

Comprehensive Monitoring Plan

PART 1: GENERAL SYSTEM INFORMATION

| | | | |
|---|--|--|---|
| PWS Name: | | PWSID: | |
| PWS Type: | <input type="checkbox"/> CWS <input type="checkbox"/> NTNCWS <input type="checkbox"/> TNCWS | Population Served: | |
| Mailing Address: | | | |
| | | | |
| Contact Person: | | | |
| Phone: | Email: | | |
| Source Types: (check all that apply) | <input type="checkbox"/> Surface Water <input type="checkbox"/> Ground Water <input type="checkbox"/> GUDI – GW under direct influence of SW | <input type="checkbox"/> Purchased Surface Water <input type="checkbox"/> Purchased Ground Water <input type="checkbox"/> Purchased GUDI – GW under direct influence of SW | Is PWS selling finished water to any other public water system? <input type="checkbox"/> Yes <input type="checkbox"/> No |

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PART 2: SOURCE & ENTRY POINT (EP) INFORMATION

Availability and Type Codes

| Availability Codes | Source Type Codes | |
|---------------------------------|-------------------|--------------------------|
| P = Permanent | G = Groundwater | GUDI = Groundwater Under |
| S = Seasonal | W = Purchased GW | Direct Influence (of SW) |
| E = Emergency | S = Surface Water | Z = Purchased GUDI |
| <i>(purchased sources only)</i> | P = Purchased SW | |

Table 2A – System-owned Sources

| Source ID | Source Name | Source Availability | Source Type | EP ID | EP Name | EP Availability |
|-----------|-------------|---------------------|-------------|-------|---------|-----------------|
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Table 2B – Purchased Sources

| Source ID | Source Name | Source Availability | Source Type | EP ID | EP Availability | Seller's PWS ID | Distribution Disinfectant Used by Seller |
|-----------|-------------|---------------------|-------------|-------|-----------------|-----------------|--|
| | | | | | | | |
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PART 3: NUMBER OF SAMPLES REQUIRED

| EP ID | No. Sources | Source Contribution | Description of How Sources Used | No. Samples Req'd |
|--------------|--------------------|---|--|--------------------------|
| | | <input type="checkbox"/> Alternated <input type="checkbox"/> Blended <input type="checkbox"/> Both <input type="checkbox"/> N/A | | |
| | | <input type="checkbox"/> Alternated <input type="checkbox"/> Blended <input type="checkbox"/> Both <input type="checkbox"/> N/A | | |
| | | <input type="checkbox"/> Alternated <input type="checkbox"/> Blended <input type="checkbox"/> Both <input type="checkbox"/> N/A | | |
| | | <input type="checkbox"/> Alternated <input type="checkbox"/> Blended <input type="checkbox"/> Both <input type="checkbox"/> N/A | | |
| | | <input type="checkbox"/> Alternated <input type="checkbox"/> Blended <input type="checkbox"/> Both <input type="checkbox"/> N/A | | |
| | | <input type="checkbox"/> Alternated <input type="checkbox"/> Blended <input type="checkbox"/> Both <input type="checkbox"/> N/A | | |
| | | <input type="checkbox"/> Alternated <input type="checkbox"/> Blended <input type="checkbox"/> Both <input type="checkbox"/> N/A | | |
| | | <input type="checkbox"/> Alternated <input type="checkbox"/> Blended <input type="checkbox"/> Both <input type="checkbox"/> N/A | | |
| | | <input type="checkbox"/> Alternated <input type="checkbox"/> Blended <input type="checkbox"/> Both <input type="checkbox"/> N/A | | |
| | | <input type="checkbox"/> Alternated <input type="checkbox"/> Blended <input type="checkbox"/> Both <input type="checkbox"/> N/A | | |

NOTES:

- If only 1 source contributes to EP or sources are blended at a consistent ratio, then only 1 sample/EP is needed for each set of compliance monitoring.
- If multiple sources are used that are alternated where each source is operated by itself, then the number of samples needed for each set of compliance monitoring is equal to the number of sources at that EP.
- If multiple sources are used that are alternated differently or that are blended at different ratios then describe how the sources are used and identify the number of samples that will be required for each set of compliance monitoring to ensure all sources are included.
 - If alternated, what conditions determine when the sources are switched (such as a set schedule)? Is the switchover automatic or manual?
 - If blended, how are the sources used and what conditions determine the blending ratio?

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PART 4: TREATMENT INFORMATION

For each EP ID, check the appropriate box(es) for the contaminant(s) for which treatment has been installed. If no treatment has been installed, check the N/A box for that contaminant group.

| EP ID | IOCs <input type="checkbox"/> N/A | VOCs <input type="checkbox"/> N/A | SOCs <input type="checkbox"/> N/A |
|-------|--|---|---|
| | <input type="checkbox"/> Antimony <input type="checkbox"/> Cyanide <input type="checkbox"/> Arsenic <input type="checkbox"/> Fluoride <input type="checkbox"/> Asbestos <input type="checkbox"/> Mercury <input type="checkbox"/> Barium <input type="checkbox"/> Nitrate <input type="checkbox"/> Beryllium <input type="checkbox"/> Nitrite <input type="checkbox"/> Cadmium <input type="checkbox"/> Selenium <input type="checkbox"/> Chromium <input type="checkbox"/> Thallium <div style="text-align: center;">RADs <input type="checkbox"/> N/A</div> <input type="checkbox"/> Gross Alpha <input type="checkbox"/> Radium 226 <input type="checkbox"/> Radium 228 <input type="checkbox"/> Uranium | <input type="checkbox"/> 1,1-Dichloroethylene* <input type="checkbox"/> Benzene <input type="checkbox"/> cis-1,2-Dichloroethylene <input type="checkbox"/> Carbon Tetrachloride <input type="checkbox"/> trans-1,2-Dichloroethylene* <input type="checkbox"/> Dichloromethane <input type="checkbox"/> 1,2-Dichloroethane* <input type="checkbox"/> Ethylbenzene <input type="checkbox"/> 1,1,1-Trichloroethane* <input type="checkbox"/> Monochlorobenzene <input type="checkbox"/> 1,1,2-Trichloroethane* <input type="checkbox"/> Styrene <input type="checkbox"/> 1,2,4-Trichlorobenzene <input type="checkbox"/> Toluene <input type="checkbox"/> 1,2-Dichloropropane <input type="checkbox"/> Trichloroethylene* <input type="checkbox"/> o-Dichlorobenzene <input type="checkbox"/> Tetrachloroethylene* <input type="checkbox"/> para-Dichlorobenzene <input type="checkbox"/> Xylenes (total) <div style="text-align: center;"><input type="checkbox"/> Vinyl Chloride</div> | <input type="checkbox"/> 2,4-D <input type="checkbox"/> Endrin <input type="checkbox"/> 2,4,5-TP <input type="checkbox"/> EDB <input type="checkbox"/> Alachlor <input type="checkbox"/> Glyphosate <input type="checkbox"/> Atrazine <input type="checkbox"/> Heptochlor <input type="checkbox"/> Benzo(a)pyrene <input type="checkbox"/> Heptachlor epoxide <input type="checkbox"/> Carbofuran <input type="checkbox"/> Hexachlorobenzene <input type="checkbox"/> Chlordane <input type="checkbox"/> Hexachlorocyclopentadiene <input type="checkbox"/> Dalapon <input type="checkbox"/> Lindane <input type="checkbox"/> Di(ethylhexyl)adipate <input type="checkbox"/> Methoxychlor <input type="checkbox"/> Di(ethylhexyl)phthalate <input type="checkbox"/> Oxamyl (Vydate) <input type="checkbox"/> DBCP <input type="checkbox"/> PCBs <input type="checkbox"/> Dinoseb <input type="checkbox"/> Pentachlorophenol <input type="checkbox"/> Dioxin <input type="checkbox"/> Picloram <input type="checkbox"/> Diquat <input type="checkbox"/> Simazine <input type="checkbox"/> Endothall <input type="checkbox"/> Toxaphene |
| EP ID | IOCs <input type="checkbox"/> N/A | VOCs <input type="checkbox"/> N/A | SOCs <input type="checkbox"/> N/A |
| | <input type="checkbox"/> Antimony <input type="checkbox"/> Cyanide <input type="checkbox"/> Arsenic <input type="checkbox"/> Fluoride <input type="checkbox"/> Asbestos <input type="checkbox"/> Mercury <input type="checkbox"/> Barium <input type="checkbox"/> Nitrate <input type="checkbox"/> Beryllium <input type="checkbox"/> Nitrite <input type="checkbox"/> Cadmium <input type="checkbox"/> Selenium <input type="checkbox"/> Chromium <input type="checkbox"/> Thallium <div style="text-align: center;">RADs <input type="checkbox"/> N/A</div> <input type="checkbox"/> Gross Alpha <input type="checkbox"/> Radium 226 <input type="checkbox"/> Radium 228 <input type="checkbox"/> Uranium | <input type="checkbox"/> 1,1-Dichloroethylene* <input type="checkbox"/> Benzene <input type="checkbox"/> cis-1,2-Dichloroethylene <input type="checkbox"/> Carbon Tetrachloride <input type="checkbox"/> trans-1,2-Dichloroethylene* <input type="checkbox"/> Dichloromethane <input type="checkbox"/> 1,2-Dichloroethane* <input type="checkbox"/> Ethylbenzene <input type="checkbox"/> 1,1,1-Trichloroethane* <input type="checkbox"/> Monochlorobenzene <input type="checkbox"/> 1,1,2-Trichloroethane* <input type="checkbox"/> Styrene <input type="checkbox"/> 1,2,4-Trichlorobenzene <input type="checkbox"/> Toluene <input type="checkbox"/> 1,2-Dichloropropane <input type="checkbox"/> Trichloroethylene* <input type="checkbox"/> o-Dichlorobenzene <input type="checkbox"/> Tetrachloroethylene* <input type="checkbox"/> para-Dichlorobenzene <input type="checkbox"/> Xylenes (total) <div style="text-align: center;"><input type="checkbox"/> Vinyl Chloride</div> | <input type="checkbox"/> 2,4-D <input type="checkbox"/> Endrin <input type="checkbox"/> 2,4,5-TP <input type="checkbox"/> EDB <input type="checkbox"/> Alachlor <input type="checkbox"/> Glyphosate <input type="checkbox"/> Atrazine <input type="checkbox"/> Heptochlor <input type="checkbox"/> Benzo(a)pyrene <input type="checkbox"/> Heptachlor epoxide <input type="checkbox"/> Carbofuran <input type="checkbox"/> Hexachlorobenzene <input type="checkbox"/> Chlordane <input type="checkbox"/> Hexachlorocyclopentadiene <input type="checkbox"/> Dalapon <input type="checkbox"/> Lindane <input type="checkbox"/> Di(ethylhexyl)adipate <input type="checkbox"/> Methoxychlor <input type="checkbox"/> Di(ethylhexyl)phthalate <input type="checkbox"/> Oxamyl (Vydate) <input type="checkbox"/> DBCP <input type="checkbox"/> PCBs <input type="checkbox"/> Dinoseb <input type="checkbox"/> Pentachlorophenol <input type="checkbox"/> Dioxin <input type="checkbox"/> Picloram <input type="checkbox"/> Diquat <input type="checkbox"/> Simazine <input type="checkbox"/> Endothall <input type="checkbox"/> Toxaphene |

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PART 5: WAIVER INFORMATION

For each EP ID, check the appropriate box(es) for the contaminant(s) for which a waiver has been approved. If no waivers have been approved for that contaminant group, check the N/A box.

| EP ID | IOCs <input type="checkbox"/> N/A | VOCs <input type="checkbox"/> N/A | SOCs <input type="checkbox"/> N/A | | |
|-------|---|--|--|--|--|
| | <input type="checkbox"/> Antimony <input type="checkbox"/> Arsenic <input type="checkbox"/> Asbestos <input type="checkbox"/> Barium <input type="checkbox"/> Beryllium <input type="checkbox"/> Cadmium <input type="checkbox"/> Chromium <input type="checkbox"/> Cyanide <input type="checkbox"/> Fluoride <input type="checkbox"/> Mercury <input type="checkbox"/> Selenium <input type="checkbox"/> Thallium | <input type="checkbox"/> 1,1-Dichloroethylene* <input type="checkbox"/> cis-1,2-Dichloroethylene <input type="checkbox"/> trans-1,2-Dichloroethylene* <input type="checkbox"/> 1,2-Dichloroethane* <input type="checkbox"/> 1,1,1-Trichloroethane* <input type="checkbox"/> 1,1,2-Trichloroethane* <input type="checkbox"/> 1,2,4-Trichlorobenzene <input type="checkbox"/> 1,2-Dichloropropane <input type="checkbox"/> o-Dichlorobenzene <input type="checkbox"/> para-Dichlorobenzene <input type="checkbox"/> Vinyl Chloride | <input type="checkbox"/> Benzene <input type="checkbox"/> Carbon Tetrachloride <input type="checkbox"/> Dichloromethane <input type="checkbox"/> Ethylbenzene <input type="checkbox"/> Monochlorobenzene <input type="checkbox"/> Styrene <input type="checkbox"/> Toluene <input type="checkbox"/> Trichloroethylene* <input type="checkbox"/> Tetrachloroethylene* <input type="checkbox"/> Xylenes (total) | <input type="checkbox"/> 2,4-D <input type="checkbox"/> 2,4,5-TP <input type="checkbox"/> Alachlor <input type="checkbox"/> Atrazine <input type="checkbox"/> Benzo(a)pyrene <input type="checkbox"/> Carbofuran <input type="checkbox"/> Chlordane <input type="checkbox"/> Dalapon <input type="checkbox"/> Di(ethylhexyl)adipate <input type="checkbox"/> Di(ethylhexyl)phthalate <input type="checkbox"/> DBCP <input type="checkbox"/> Dinoseb <input type="checkbox"/> Dioxin <input type="checkbox"/> Diquat <input type="checkbox"/> Endothall | <input type="checkbox"/> Endrin <input type="checkbox"/> EDB <input type="checkbox"/> Glyphosate <input type="checkbox"/> Heptochlor <input type="checkbox"/> Heptachlor epoxide <input type="checkbox"/> Hexachlorobenzene <input type="checkbox"/> Hexachlorocyclopentadiene <input type="checkbox"/> Lindane <input type="checkbox"/> Methoxychlor <input type="checkbox"/> Oxamyl (Vydate) <input type="checkbox"/> PCBs <input type="checkbox"/> Pentachlorophenol <input type="checkbox"/> Picloram <input type="checkbox"/> Simizine <input type="checkbox"/> Toxaphene |
| EP ID | IOCs <input type="checkbox"/> N/A | VOCs <input type="checkbox"/> N/A | SOCs <input type="checkbox"/> N/A | | |
| | <input type="checkbox"/> Antimony <input type="checkbox"/> Arsenic <input type="checkbox"/> Asbestos <input type="checkbox"/> Barium <input type="checkbox"/> Beryllium <input type="checkbox"/> Cadmium <input type="checkbox"/> Chromium <input type="checkbox"/> Cyanide <input type="checkbox"/> Fluoride <input type="checkbox"/> Mercury <input type="checkbox"/> Selenium <input type="checkbox"/> Thallium | <input type="checkbox"/> 1,1-Dichloroethylene* <input type="checkbox"/> cis-1,2-Dichloroethylene <input type="checkbox"/> trans-1,2-Dichloroethylene* <input type="checkbox"/> 1,2-Dichloroethane* <input type="checkbox"/> 1,1,1-Trichloroethane* <input type="checkbox"/> 1,1,2-Trichloroethane* <input type="checkbox"/> 1,2,4-Trichlorobenzene <input type="checkbox"/> 1,2-Dichloropropane <input type="checkbox"/> o-Dichlorobenzene <input type="checkbox"/> para-Dichlorobenzene <input type="checkbox"/> Vinyl Chloride | <input type="checkbox"/> Benzene <input type="checkbox"/> Carbon Tetrachloride <input type="checkbox"/> Dichloromethane <input type="checkbox"/> Ethylbenzene <input type="checkbox"/> Monochlorobenzene <input type="checkbox"/> Styrene <input type="checkbox"/> Toluene <input type="checkbox"/> Trichloroethylene* <input type="checkbox"/> Tetrachloroethylene* <input type="checkbox"/> Xylenes (total) | <input type="checkbox"/> 2,4-D <input type="checkbox"/> 2,4,5-TP <input type="checkbox"/> Alachlor <input type="checkbox"/> Atrazine <input type="checkbox"/> Benzo(a)pyrene <input type="checkbox"/> Carbofuran <input type="checkbox"/> Chlordane <input type="checkbox"/> Dalapon <input type="checkbox"/> Di(ethylhexyl)adipate <input type="checkbox"/> Di(ethylhexyl)phthalate <input type="checkbox"/> DBCP <input type="checkbox"/> Dinoseb <input type="checkbox"/> Dioxin <input type="checkbox"/> Diquat <input type="checkbox"/> Endothall | <input type="checkbox"/> Endrin <input type="checkbox"/> EDB <input type="checkbox"/> Glyphosate <input type="checkbox"/> Heptochlor <input type="checkbox"/> Heptachlor epoxide <input type="checkbox"/> Hexachlorobenzene <input type="checkbox"/> Hexachlorocyclopentadiene <input type="checkbox"/> Lindane <input type="checkbox"/> Methoxychlor <input type="checkbox"/> Oxamyl (Vydate) <input type="checkbox"/> PCBs <input type="checkbox"/> Pentachlorophenol <input type="checkbox"/> Picloram <input type="checkbox"/> Simizine <input type="checkbox"/> Toxaphene |

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PART 6: SAMPLING INFORMATION

Monitoring Status & Frequency Codes

| Monitoring Status Codes | Monitoring Frequency Codes | |
|-------------------------|----------------------------|-------------------------------|
| I = Initial/Increased | A = Annual | 3 = Triennial (every 3 years) |
| S = Standard/Routine | Q = Quarterly | 9 = Every 9 years |
| R = Reduced | W = Waiver Approved | 6 = Every 6 years (RADs only) |

NOTE: Samples may be composited for IOCs, VOCs and SOCs (RADs samples may *not* be composited). If the population is greater than 3,300, compositing may only be done at sampling points within a single system. If the population is less than or equal to 3,300, samples may be composited among different systems. No more than 5 samples may be included in the composite sample.

Table 4A – Inorganic Chemicals (IOCs)

Year Waiver Expires: _____

| EP ID | Monitoring | | Year Due | Sampling Schedule | Included in Composite? | EPs Included in Composite Sample |
|-------|------------|-----------|----------|-------------------|------------------------|----------------------------------|
| | Status | Frequency | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

NOTE: Compliance monitoring for contaminants for which treatment has been installed must be conducted at least annually, unless increased monitoring is required. For *each* EP, identify in a separate row any individual contaminants that are on a monitoring frequency that is different from the group frequency.

Table 4B – Volatile Organic Chemicals (VOCs)

Year Waiver Expires: _____

| EP ID | Monitoring | | Year Due | Sampling Schedule | Included in Composite? | EPs Included in Composite Sample |
|-------|------------|-----------|----------|-------------------|------------------------|----------------------------------|
| | Status | Frequency | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
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NOTE: Compliance monitoring for all VOCs must be conducted at least annually if any VOC removal treatment has been installed or if any VOCs were previously detected, unless increased monitoring is required.

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Table 4C – Synthetic Organic Chemicals (SOCs)

Year Waiver Expires: _____

| EP ID | Monitoring | | Year Due | Sampling Schedule | Included in Composite? | EPs Included in Composite Sample |
|-------|------------|-----------|----------|-------------------|------------------------|----------------------------------|
| | Status | Frequency | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

NOTES: Compliance monitoring for contaminants for which treatment has been installed or that were previously detected must be conducted at least annually unless increased monitoring is required. For *each* EP, identify in a separate row any individual contaminants that are on a monitoring frequency that is different from the group frequency.

Table 4D – Radiological Chemicals (RADs)

| EP ID | Contaminant | Monitoring | | Year Due | Sampling Schedule |
|-------|-------------|------------|-----------|----------|-------------------|
| | | Status | Frequency | | |
| | Gross Alpha | | | | |
| | Ra 226/228 | | | | |
| | Uranium | | | | |
| | Gross Alpha | | | | |
| | Ra 226/228 | | | | |
| | Uranium | | | | |
| | Gross Alpha | | | | |
| | Ra 226/228 | | | | |
| | Uranium | | | | |

NOTE: Compliance monitoring for contaminants for which treatment has been installed must be conducted at least annually, unless increased monitoring is required.

PART 5: ATTACHMENTS

Attachment 1 – Coliform Sample Siting Plan

Attachment 2 – Disinfectants/Disinfection Byproducts Monitoring Plan

Attachment 3 – Lead & Copper Sample Siting Plan



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

ANNUAL SOURCE WATER PROTECTION PROGRAM UPDATE

**THIS FORM SHOULD BE COMPLETED IN ORDER TO MAINTAIN APPROVED STATUS
OF A LOCAL SOURCE WATER PROTECTION PROGRAM.**

REPORT FOR CALENDAR YEAR: JAN. 1 TO DEC. 31, _____ (Fill in *previous* year)

RETURN BY **MARCH 31** TO THE SAFE DRINKING WATER PROGRAM MANAGER AT THE REGIONAL OFFICE THAT SERVES YOUR COUNTY (See list on page 2)

| | | | |
|---|------------------------|----------------------------------|--|
| 1. System Name | | 2. System Address | |
| 3. PWSID# | 4. Municipality | 5. System Phone # | |
| 6. Source ID(s) # / Well ID(s) # | | 8. County | |
| 8. Contact Person Name | | 9. Contact Person Address | |
| 10. Contact Person Phone # | | 11. E-mail Address | |

**Please answer the following questions as completely as possible,
and include additional pages if necessary.**

| |
|---|
| <p>1. List any major changes in source water withdrawal, including new or abandoned sources.</p> |
| <p>2. Please describe any land use changes within the source water protection area.</p> |
| <p>3. List any new contaminant sources including the type, amount, and distance from each water source. Locate the contaminant source(s) on a map as well as the water source and attach to this form.</p> |

4. Include any contaminant sources that are no longer a threat to the water supply. Please explain. Locate the contaminant source(s) on a map and please attach to this form.

5. Describe resources that have been applied to the source water protection program (budget items, in-kind sources, materials, etc.).

6. Are you complying with your management implementation schedule? Yes No
If not, please explain:
Describe any management techniques that have been implemented.

7. Include future plans and implementation dates for the upcoming year.

| | | |
|---------------------|-----------------|----------------|
| 8. Signature | 9. Title | 9. Date |
|---------------------|-----------------|----------------|

| DEP REGIONAL OFFICES | | |
|--|---|---|
| <p>Northwest Region - SDW 230 Chestnut St. Meadville, PA 16335-3481 814-332-6899 <i>Counties: Butler, Clarion, Crawford, Elk, Erie, Forest, Jefferson, Lawrence, McKean, Mercer, Venango and Warren</i></p> | <p>Northcentral Region - SDW 208 W. Third St., Suite 101 Williamsport, PA 17701 570-327-3636 <i>Counties: Bradford, Cameron, Clearfield, Centre, Clinton, Columbia, Lycoming, Montour, Northumberland, Potter, Snyder, Sullivan, Tioga and Union</i></p> | <p>Northeast Region - SDW 2 Public Square Wilkes-Barre, PA 18711-0790 570-826-2511 <i>Counties: Carbon, Lackawanna, Lehigh, Luzerne, Monroe, Northampton, Pike, Schuylkill, Susquehanna, Wayne and Wyoming</i></p> |
| <p>Southwest Region - SDW 400 Waterfront Drive Pittsburgh, PA 15222-4745 412-442-4051 <i>Counties: Allegheny, Armstrong, Beaver, Cambria, Fayette, Greene, Indiana, Somerset, Washington and Westmoreland</i></p> | <p>Southcentral Region - SDW 909 Elmerton Ave. Harrisburg, PA 17110 717-705-4708 <i>Counties: Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry and York</i></p> | <p>Southeast Region - SDW 2 E. Main Street Norristown, PA 19401 484-250-5900 <i>Counties: Bucks, Chester, Delaware, Montgomery and Philadelphia</i></p> |

Note: CWS should incorporate this template into their existing Emergency Response Plan.

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Uninterrupted System Service Plan (USSP) Template

Pennsylvania’s Community Water System (CWS) sources and treatment facilities are susceptible to emergency situations resulting from both natural and man-made disasters. Examples of emergencies include tropical storms, flooding, high winds, ice, snow, industrial chemical plant runoff, pipeline ruptures, and transportation corridor spills. Chapter 109.708 (a) – (c) amendments are focused on improving the reliability of service provided to all consumers by requiring the development of a feasible plan to consistently supply an adequate quantity of safe and potable water during emergency situations. This Uninterrupted System Service Plan (USSP) Template is provided to help develop this important plan. To minimize the reporting burden and for maintaining security of sensitive documents, the completed USSP will not be required to be reported to the Department; rather, this information should be incorporated into existing Emergency Response Plans and kept onsite for Department review upon request.

I. General Information

| | | | |
|---------------------------------------|--|------------------------------------|-----|
| PWS Name: | | PWSID #: | |
| Critical Facility Name: | | Critical Facility Capacity: | MGD |
| Critical Facility Description: | | Average Daily Demand: | MGD |
| Critical Facility Address: | | Available Finished Storage: | MG |
| Completed By (Name): | | Hours of Finished Storage: | |
| Date Completed: | | Date(s) Updated: | |

II. Plan to Provide Uninterrupted System Service

Please complete all of the below sections which your CWS is prepared to utilize to provide adequate quantity and quality of water during emergency situations. Systems are encouraged to be prepared to utilize as many methods as possible to maximize their capability to provide uninterrupted system service for each critical operational facility. The most effective plans carefully consider both the duration of time needed to switchover to a particular system service option as well as the efficacy of each option to provide adequate quantity of safe and potable water. Developing detailed Standard Operating Procedures (SOPs) for utilizing each alternative is critical to insuring efficient and effective implementation during emergency situations. When determining hours of operation or adequacy of finished water storage, systems should consider finished water volumes necessary to maintain adequate operating pressures throughout all portions of the distribution system. A separate template should be completed for each critical facility utilized by the CWS. For the purposes of this template, "critical facility" is defined as any facility necessary to supply adequate quantity and quality of water (e.g. water treatment plants, raw and finished water pump stations, finished water storage tanks, booster chlorination facilities, etc).

| | |
|--|---|
| (A) Auxiliary Power | Connection to at least two independent power feeds from separate substations |
| Description of Auxiliary Power | SOP to Utilize Auxiliary Power |
| | |
| Additional production capacity provided via this auxiliary power: | MGD |
| Additional hours of operation provided by this auxiliary power: | Hours |
| Amount of time needed to switchover to this auxiliary power option: | Hours |
| Date this auxiliary power was last tested: | |
| Critical CWS staff needed to utilize this option: | |
| Critical external staff needed to utilize this option: | |
| 24/7 phone numbers for all critical staff: <ol style="list-style-type: none"> 1. Name and Number 2. Name and Number 3. Name and Number | |

| | |
|--|---|
| (B) Auxiliary Power | On-site auxiliary power sources – permanent generators |
| Description of Equipment | SOP to Utilize Equipment |
| | |
| Additional production capacity provided via this auxiliary power: | MGD |
| Additional hours of operation provided by this auxiliary power: | Hours |
| Amount of time needed to switchover to this auxiliary power option: | Hours |
| Date this auxiliary power was last tested: | |
| Critical CWS staff needed to utilize this option: | |
| Critical external staff needed to utilize this option: | |
| 24/7 phone numbers for all critical staff: <ol style="list-style-type: none"> 1. Name and Number 2. Name and Number 3. Name and Number | |

| | | |
|--|--|--------------|
| (C) Auxiliary Power | Off-site auxiliary power sources – portable generators (PaWARN or Rental) | |
| Description of Equipment | SOP to Utilize Equipment | |
| | | |
| Additional production capacity provided via this auxiliary power: | | MGD |
| Additional hours of operation provided by this auxiliary power: | | Hours |
| Amount of time needed to switchover to this auxiliary power option: | | Hours |
| Date this auxiliary power was last tested: | | |
| Critical CWS staff needed to utilize this option: | | |
| Critical external staff needed to utilize this option: | | |
| 24/7 phone numbers for all critical staff: | | |
| <ol style="list-style-type: none"> 1. Name and Number 2. Name and Number 3. Name and Number | | |

| | | |
|--|--|--------------|
| (D) Alternate Provisions | Finished Water Storage Capacity | |
| Description of Storage | SOP to Utilize Storage | |
| | | |
| Additional quantity of finished water provided by this alternate provision: | | MGD |
| Additional hours of finished water supply provided by this alternate provision: | | Hours |
| Amount of time needed to switchover (valves) to this alternate provision: | | Hours |
| Date finished water storage capacity was last relied upon during an emergency: | | |
| Critical CWS staff needed to utilize this option: | | |
| Critical external staff needed to utilize this option: | | |
| 24/7 phone numbers for all critical staff: | | |
| <ol style="list-style-type: none"> 1. Name and Number 2. Name and Number | | |

3. Name and Number

| | | |
|----------------------------------|--|---------------------------------------|
| (E) Alternative Provision | Interconnection #1 with neighboring water system | |
| | Description of Interconnection | SOP to Utilize Interconnection |
| | | |

Additional finished water supply provided via this interconnection: gpm and psi

Additional hours of operation provided by this interconnection: Hours

Amount of time needed to switchover (valves) to this interconnection: Hours

Date this interconnection was last tested under actual operating pressures:

Critical CWS staff needed to utilize this option:

Critical external staff needed to utilize this option:

24/7 phone numbers for all critical staff:

1. Name and Number
2. Name and Number
3. Name and Number

| | | |
|----------------------------------|--|---------------------------------------|
| (F) Alternative Provision | Interconnection #2 with neighboring water system | |
| | Description of Interconnection | SOP to Utilize Interconnection |
| | | |

Additional finished water supply provided via this interconnection: gpm and psi

Additional hours of operation provided by this interconnection: Hours

Amount of time needed to switchover (valves) to this interconnection: Hours

Date this interconnection was last tested under actual operating pressures:

Critical CWS staff needed to utilize this option:

Critical external staff needed to utilize this option:

24/7 phone numbers for all critical staff:

- 1. Name and Number
- 2. Name and Number
- 3. Name and Number

| | |
|---|---|
| (G) Alternative Provision | “Other” - CWS should include other alternative provisions they have identified as valuable to maintaining uninterrupted system service |
| Description of Alternate Provision | SOP to Utilize Alternate Provision |
| | |

| | |
|--|-------|
| Additional production capacity provided via this option: | MGD |
| Additional hours of operation provided by this option: | Hours |
| Amount of time needed to switchover to this option: | Hours |
| Date this option was last tested: | |
| Critical CWS staff needed to utilize this option: | |
| Critical external staff needed to utilize this option: | |
| 24/7 phone numbers for all critical staff: | |
| <ul style="list-style-type: none"> 1. Name and Number 2. Name and Number 3. Name and Number | |

III. Training Review and Update

The following staff have been trained on implementation of the USSP:

- Name/ Training Date

During the training, the SOPs to implement were reviewed and updated as necessary, along with the overall USSP.

Next scheduled training / update: Date:

| | |
|-------------------------------------|--------------|
| USSP Completed By Signature: | Date: |
| USSP Reviewed By Signature: | Date: |