utility Engineer Associate
Water Reclamation & Biosolids

BACKFLOW PREVENTION ASSEMBLY TEST AND MAINTENANCE REPORT

NAME OF PWS: El Paso Water Utilities PWS I.D. #: 0710002
 OWNER NAME: EPISD
 BUSINESS NAME: Bowie High School
 MAILING ADDRESS: 6531 Boeing Dr City: EL PASO State: TX Zip: 79925
 CUSTOMER REPRESENTATIVE: F. Hernandez Phone: _____ E-mail: _____
 PREMISE ADDRESS: 801 S. San Marcial City: El Paso State: Texas Zip: 79905

The backflow prevention assembly detailed below has been tested and maintained as required by commission regulations and is certified to be operating within acceptable parameters.

TYPE OF ASSEMBLY

- ☒ Reduced Pressure Principle
☐ Double Check Valve
☐ Pressure Vacuum Breaker

Meter Serial Number: _____

- ☐ Reduced Pressure Principle-Detector
☐ Double Check-Detector
☐ Spill-Resistant Pressure Vacuum Breaker

Manufacturer: Wilkins Size: 2"
 Model Number: 975XL Located At: West of school next to stadium
 Serial Number: W126427 ☒ Domestic ☐ Fire Protection ☐ Lawn Irrigation

Is the assembly installed in accordance with manufacturer recommendations and/or local codes? Yes

	Reduced pressure Principle Assembly			Pressure Vacuum Breaker	
	Double Check Valve Assembly		Relief Valve	Air Inlet	Check Valve
	1st Check	2nd Check			
Initial Test	Held at <u>8</u> psid Closed Tight <input checked="" type="checkbox"/> Leaked <input type="checkbox"/>	Held at <u>2</u> psid Closed Tight <input checked="" type="checkbox"/> Leaked <input type="checkbox"/>	Opened at <u>2.6</u> psid Did not open <input type="checkbox"/>	Opened at _____ psid Did not open <input type="checkbox"/>	Held at _____ psid Leaked <input type="checkbox"/>
Repairs and Materials Used					
Test After Repair	Held at _____ psid Closed Tight <input type="checkbox"/>	Held at _____ psid Closed Tight <input type="checkbox"/>	Opened at _____ psid	Opened at _____ psid	Held at _____ psid

Test Date: 1-10-16 Test Type: ☐ Initial ☒ Annual ☐ Repair ☐ Relocation
 Test Gauge Used: Make/Model: Wilkins TG-5 S/N: 02097757 Calibration Date: 09-21-15
 Removed Assembly: Manufacturer: _____ Model: _____ Size: _____ S/N: _____

Remarks: _____

The above is certified to be true at the time of testing.

Firm Name: The Sprinkler Guy Certified Tester Name: Juan Badillo
 Firm Address: 1340 Whirlaway, EP TX 79936 Cert. Tester #: BP0010949 Lic. Exp. Date: 12-12-2016
 Firm Phone: (915) 858-2325 EPWU Technician #: 737

* TEST RECORDS MUST BE KEPT FOR AT LEAST THREE YEARS
 ** USE ONLY MANUFACTURER'S REPLACEMENT PARTS



BACKFLOW PREVENTION ASSEMBLY TEST AND MAINTENANCE REPORT

NAME OF PWS: **El Paso Water Utilities** PWS I.D. #: **0710002**
 OWNER NAME: **EPISD**
 BUSINESS NAME: **Bowie High School**
 MAILING ADDRESS: **6531 Boeing Dr** City: **EL PASO** State: **TX** Zip: **79925**
 CUSTOMER REPRESENTATIVE: **F. Hernandez** Phone: _____ E-mail: _____
 PREMISE ADDRESS: **801 S. San Marcial** City: **El Paso** State: **Texas** Zip: **79905**

The backflow prevention assembly detailed below has been tested and maintained as required by commission regulations and is certified to be operating within acceptable parameters.

TYPE OF ASSEMBLY

- ☒ Reduced Pressure Principle
☐ Double Check Valve
☐ Pressure Vacuum Breaker

Meter Serial Number: _____

- ☐ Reduced Pressure Principle-Detector
☐ Double Check-Detector
☐ Spill-Resistant Pressure Vacuum Breaker

Manufacturer: **Aynnes**
 Model Number: **4000**
 Serial Number: **4GK0650**

Size: **4"**
 Located At: **STADIUM**
☐ Domestic ☐ Fire Protection ☒ Lawn Irrigation

Is the assembly installed in accordance with manufacturer recommendations and/or local codes? **Yes**

	Reduced pressure Principle Assembly			Pressure Vacuum Breaker	
	Double Check Valve Assembly		Relief Valve	Air Inlet	Check Valve
	1st Check	2nd Check			
Initial Test	Held at 9.4 psid Closed Tight <input checked="" type="checkbox"/> Leaked <input type="checkbox"/>	Held at 2.2 psid Closed Tight <input checked="" type="checkbox"/> Leaked <input type="checkbox"/>	Opened at 2 psid Did not open <input type="checkbox"/>	Opened at _____ psid Did not open <input type="checkbox"/>	Held at _____ psid Leaked <input type="checkbox"/>
Repairs and Materials Used					
Test After Repair	Held at _____ psid Closed Tight <input type="checkbox"/>	Held at _____ psid Closed Tight <input type="checkbox"/>	Opened at _____ psid	Opened at _____ psid	Held at _____ psid

Test Date: **1-10-16** Test Type: ☐ Initial ☒ Annual ☐ Repair ☐ Relocation

Test Gauge Used: Make/Model: **Wilkins TG-5** S/N: **02097757** Calibration Date: **09-21-15**

Removed Assembly: Manufacturer: _____ Model: _____ Size: _____ S/N: _____

Remarks: _____

The above is certified to be true at the time of testing.

Firm Name: **The Sprinkler Guy** Certified Tester Name: **Juan Badillo**
 Firm Address: **1340 Whirlaway, EP TX 79936** Cert. Tester #: **BP0010949** Lic. Exp. Date: **12-12-2016**
 Firm Phone: **(915) 858-2325** EPWU Technician #: **737**

* TEST RECORDS MUST BE KEPT FOR AT LEAST THREE YEARS
 ** USE ONLY MANUFACTURER'S REPLACEMENT PARTS



ANALYTICAL REPORT

International Water Quality Laboratory
4100-L Delta Drive
El Paso, TX 79905-4306
(915) 594-5725

Client: Water Quality Investigations
Project: BOWIE HS WATER QUALITY
Sampling Location: Mauro Monsivais
EPISD
6531 Boeing Dr
El Paso, TX 79925

Requested By: Paul Rivas
El Paso Water
Environmental Compliance Mgr
210 North Lee Street
El Paso, TX 79901
privas@epwu.org
Ph: (915) 594-5772
Fax:

Lab ID: 18-13745
Sample ID: BOWIE BACKFLOW FOR STADIUM
Sampling Source: Tap
Sample Type: GRAB
Collected: 05/01/2018 09:15
Received: 05/01/2018 10:51
Reported: 05/02/2018 17:15
Matrix: Drinking Water

Parameter	Result	Units	Dil.	RDL	Prepared	By	Analyzed	By	Qual
SM 2510B Field Conductivity									
Electrical Conductivity	874	umhos/cm	1	147	05/02/2018 11:09	LQM	05/02/2018 11:09	LQM	
SM 4500 (COC) pH									
pH (COC)	7.6	pH	1	1	05/01/2018 09:15	SMP	05/01/2018 09:15	SMP	
Temperature (COC)	24.0	°C	1	1	05/01/2018 09:15	SMP	05/01/2018 09:15	SMP	
SM 4500-CI G DPD Colorimetric									
Chlorine, Free	0.25	mg/L	1	0.10	05/01/2018 09:15	SMP	05/01/2018 09:15	SMP	
SM 9223B Coliforms									
Total Coliform	Absent	P/A	1	1.00	05/01/2018 16:30	GQG	05/01/2018 16:30	GQG	
E. Coli	Absent	P/A	1	1.00	05/01/2018 16:30	GQG	05/01/2018 16:30	GQG	
SM 9223B Escherichia coli									
E. Coli	<1	MPN/100mL	1	1	05/01/2018 14:35	GQG	05/01/2018 14:35	GQG	

All results are reported on a wet weight basis unless otherwise stated. The results contained in this report were obtained using IWQL Standard Operating Procedures. These procedures are in substantial compliance with the approved methods referenced and the standard published by The NELAC Institute unless otherwise noted in the Appendix and/or Quality Control sections of this report. This report may not be reproduced, except in full, without written approval from International Water Quality Laboratory.

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Richard A. Wilcox
Laboratory Services Manager



ANALYTICAL REPORT

International Water Quality Laboratory
4100-L Delta Drive
El Paso, TX 79905-4306
(915) 594-5725

Client: Water Quality Investigations
Project: BOWIE HS WATER QUALITY
Sampling Location: Mauro Monsivais
EPISD
6531 Boeing Dr
El Paso, TX 79925

Requested By: Paul Rivas
El Paso Water
Environmental Compliance Mgr
210 North Lee Street
El Paso, TX 79901
privas@epwu.org
Ph: (915) 594-5772
Fax:

Lab ID:	18-13746	Collected:	05/01/2018 09:52
Sample ID:	STADIUM TRACK AREA YARD TAP	Received:	05/01/2018 10:51
Sampling Source:		Reported:	05/02/2018 17:17
Sample Type:	GRAB	Matrix:	Drinking Water

Parameter	Result	Units	Dil.	RDL	Prepared	By	Analyzed	By	Qual
SM 2510B Field Conductivity									
Electrical Conductivity	892	umhos/cm	1	147	05/02/2018 11:09	LQM	05/02/2018 11:09	LQM	
SM 4500-Cl G DPD Colorimetric									
Chlorine, Free	0.45	mg/L	1	0.10	05/01/2018 09:52	EFD	05/01/2018 09:52	EFD	
SM 9223B Coliforms									
Total Coliform	Absent	P/A	1	1.00	05/01/2018 16:30	GQG	05/01/2018 16:30	GQG	
E. Coli	Absent	P/A	1	1.00	05/01/2018 16:30	GQG	05/01/2018 16:30	GQG	
SM 9223B Escherichia coli									
E. Coli	<1	MPN/100mL	1	1	05/01/2018 14:35	GQG	05/01/2018 14:35	GQG	

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Laboratory Services Manager



ANALYTICAL REPORT

International Water Quality Laboratory
4100-L Delta Drive
El Paso, TX 79905-4306
(915) 594-5725

Client: Water Quality Investigations
Project: BOWIE HS WATER QUALITY
Sampling Location: Mauro Monsisvais
EPISD
6531 Boeing Dr
El Paso, TX 79925

Requested By: Paul Rivas
El Paso Water
Environmental Compliance Mgr
210 North Lee Street
El Paso, TX 79901
privas@epwu.org
Ph: (915) 594-5772
Fax:

Lab ID: 18-13747
Sample ID: STADIUM MEN RESTROOM
Sampling Source:
Sample Type: GRAB
Collected: 05/01/2018 10:04
Received: 05/01/2018 10:51
Reported: 05/02/2018 17:17
Matrix: Drinking Water

Parameter	Result	Units	Dil.	RDL	Prepared	By	Analyzed	By	Qual
SM 2510B Field Conductivity									
Electrical Conductivity	898	umhos/cm	1	147	05/02/2018 11:09	LQM	05/02/2018 11:09	LQM	
SM 4500-Cl G DPD Colorimetric									
Chlorine, Free	0.26	mg/L	1	0.10	05/01/2018 10:04	EFD	05/01/2018 10:04	EFD	
SM 9223B Coliforms									
Total Coliform	Absent	P/A	1	1.00	05/01/2018 16:30	GQG	05/01/2018 16:30	GQG	
E. Coli	Absent	P/A	1	1.00	05/01/2018 16:30	GQG	05/01/2018 16:30	GQG	
SM 9223B Escherichia coli									
E. Coli	<1	MPN/100mL	1	1	05/01/2018 14:35	GQG	05/01/2018 14:35	GQG	

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El Paso, TX 79905-4306
(915) 594-5725

Client: Water Quality Investigations
Project: BOWIE HS WATER QUALITY
Sampling Location: Mauro Monsivais
EPISD
6531 Boeing Dr
El Paso, TX 79925

Requested By: Paul Rivas
El Paso Water
Environmental Compliance Mgr
210 North Lee Street
El Paso, TX 79901
privas@epwu.org
Ph: (915) 594-5772
Fax:

Lab ID: 18-13748
Sample ID: GYM GIRLS RESTROOM
Sampling Source:
Sample Type: GRAB
Collected: 05/01/2018 10:20
Received: 05/01/2018 10:51
Reported: 05/02/2018 17:17
Matrix: Drinking Water

Parameter	Result	Units	Dil.	RDL	Prepared	By	Analyzed	By	Qual
SM 2510B Field Conductivity									
Electrical Conductivity	897	umhos/cm	1	147	05/02/2018 11:09	LQM	05/02/2018 11:09	LQM	
SM 4500-Cl G DPD Colorimetric									
Chlorine, Free	0.23	mg/L	1	0.10	05/01/2018 10:20	EFD	05/01/2018 10:20	EFD	
SM 9223B Coliforms									
Total Coliform	Absent	P/A	1	1.00	05/01/2018 16:30	GQG	05/01/2018 16:30	GQG	
E. Coli	Absent	P/A	1	1.00	05/01/2018 16:30	GQG	05/01/2018 16:30	GQG	
SM 9223B Escherichia coli									
E. Coli	<1	MPN/100mL	1	1	05/01/2018 14:35	GQG	05/01/2018 14:35	GQG	

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