<b>Water System Name</b>		

General System Information					
PWS Name			PWSID#		
SOPs Prepared by		Date prepared			
SOPs Updated by		Date Updated			
Street address of system		Number of service connections			
Town		Number of people served			
Zip code		Source type (GW, SW, GWUDI)			
County		Total source capacity (gpm)			
Comments					
System Notes					

### Tips on Using this SOP Template

This SOP template is available in MS Word format (doc) or in Portable Document Format (pdf)

- The MS Word template entry spaces will expand as needed to accept your information.
- The MS Word template can be easily modified with added rows to meet your needs.
- The PDF format is not easily modified, but can be printed with the Adobe Reader software, available free at <a href="http://get.adobe.com/reader/">http://get.adobe.com/reader/</a>

Modifying this SOP template in MS Word (instructions work for MS Word 2003 and older)

- To delete a row, place the cursor in the row you want to delete. From the pull-down menu at the top of the page select: Table –
  Delete Rows.
- To add a row, place the cursor in the row below where you want a new row, then select: Table Insert Row or place the cursor in the last field of the table (bottom-right) and hit the tab key.
- To delete an unneeded table, highlight the entire table and hit Delete
- To add a whole new table, locate your cursor where you want it added. From the pull-down menu at the top of the page select: Table Insert Table enter the number of columns and rows you need Choose OK. Alternately, you can cut and paste an existing table at this location and then modify it as needed.
- Post your completed template or individual pages where convenient to use and accessible to all operators.
- Update the template when needed for new equipment, changes in system operation, contact info, etc.
- Consider laminating pages that are posted in humid areas or around chemicals

These SOPs will help provide consistent, effective practices by system operators and allow unfamiliar operators to provide help if needed. The SOPs may not cover all regulatory requirements of the State Sanitary Code (10NYCRR SubPart 5-1) and should not be relied on for this purpose.

Contact Information					
	Name	Primary Phone Number	Emergency Phone Number	Email	
Owner					
Owners Rep or Manager					
Operator in Charge					
Assistant Operator					
IDEM Contact					
IDEM After Hours					
Water Testing Lab					
Water Testing Lab					
Chlorine Supplier					
Chemical Supplier					
Equipment Vendor					
Equipment Vendor					
Pump Supplier					
Plumber					
Excavator					
Electrician					
Power Company					
Water Hauler					
Engineer					
AIRW Circuit Rider					
County Health Department					
IDEM Emergency Response			888-233-7745		
County Emergency Management			(		

Sources – Groundwater and GWUDI							
Source Name and Location	Well type, spring, or other source	Well depth (ft)	Safe yield (gpm)	Pump rate (gpm)	Pump set depth (ft)	Pump Make, Model & HP	Source use (primary, auxiliary, emerg.)

System Pumps					
Pump Name, Location	Pump Make, Model & HP	Pump Rate (gpm)	Comments (pump control method, etc.)		

Water System Name \_\_\_\_\_\_

(Can change to gas, etc.)

	Treatment - Liquid Chlorine (hypochlorite)					
	Undiluted strength (5%, 12.5%, etc.)		Target chlorine residual at entry point to system (ppm)			
	Day tank capacity (gal)		Chlorine to water mix ratio			
MODIF	Y AS NEEDED		Pump make and model			
			Maximum pump rate (gpm or gph)			
	Day tank filling instructions					
			Typical pump speed and stroke settings			
	MSDS	MSDS sheet posted where che	mical is stored and used and	copy is attached here		
	Chemical supplier name and contact information					
	Comments					

Storage		l			
Storage Tank Name, Location			sure or espheric	Storage (gal)	Comments (operating levels, cleaning methods, frequency, etc.)
Location		Aunc	sprieric	(gai)	methous, frequency, etc.)
Operating Press	ures				
	Low		High	Comme	nts
System pressure					
settings (psi)					
	I		I		
Distribution Sys	tem- (	can a	attach i	maps, ex	planations, etc.
Type of Pipe					
Distribution main					
size(s)					
Service connection shut-off locations					
Number of main					
valves					
Valve Name or #	Locati	on			Shuts off what area

Sample Sites-can attach site sample plan						
Description	Location/Address/Resident Name	Chlorine	Total Coliform	Disinfection Byproducts	Lead & Copper	Other
Raw Water						
" "						
Entry Point						
" "						
Distribution						

Back-Up Power	
Onsite Generator - make, model, elec capacity, fuel type, fuel storage	
Offsite Generator - capacity, source, contact info, transportation	
Power Transfer - transfer switch type, location, step by step procedures	
Exercise schedule and procedures	

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Treatment - Other Chemical (e.g. corrosion control)				
Chemical name		Commercial product strength (pH, %, etc.)		
Reason for use		Target residual and sample location		
Day tank capacity (gal)		Day tank mix ratio		
		Pump make and model		
		Maximum pump rate (gpm or gph)		
Day tank filling instructions		Typical pump speed and stroke settings		
MSDS	MSDS sheet posted where chemica	al is stored and used and o	copy is attached here	
Chemical supplier name and contact information				
Comments				

<b>Water S</b>	vstem	Name
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### **CAN DELETE PAGES IF NOT NEEDED**

Treatment - Ultraviolet Disinfection				
Make and Model		Design flow rate (gpm)		
Target intensity meter reading (%)		Quartz sleeve cleaning frequency		
Spare parts available (e.g. quartz sleeve, bulb, and o-rings)				
Describe cleaning & bulb replacement procedures				
Service name and contact information				
Comments				

Treatment - Other	er (e.g. cartridge filtration, softe	ening, etc.)	
Treatment description		Design flow rate (gpm)	
Describe maintenance, parts replacement and backwash procedures			
Service name and contact information			
Comments			

# Standard Operating Procedure (SOP) Tasks Calendar MAKE CHANGES AS NEEDED

PWS Name:	
<b>Schedule for Daily Task</b>	s:
Task	Notes
Collect entry point free chlorine residual sample and record on monthly operation report	The free chlorine residual should be at least mg/l at the entry point to the system.
Check chlorine day tank, record amount used, and refill as needed	When the level in the chlorine day tank is down to gals add qts/gals of % chlorine and gals of water.
Inspect chlorine feed pump(s)	Confirm chemical is pumping correctly and there are no air bubbles trapped in the feed line, etc.
Record water plant meter readings & calculate total daily production	Average day demand in summer is gals per day (gpd) and in winter is gpd. If demands are higher than this for more than three days, there may be a leak.
Record pump run times and start cycles	Pumps normally run hours per day in the summer and hours per day in the winter.
Conduct a general security check	Inspect windows, doors, hatches, screens, well caps, fences, gates, lighting, locks, and alarms. Check if locked or set, look for tampering or vandalism.
Collect other chemical samples as needed	The measured amount of should be at least mg/l at this sample location
	The measured amount of should be at least mg/l at this sample location
	The measured pH should be within range at this sample location
Check other chemical day tank, record amount used, and refill as needed	When the level in the day tank is down to gals add qts/gals chemical and gals of water.
Inspect other chemical feed pump(s)	Confirm chemical is pumping correctly and there are no air bubbles trapped in the feed line, etc.
Check and record water levels in storage tanks	The storage tank normally operates between feet of water.
Check other treatment processes such as cartridge filters or softeners	Cartridge filters need to be changed when the head loss is greater than psi. Recharge softener with salt as needed.

## Standard Operating Procedure (SOP) Tasks Calendar

### **PWS Name:**

### Schedule of Tasks for the Year:

° Place an "x" in each month that the task is required or planned to be performed, then enter the date or a "√" when task is completed.

Task	Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Submit previous month's operation report to IDEM by the 10 <sup>th</sup>	Monthly												
Check distribution system chlorine residual	times per Month												
Collect Total Coliform Sample(s)	Quarterly												
Exercise emergency generator for 30 minutes under full load conditions and check all fluid and fuel levels	Monthly												
Inspect wellheads, controls, seals, vent and screen.	Monthly												
Inspect tank overflow, vent screens, and hatches	Monthly												
Inspect chemical feed pump(s), seals, tubing, injection points etc.	Monthly												
Lubricate pumps, motors, blowers, and all moving/rotating equipment	Quarterly												
Inspect all pump house water lines, gaskets and fittings for corrosion and leaks	Quarterly												

## Standard Operating Procedure (SOP) Tasks Calendar

### **PWS Name:**

### Schedule of Tasks for the Year:

° Place an "x" in each month that the task is required or planned to be performed, then enter the date or a "√" when task is completed.

Place an "x" in each month that the task is required or planned to be performed, then enter the date or a "\" when task is completed.													
Task	Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Clean and inspect chemical solution tanks	Quarterly												
Calibrate chemical feed pumps	Quarterly												
Review the attached DOH supplied sampling requirements chart, and collect any that are due	Quarterly												
Flush dead end lines in distribution system	times per year												
Flush distribution system using unidirectional flushing plan and exercise all valves	1-2 times per year												
Prepare and distribute Consumer Confidence Report (CCR) to Consumers	Annual												
Submit CCR to IDEM include certification that CCR was delivered to consumers	Annual												
Update emergency plan and emergency contact information, provide update info to IDEM	Annual												

### **Standard Operating Procedure (SOP)** Tasks Calendar

### **PWS Name:**

### Schedule of Tasks for the Year:

° Place an "x" in each month to Task	Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Inspect storage tanks for defects, leaks, and sanitary deficiencies - clean and repair as needed	Annual					,			2 44 9				233
Confirm all backflow prevention devices are tested by a certified tester	Annual												
Exercise all fire hydrants and check all fire hydrant valves	Annual												
Clean, inspect and repair all safety equipment	Annual												
Perform building preventative maintenance	Annual												