

## GENERAL PERMIT APPLICATION: COMMUNITY WATER SYSTEM WATER STORAGE TANK PAINTING

### GENERAL INSTRUCTIONS AND CHECKLIST

A General Permit Application for Community Water System (CWS) Water Storage Tank Painting (**3940-PM-BSDW####**) shall be submitted for approval prior to a CWS painting an existing storage tank. This Application must be signed by the appropriate individual identified in [Section 109.503\(a\)\(1\)\(i\)](#) of the Safe Drinking Water Regulations and a Professional Engineer licensed in Pennsylvania. Note, each storage tank being painted requires a separate application.

In order to qualify for this General Permit, the project must meet the design requirements in **Section B** of this Application. Projects not meeting these requirements may still be approved; however, they require the submission of a standard Public Water Supply Permit Application ([3900-PM-BSDW0254](#)).

All application packages for a General Permit Application **must** contain, at a minimum:

- General Permit Application: CWS Water Storage Tank Painting ([3940-PM-BSDW####](#))**
- \$500 General Permit Fee** (payable to the "Commonwealth of Pennsylvania")
- General Information Form ([0210-PM-PIO0001](#))**
- An Engineer's Report**
  - o See Public Water Supply Manual - Part II: Community System Design Standards ([383-2125-108](#))
- Coating Specifications** (must be ANSI/NSF Standard 61 Certified)
- ALL THE ABOVE ITEMS ARE INCLUDED (IN DUPLICATE) IN THIS APPLICATION**

The Engineer's Report is to provide sufficient information on the operation and hydraulics of each process to enable the DEP to determine compliance with accepted design standards.

Original documents, as well as one set of copies, of the above information are required and are to be submitted to the appropriate Regional Office.

For additional information on gathering the supporting data for an application, refer to DEP's [Public Water Supply Manual, Part II](#) available on DEP's website at [www.depgreenport.state.pa.us/elibrary/](http://www.depgreenport.state.pa.us/elibrary/).

### SECTION A: APPLICANT INFORMATION

**Organization Name or Registered Fictitious Name:** Applicants must provide the organization name or registered fictitious name of the facility that will be used on official documents by the water system.

**PWSID No.:** Enter the PWS Identification Number.

**Contact Person Information:** Enter the name, address, telephone number, and email address for the contact person of the system.

**Site Information:** Enter the name, address, latitude, and longitude of the tank to be repainted.

**Consultant Information:** Enter the name, address, telephone number, and email address of the Professional Engineer Licensed in Pennsylvania for the project.

### SECTION B: PROJECT REQUIREMENTS AND INFORMATION

In order to qualify for this General Permit, the project must meet the design requirements in this section. Projects not meeting these requirements may still be approved, however, they require the submission of a standard Public Water Supply Permit Application ([3900-PM-BSDW0254](#)).

1. **Chlorine Contact Time:** If the storage tank to be painted is used to provide the required chlorine contact time for an entry point, the General Permit Application **may not be utilized**. A minor permit amendment must be submitted with a detailed explanation of how the required chlorine contact time will be achieved while the storage tank is out of service.
2. **ANSI/NSF Standard 61 Coatings:** All the coatings being applied to the interior tank must be certified for conformance with ANSI/NSF Standard 61 to qualify for this General Permit.
3. **Coating Specifications and Application:** All the coatings must be mixed and applied as per the Society for Protective Coatings (SSPC) - Paint Application (PA) Standards.
4. **Coating Specifications and Application:** Provide the paint that will be used for each coat and the range of thickness that will be applied.
5. **Interior Preparation:** All interior steel surfaces must be prepared in accordance with SSPC-Surface Preparation (SP) Standards.
6. **Interior Preparation:** All welding done on the interior of the tank must be done in accordance with AWWA D100 Standard for Welded Steel Tanks for Water Storage.
7. **Pressure and Peak Demands:** Provide a detailed explanation on how pressure will be maintained and peak demands will be met while the storage tank is out-of-service.
8. **Pressure and Peak Demands Testing:** The method for maintaining pressure and meeting peak demands while the tank is out-of-service must be tested with the storage tank full and isolated from the system. This allows the storage tank to be returned to service if necessary (to maintain pressure or meet peak demands), and other options can be explored. While the storage tank is isolated from the system, a 0.20 mg/L disinfectant residual must be maintained within the storage tank.
9. **Fire Protection:** If the system provides fire protection, verify the local fire department was notified of any potential fire flow deficiencies with the storage tank being out-of-service.
10. **Disinfection:** After the work is completed, the interior of the tank must be disinfected utilizing one of the procedures set forth in the latest edition of American Water Works Association (AWWA) Standard No. C652, Disinfection of Water Storage Facilities. A Special Condition will be included in the permit for this requirement.
11. **Volatile Organic Chemical (VOC) Testing:** After the work is completed, water from the storage tank must be sampled and analyzed by a Department-accredited laboratory for volatile organic chemicals (VOC) (EPA Methods 502.2 or 524.2) at least 24 hours after the tank is filled. A Special Condition will be included in the permit for this requirement.

## SECTION C: SIGNATURES AND SEAL

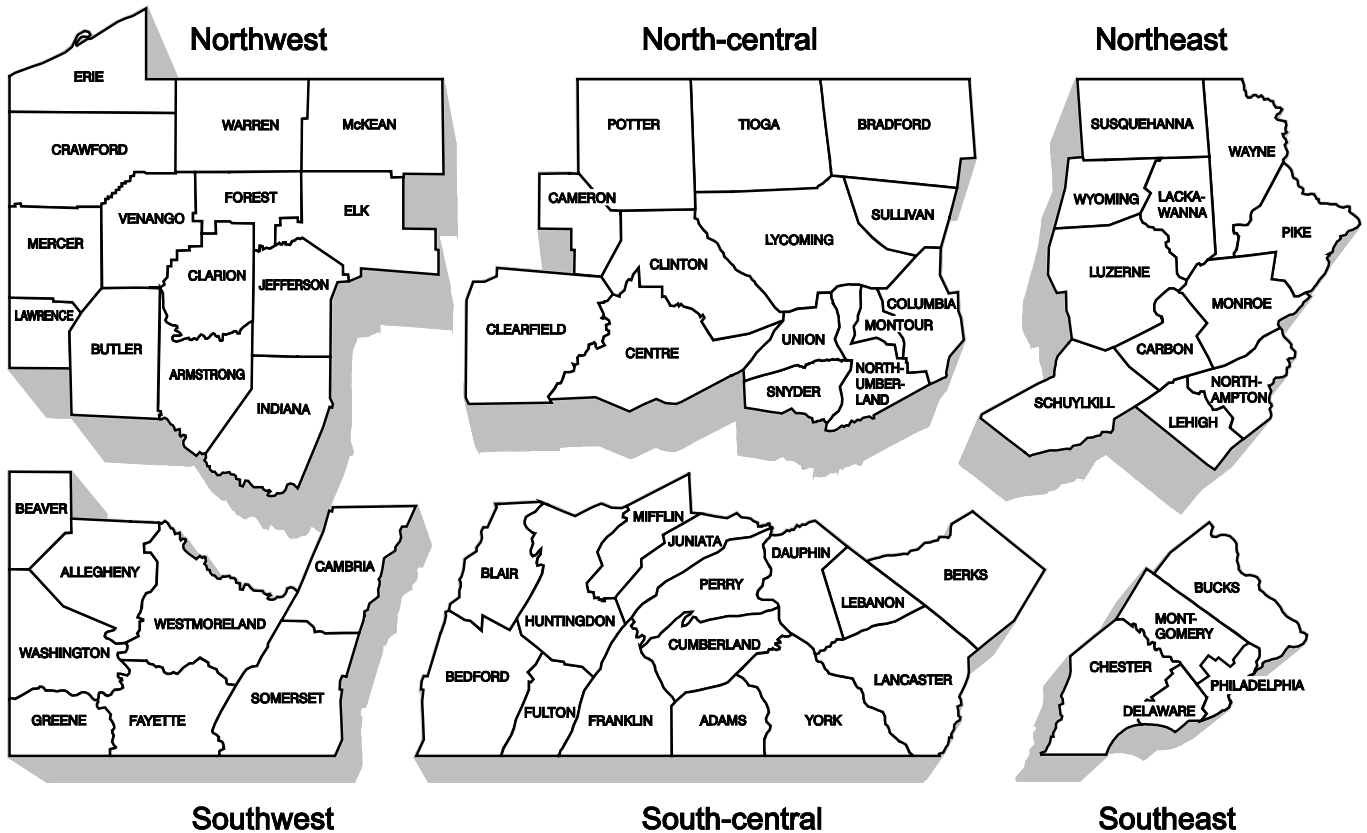
**Licensed Professional Engineer's Signature:** The Professional Engineer Licensed in Pennsylvania for the project must sign the application.

**Licensed Professional Engineer's Seal:** The Professional Engineer Licensed in Pennsylvania for the project must stamp or seal the application.

**Applicant's signature:** The application must be signed as follows:

- A. In the case of corporations, by a principal executive officer of at least the level of vice president, or an authorized representative, if the representative is responsible for the overall operation of the facility.
- B. In the case of a partnership, by a general partner.
- C. In the case of a sole proprietorship, by the proprietor.
- D. In the case of a Municipality, State, or other public facility, by either a principal executive officer, ranking elected official, or other authorized employee.

**DEP Regional Offices**



**Northwest Region**

230 Chestnut St.  
 Meadville, PA 16335-3481  
 Main Telephone: 814-332-6945  
 24-Hour Emergency:  
 1-800-373-3398

**Counties:** *Armstrong, Butler, Clarion, Crawford, Elk, Erie, Forest, Indiana, Jefferson, Lawrence, McKean, Mercer, Venango, and Warren*

**Southwest Region**

400 Waterfront Drive  
 Pittsburgh, PA 15222-4745  
 Main Telephone: 412-442-4000  
 24-Hour Emergency:  
 412-442-4000

**Counties:** *Allegheny, Beaver, Cambria, Fayette, Greene, Somerset, Washington, and Westmoreland*

**North-central Region**

208 W. Third St., Suite 101  
 Williamsport, PA 17701  
 Main Telephone: 570-327-3636  
 24-Hour Emergency: 570-327-3636

**Counties:** *Bradford, Cameron, Clearfield, Centre, Clinton, Columbia, Lycoming, Montour, Northumberland, Potter, Snyder, Sullivan, Tioga, and Union*

**South-central Region**

909 Elmerton Ave.  
 Harrisburg, PA 17110  
 Main Telephone: 717-705-4700  
 24-Hour Emergency:  
 1-800-541-2050

**Counties:** *Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry, and York*

**Northeast Region**

2 Public Square  
 Wilkes-Barre, PA 18701-1915  
 Main Telephone: 570-826-2511  
 24-Hour Emergency:  
 570-826-2511

**Counties:** *Carbon, Lackawanna, Lehigh, Luzerne, Monroe, Northampton, Pike, Schuylkill, Susquehanna, Wayne, and Wyoming*

**Southeast Region**

2 E. Main St.  
 Norristown, PA 19401  
 Main Telephone: 484-250-5900  
 24-Hour Emergency:  
 484-250-5900

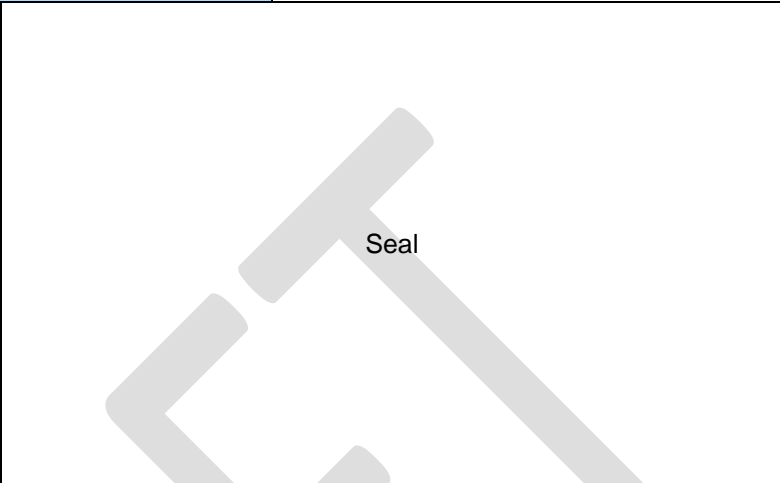
**Counties:** *Bucks, Chester, Delaware, Montgomery, and Philadelphia*

**GENERAL PERMIT APPLICATION:  
COMMUNITY WATER SYSTEM WATER STORAGE TANK PAINTING**

Title 25 [Pa. Code § 109.501\(b\) and \(d\)](#) state that a person may not substantially modify or operate a substantially modified facility without first obtaining permits from DEP. A substantial modification is defined in [§ 109.1](#) as “a change in a public water system that may affect the quantity or quality of water served to the public or which may be prejudicial to the public health or safety....” Repainting of the interior of a water storage facility will affect the quality of the water served to the public due to surface preparation procedures, coating products, and testing procedures used. Public safety can also be affected due to the potential loss of pressure and/or storage volume while the tank is off-line.

<b>Section A</b>		<b>APPLICANT INFORMATION</b>			
Organization Name or Registered Fictitious Name					
PWSID No.					
<b>Contact Person</b>					
Name				Title	
Street					
City		State		Zip Code	
Telephone No.				Email Address	
<b>Site Information</b>					
Tank Name					
Street					
City		State		Zip Code	
Municipality				County	
Location:		Lat.	° ' . "N		
(DD.MM.SS.SSS)		Long.	° ' . "W		
<b>Consultant Information</b>					
Name				Title	
Street					
City		State		Zip Code	
Telephone No.				Email Address	
License No.					

Section B		PROJECT INFORMATION	
<b>Qualifications</b>			
1. Is the tank being painted used to provide chlorine contact time?			<input type="checkbox"/> No
<b>Coating Information</b>			
2. Are all the coatings being applied to the interior tank certified for conformance with ANSI/NSF Standard 61?			<input type="checkbox"/> Yes
3. Will all coatings be mixed and applied to SSPC-PA specifications?			<input type="checkbox"/> Yes
4. Enter what paint will be used for each coat and the range of thickness that will be applied.	Primer Coat: _____	@ _____ to _____ mils.	
	Intermediate Coat: _____	@ _____ to _____ mils.	
	Stripe Coat: _____	@ _____ to _____ mils.	
	Finish Coat: _____	@ _____ to _____ mils.	
<b>Interior Preparation</b>			
5. Will all interior steel surfaces be prepared in accordance with SSPC-SP Standards?			<input type="checkbox"/> Yes
6. Will all welding be done in accordance with AWWA D100 Standard for Welded Steel Tanks for Water Storage?			<input type="checkbox"/> Yes
<b>Pressure and Peak Demands</b>			
7. How will the pressure be maintained while the tank is isolated from the system?			
8. Has this method to maintain pressure been tested with the tank full and isolated from the system?			<input type="checkbox"/> Yes
9. If the system provides fire protection, has the local fire department been notified of any potential fire flow deficiencies with the storage tank being out-of-service?			<input type="checkbox"/> Yes <input type="checkbox"/> N/A
<b>Disinfection and VOCs</b>			
10. Will the interior of the tank be disinfected utilizing one of the procedures set forth in the latest edition of American Water Works Association (AWWA) Standard No. C652, Disinfection of Water Storage Facilities, after the curing is complete?			<input type="checkbox"/> Yes
11. Will water from the storage tank be sampled and analyzed by a Department-accredited laboratory for volatile organic chemicals (VOC) (EPA Methods 502.2 or 524.2) at least 24 hours after the tank is filled?			<input type="checkbox"/> Yes

<b>Section C</b>	<b>SIGNATURES AND SEAL</b>	
Licensed Professional Engineer's Signature:		
Licensed Professional Engineer's Seal:	 <p style="text-align: center;">Seal</p>	
<b>Applicant's Signature (See <a href="#">Chapter 109.503(a)(1)(i)</a>)</b>		
<p>I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa.C.S. § 4904 (relating to unsworn falsification).</p> <p>Applicant's Signature: _____ Date: _____</p>		

**AUTHORIZATION FOR CONSTRUCTION AND OPERATION  
GENERAL PERMIT FOR COMMUNITY WATER SYSTEM WATER STORAGE TANK PAINTING****SAFE DRINKING WATER GENERAL PERMIT No:**

**In compliance with the provisions of the Safe Drinking Water Act, 25 PA Code, Chapter 109.511. General Permits, the Department of Environmental Protection (DEP) hereby authorizes, subject to the terms and conditions contained in this General Permit, the painting of interior of community system water storage tank. This General Permit authorizes with the following conditions.**

1. The Permittee shall submit a General Permit for Community Water System Water Storage Tank Painting (**3940-PM-BSDW####**).
2. The Permittee shall receive a signed copy of this General Permit from DEP authorizing coverage under this General Permit.
3. The storage tanks are used to provide the required 1.0-log *Giardia* or 4.0-log viruses inactivation chlorine contact time for the entry point do not qualify for this General Permit. A minor permit amendment must be submitted with a detailed explanation of how the required chlorine contact time will be achieved while the storage tank is out of service.
4. The Permittee shall utilize coatings that are certified to ANSI/NSF Standard only.
5. The Permittee shall mix and apply the coatings as per the Society for Protective Coatings (SSPC) - Paint Application (PA) Standards.
6. The Permittee shall prepare interior steel surfaces in accordance with SSPC-Surface Preparation (SP) Standards.
7. **Interior Preparation:** The Permittee shall follow all "AWWA D100 Standards for Welded Steel Tanks for Water Storage" while welding the interior of the tank.
8. **Pressure and Peak Demands:** The permittee shall provide a detailed explanation on how pressure will be maintained, and peak demands will be met while the storage tank is out-of-service.
9. **Pressure and Peak Demands Testing:** The method for maintaining pressure and meeting peak demands while the tank is out-of-service must be tested with the storage tank full and isolated from the system. This allows the storage tank to be returned to service if necessary (to maintain pressure or meet peak demands), and other options can be explored. While the storage tank is isolated from the system, a 0.20 mg/L disinfectant residual must be maintained within the storage tank.
10. **Fire Protection:** If the system provides fire protection, the permittee shall verify the local fire department was notified of any potential fire flow deficiencies with the storage tank being out-of-service.
11. **Disinfection:** After the work is completed, the permittee shall disinfect the interior of the tank utilizing one of the procedures set forth in the latest edition of American Water Works Association (AWWA) Standard No. C652, Disinfection of Water Storage Facilities. A Special Condition will be included in the permit for this requirement.
12. **Disinfectant Residual:** After disinfecting the tank, the permittee shall maintain a disinfectant residual of at least 0.2 mg/L in the storage tank at all times until the tank is placed back into service. If the residual falls below 0.2 mg/L, the water supplier shall disinfect the tank again, and again obtain satisfactory bacteriological test results before placing the tank into service. A Special Condition will be included in the permit for this requirement.
13. **Volatile Organic Chemical (VOC) Testing:** After the work is completed, the permittee shall have the water from the storage tank sampled and analyzed by a DEP-accredited laboratory for volatile organic chemicals

(VOC) (EPA Methods 502.2 or 524.2) at least 24 hours after the tank is filled. A Special Condition will be included in the permit for this requirement.

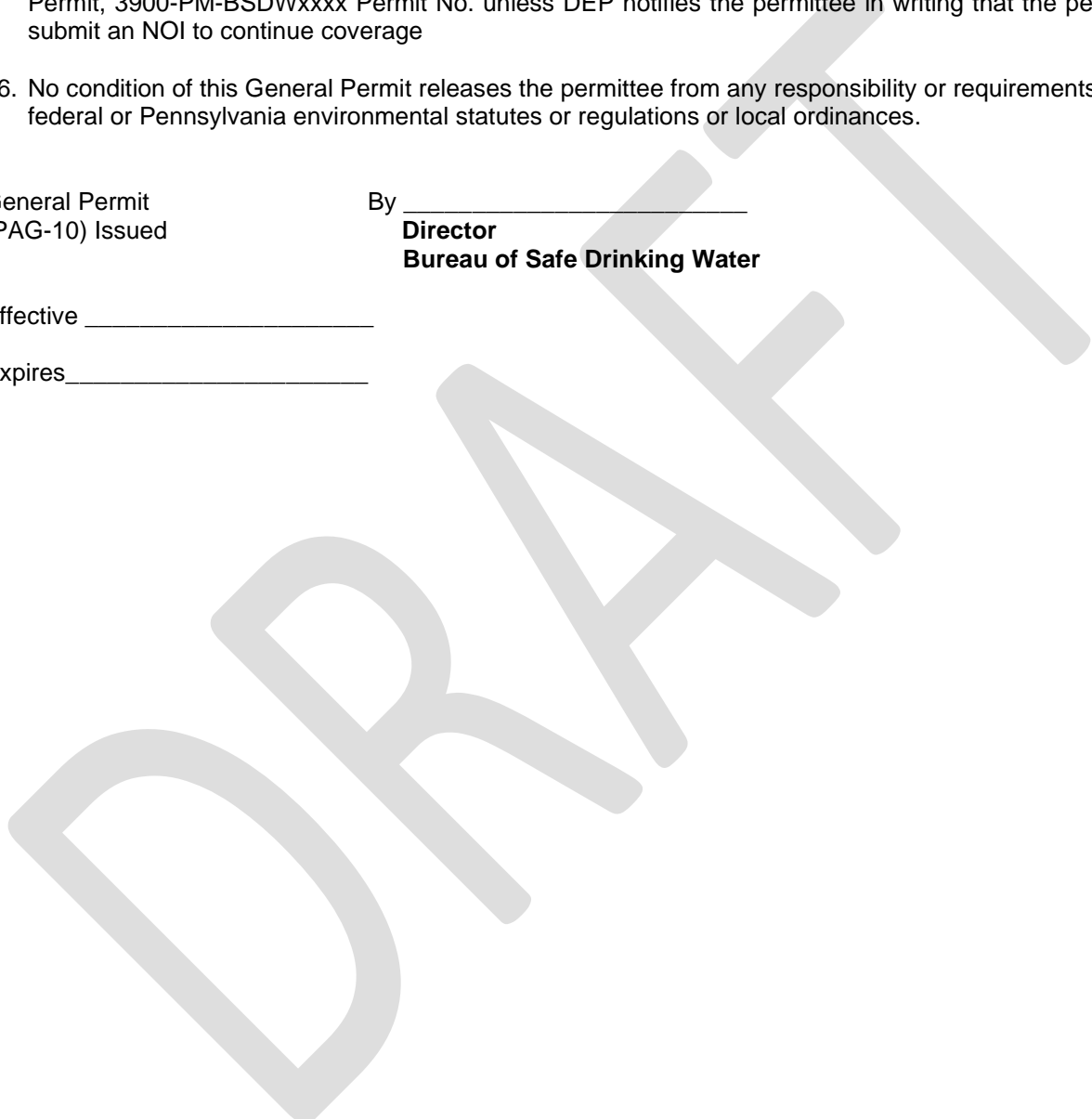
- 14. DEP may require a permittee to apply for and obtain a public water supply minor amendment construction permit by notifying the permittee based on review of the application.
- 15. This General Permit will expire 5 years from the date of its issuance. If DEP reissues this General Permit upon expiration, modifies this General Permit during its current term, or revokes this General Permit during its current term and reissues it for a new 5-year term, a permittee with approved coverage under this General Permit may continue the authorized activity in accordance with the terms and conditions of the modified or reissued General Permit, 3900-PM-BSDWxxxx Permit No. unless DEP notifies the permittee in writing that the permittee must submit an NOI to continue coverage
- 16. No condition of this General Permit releases the permittee from any responsibility or requirements under other federal or Pennsylvania environmental statutes or regulations or local ordinances.

General Permit  
(PAG-10) Issued

By \_\_\_\_\_  
**Director**  
**Bureau of Safe Drinking Water**

Effective \_\_\_\_\_

Expires \_\_\_\_\_





**AUTHORIZATION FOR CONSTRUCTION AND OPERATION  
GENERAL PERMIT FOR COMMUNITY WATER SYSTEM WATER STORAGE TANK PAINTING****GENERAL PERMIT NO.:SDWGP No. 1**

**In compliance with the provisions of the Safe Drinking Water Act, Title 25 PA Code, Chapter 109.511, General Permits.**

**("Permittee") is authorized to paint (Storage Tank No.) in accordance with standards, disinfection and sampling requirements and other conditions set forth herein.**

## Limit of authorization

Failure to comply with Chapter 109, of the rules and regulations of the Department of Environmental Protection ("Department" or "DEP") or the terms or conditions of this permit shall void the authority given to the Permittee by the issuance of the permit.

The plans, specifications, reports and supporting documents submitted as part of the permit application become part of the permit.

No deviations from approved plans or specifications affecting the treatment process or quality of water shall be made without written approval from the department.

This permit is issued by the Department under the authority of the Pennsylvania Safe Drinking Water Act, the Act of May 1, 1984 (p.l. 206, no. 43). Operation shall comply with the provisions of Chapter 109 adopted under the authority in sections 4 and 6(e) of the Pennsylvania Safe Drinking Water Act.

The authority granted by coverage under the General Permit ("General Permit") is subject to the following further qualifications:

17. The Permittee shall comply with the terms and conditions of the SDWGP No. 1
18. The Permittee's failure to comply with the terms or conditions of the SDWGP No. 1 is grounds for DEP to take an enforcement action, or to terminate or revoke coverage under this General Permit.
19. This authorization of SDWGP No. 1 does not authorize any activity other than the construction or modification of facilities as per the terms and conditions of this General Permit.
20. The Permittee shall notify the Department at least 48-hours prior to isolating and draining the Storage Tank.
21. Prior to returning the Storage Tank to operation, the facilities shall be properly disinfected in accordance with 25 PA Code, Chapter 109.711 of the Safe Drinking Water regulations and the most recent procedures established by the American Water Works Association (AWWA). Water from the Storage Tank shall be tested for total coliforms in accordance with AWWA standards. The samples shall be analyzed by a DEP-accredited laboratory. Copies of all microbiological test results shall be submitted to DEP within 24 hours of receiving the results.
22. After disinfecting the tank, the Permittee shall maintain a disinfectant residual of at least 0.2 mg/L in the storage tank at all times until the tank is placed back into service. If the residual falls below 0.2 mg/L, the water supplier shall disinfect the tank again, and again obtain satisfactory bacteriological test results before placing the tank into service. The Permittee shall sample at least daily, with the last sample collected no more than 4 hours before returning the tank to service.



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF SAFE DRINKING WATER

23. Prior to returning the Storage Tank to operation, water from the Storage Tank shall be sampled and tested for volatile organic chemical (VOC) content utilizing EPA Method 524.2 or EPA Method 502.2 before the Storage Tank is placed into service. The tank shall be filled with water for at least 24 hours prior to the collection of the VOC sample. The sample shall be analyzed by a DEP-accredited laboratory. Copies of all test results shall be submitted within 24 hours of receiving the results
24. If any of the bacteriological results are positive, any regulated VOC concentration exceeds an MCL or any nonregulated VOC is found to be present at a concentration that is greater than the method detection limit, the Storage Tank may not be returned to service until DEP first approves its use, in writing.
25. Upon completion of construction and testing, the Permittee shall submit a Certificate of Construction form (3900-FM-BSDW0062) available on DEP's website, copies of the bacteriological test results, chlorine residual results, and copies of the VOC test results to DEP. The Certificate of Construction form shall be provided to DEP within 24 hours of returning the storage tank to service.

The aforementioned approval is authorized by:

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Safe Drinking Water Program Manager  
Regional Office  
Department of Environmental Protection