

DEPARTMENT	OPERATING AREA
Environmental	Morenci
DOCUMENT NO.	DOCUMENT TITLE
BMP 211	Backflow Procedures

Purpose and Scope:

Arizona R18-4-215, "A public water system shall protect its system from contamination caused by backflow through unprotected cross-connections by requiring the installation and periodic testing of backflow-prevention assemblies. Required backflow-prevention assemblies shall be installed as close as practicable to the service connection." Additionally, under R18-4-215.F, "Each backflow-prevention assembly required by this Section shall be tested at least annually, or more frequently if directed by the public water system or the Department. Each assembly shall also be tested after installation, relocation, or repair. An assembly shall not be placed in service unless it has been tested and is functioning as designed."

Definitions:

None

Responsible Parties:


Morenci Water & Electric (Sign and verify workorder Townsite) , Environmental (Sign and verify workorder for Mine) and certified contractor (receive and complete workorders), GSC (open and distribute workorder, close workorders)

Specialized Tools/Skills/Training:


Backflow Assembly Tester Certification

Procedure:

1. Western Will preform a backflow test and email the results and work order
 - a. Work Order Example:

FREEPORT-McMORAN  400017061468 Printed On: 04-03-2025 03:03:52 PM Morenci

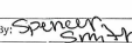

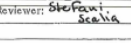
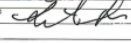
Order: 400017061468 - BACKFLOW CERTIFICATION/INSPECTION Phase: Scheduling Sub Phase: Ready to Schedule (Order)
Order Type: MND - PREVENTIVE MAINTENANCE Priority: 3 - Medium Serial No: 2270412
Equipment: 10000001183 Tech ID: 138P-0075-0279412 Personnel Location: MND-S-ACGI-005-0704
Equip Desc: BP Concentrator Office Pump PL Desc: PUMP WASTE
Main Work Center: MND-S-ACGI-005-0704 PM Activity Type: AC - PREVENTIVE MAINTENANCE
Schedule Start Date: 04-07-2025 Schedule End Date: 04-07-2025 Final Due Date: 05-08-2025
Required Start Date: 04-07-2025 Required End Date: 04-07-2025 Processing Contact:
Profit Created by: Reported By:

Operation: 4010 
Short Text: 900-1020 BP-AI CONCENTRATOR/CAMP-APR Phase: Scheduling Sub Phase: Ready to Schedule
Equipment: Tech ID: Personnel Location:
Equip Desc: PL Desc:
Operation Work Center: MND-S-ACGI-005-0704 Duration: 2.0 HR
Number of Operators: 2 Works: 4.0 HR
Person Responsible: Start Date: 04-07-2025 End Date: 04-07-2025

Equipment: MEASURING POINTS & COUNTERS
Equipment: MEASURING POINTS AS FRT
LONG TEXT
900-1020 BP-AI CONCENTRATOR/CAMP-APR
Use Approved Back Flow Inspection Form, Attach completed form to order.
Inspect Insulation Blanket
Replace as needed: Y N

COMPLETION COMMENTS
- Back Flow was tested on 4-4-25

Page 1 of 2

Completed By: 	Signature: 	Date Completed: 4-4-25
Supervisor Reviewer: 	Signature: 	Date Completed: 4/5/25

MATERIALS	
Reservation Details	
PR/PO Details	

RETURN MATERIALS			
Quantity	Stock or Plant	Description	Name

FOLLOW ALL SAFETY INSTRUCTIONS RELATED TO EACH OPERATION

b. Test Example:

ENVIRONMENTAL FORM
FREEPORT-McMORAN
MORENCI INC
Backflow Prevention Assembly Test Report Form

W10-17061468
POM 250144

Water Purveyor Morenci Water & Electric (MWE)		Assembly Address: (Must Complete) Concentrator Office Ramp	
Permit No.	Manufacturer Wilkins	Size 2"	Model No. 470 XL
Facility Owner Freeport-McMoran Morenci Inc.	Phone Number (928) 865-6000	Water Meter No. 2270412	
Address 4521 N US Highway 191		City, State, ZIP Morenci, AZ 85540	
Contact Environmental Services Department		Contact Phone No. (928) 865-6000	
Address 8521 N US Hwy 191 Morenci, AZ 85540		New <input checked="" type="checkbox"/> Existing <input type="checkbox"/> Containment Isolation <input checked="" type="checkbox"/> Replacement * <input checked="" type="checkbox"/> Old Ser#	
On Site Location Next to Stairs		Domestic <input checked="" type="checkbox"/> Irrigation <input type="checkbox"/> Fire <input type="checkbox"/>	
Reduced Pressure Principle Assembly		Back Pressure Y / <input checked="" type="checkbox"/>	
Double Check Valve Assembly		Differential Pressure Relief Valve	
Initial Test	Check Valve #1 1. Closed Tight 9.3 PSID 2. Leaked <input type="checkbox"/>	Check Valve #2 1. Closed Tight <input checked="" type="checkbox"/> PSID 2. Leaked <input type="checkbox"/>	Opened At: 1.2 PSID Leaking <input type="checkbox"/> Did Not Open <input type="checkbox"/>
	Replaced: Rubber Kit <input type="checkbox"/> Other <input type="checkbox"/>	Replaced: Rubber Kit <input type="checkbox"/> Other <input type="checkbox"/>	Replaced: Rubber Kit <input type="checkbox"/> Other <input type="checkbox"/>
	Pressure Vacuum Breaker		Air Inlet Opened At: PSID Leaking <input type="checkbox"/> Did Not Open <input type="checkbox"/> Check Valve Hold At: PSID Leaked <input type="checkbox"/> Cleaned <input type="checkbox"/> Replaced: Rubber Kit <input type="checkbox"/> Other <input type="checkbox"/>
	Final Test		Closed Tight <input type="checkbox"/> PSID Closed Tight <input type="checkbox"/> PSID Opened At: PSID Air Inlet: PSID Check Valve: PSID

The above Report is Certified to be true. * Field must be completed.

Initial Test By: Alexis Walker	Certified Tester No.: 1420977	Date: 4-4-25	Pass <input checked="" type="checkbox"/> Fail <input type="checkbox"/>
Repaired By:	Date:	Test Kit Serial #: 01132547	
Final Test By:	Certified Tester No.:	Date:	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
Comments:			

Reviewed by Environmental (Initials): **JA** Date: **4/5/25**
FMMI WQ# **40001761468**

2. Check the serial number on the work order matches the serial number on the test

a.

Serial No: 2270412

Serial No. (Required) 2270412

3. Make sure the test is completed:

Contact Environmental Services Department		Contact Phone No. (928) 865-6000	
Address 8521 N US Hwy 191 Morenci, AZ 85540		New <input checked="" type="checkbox"/> Existing <input type="checkbox"/> Containment Isolation <input checked="" type="checkbox"/> Replacement * <input checked="" type="checkbox"/> Old Ser#	
On Site Location Next to Stairs		Domestic <input checked="" type="checkbox"/> Irrigation <input type="checkbox"/> Fire <input type="checkbox"/>	
Reduced Pressure Principle Assembly		Back Pressure Y / <input checked="" type="checkbox"/>	
Double Check Valve Assembly		Differential Pressure Relief Valve	
Initial Test	Check Valve #1 1. Closed Tight 9.3 PSID 2. Leaked <input type="checkbox"/>	Check Valve #2 1. Closed Tight <input checked="" type="checkbox"/> PSID 2. Leaked <input type="checkbox"/>	Opened At: 1.2 PSID Leaking <input type="checkbox"/> Did Not Open <input type="checkbox"/>
	Replaced: Rubber Kit <input type="checkbox"/> Other <input type="checkbox"/>	Replaced: Rubber Kit <input type="checkbox"/> Other <input type="checkbox"/>	Replaced: Rubber Kit <input type="checkbox"/> Other <input type="checkbox"/>
	Pressure Vacuum Breaker		Air Inlet Opened At: PSID Leaking <input type="checkbox"/> Did Not Open <input type="checkbox"/> Check Valve Hold At: PSID Leaked <input type="checkbox"/> Cleaned <input type="checkbox"/> Replaced: Rubber Kit <input type="checkbox"/> Other <input type="checkbox"/>
	Final Test		Closed Tight <input type="checkbox"/> PSID Closed Tight <input type="checkbox"/> PSID Opened At: PSID Air Inlet: PSID Check Valve: PSID

The above Report is Certified to be true. * Field must be completed.

Initial Test By: Alexis Walker	Certified Tester No.: 1420977	Date: 4-4-25	Pass <input checked="" type="checkbox"/> Fail <input type="checkbox"/>
Repaired By:	Date:	Test Kit Serial #: 01132547	
Final Test By:	Certified Tester No.:	Date:	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
Comments:			

4. Check for a signature on the work order

Completed By: <u>Spencer Smith</u>	Signature: <u>[Signature]</u>	Date Completed: <u>4-4-25</u>
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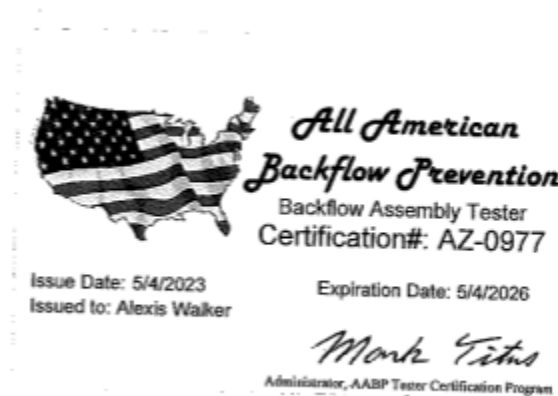
5. Make sure the person who completed the test is currently certified to do the test.

- a. 04 Water Quality > 4.06 Safe Drinking Water Act and Backflow Prevention > 07_Drinking Water > Backflow Prevention Program > 03_Certified Backflow Inspector

The certifications can be found here: [03_Certified Backflow Inspectors 4.6.4](#)

- b. EX.

The above Report is Certified to be true.		
Initial Test By: <u>Alexis Walker</u>	Certified Tester No.: <u>AZ0977</u>	Date: <u>4-4-25</u>



6. Print the workorder and completed test.
7. Sign the work order

Completed By: <u>Spencer Smith</u>	Signature: <u>[Signature]</u>	Date Completed: <u>4-4-25</u>
Supervisor Reviewer: <u>Stefani Scalia</u>	Signature: <u>[Signature]</u>	Date Completed: <u>4/5/25</u>

8. Complete Bottom of Test for Reviewed by Environmental
a. Use your initials
b. Matching work order number
c. Date you signed and completed the form

Reviewed by Environmental (Initials): <u>SA</u>	Date: <u>4/5/25</u>
FMMI WO# <u>40001761468</u>	

9. If there is an additional sheet of Backflow unit information initial and date the bottom

Backflow Unit Information Form

☐ New Installation ☒ Replacement ☐ Located in the field ☐ Update current info

☒ Picture attached WITH NEW SERIAL NUMBER (required if using this form)

Date: 11-1-23
Order Number & PO: 23364

General Device Information ***

Dept & Location: Dodge Leach Stockpile Trailer 1
Type of Device & Size: 1" 3 RP
Manufacturer: Wilkins
Model #: 975XL2
GPS Coordinates:

Removed Device

SN#: 41616734
Reason Removed: Backflow could not be repaired.

GPS Coordinates:

Technician Name Performing Service: INTERNAL USE ONLY

Reviewed By Environmental - Initial and date: DW 11/9/23

Comments/Notes:

10. Scan signed work order, and test onto computer

11. Email the signed work order and test to

i. ssmith@wirco.com or current Western backflow supervisor

ii. Back Flow backflow@wirco.onmicrosoft.com (Western Group Backflow General Email)

iii. Current GSC admin clerk

iv. Anastasia Overall aoverall@fmi.com (Maintenance Helper)

iv. McKinley, Jeanise jmckinle3@fmi.com or current GSC planner

12. 04 Water Quality > 4.06 Safe Drinking Water Act and Backflow Prevention > 07_Drinking Water > Backflow Prevention Program > 02_Inspection-Test Reports

Add scanned documents to sharepoint records: [02_Inspection-Test Reports 4.6.2](#)

13. Add date to the backlog inventory

Inventory ID	Sort field	Equipment ID	Description	Size	Device	Model number	Site Location / GPS	Year Site Size	Manuf Serial No	Start-up Date	2023 Date Testing Complete	2024 Date Testing Complete
A197	350P-RP2"-3698501	100000894429	BF- STARGO ACID TANK UNLOADING	2"	WILKINS	975XL2	Behind emergency eyewash station. GPS: N 33, 02.734' ; W 109, 20.371'	3350	3698501	n/a	3/22/2023	
A38	350M-RP1"-3699489	100001054395	BF-AI-SwappsYrd(Outside)-Oct	1"	WILKINS	975XL	Outside yard entrance. GPS: N 33, 04.154' W 109, 21.146'	3350	3699489	n/a	10/18/2023	
	302T-RP.75"-147662	100000956562	BF-Longfellow Apartment	3/4"	WILKINS	975	Behind main bldg, next to Room 25A	3302	147662	4/25/2011	6/12/2023	

a. General Documents > 04 Water Quality > 4.06 Safe Drinking Water Act and Backflow Prevention > 07_Drinking Water > Backflow Prevention Program > 01_Inventory Lists > 01_T

The backflow inventory is found here: [01_Test_Logs](#)

i. Click on the appropriate excel sheet for the current year. (i.e 2024)

14. Follow- Up with Back Flow <backflow@wirco.onmicrosoft.com> at the end of the year for status of blank backflows

15. Additional Notes:

a. 302T = Townsite

b. 350M = Mine

Tech ID: 350P-RP2"-2270412

QUESTIONS OR NEED HELP?

Contact your Environmental Representative or Environmental Services at (928) 865-6000

Revision Date	Revision Date	Revision Description	Reviewer	Final Approver
0	4/18/2024	New Document	DC	KRK
1	6/2/2025	Updated Workorder pictures	SS	DG
2				