Operations Plan for a Small Water System (Groundwater Source)

Submit to: Shasta County Environmental Health Division (SCEHD) 1855 Placer Street, Suite 201, Redding CA 96001 Phone: (530) 225-5787

	Date of Plan:		
System Name:		System No	_
Physical Location Address	s:		
Mailing Address:			
Contact Name:	Phone:	Email:	_
The Water System ag	rees to implement all outlin	ed procedures in this Operations Plan.	
I. BRIEF DESCRIPTION	ON OF SYSTEM:		
	nunity (CWS)		
Number of service connec	tions:	Population served:	
☐ Seasonal	nd population: population & time frame: pulation:		
Source(s) (date of drilling, of	lepth, perforations, pump sett	ing):	
			_
Storage and Pressure Tan	k(s) (capacity and material): _		_ _ _
		o, manufacturer and model, size of the chlor ion):	_ ine _ _
Other:			_

II.	OPERATOR CERTIFICATION		
Distril	oution System Class: D1 D2	Treatment System Class: T1	☐ T2 ☐ N/A

Position	Name	Contact Info (Phone & Email)	Certification Level & No.	Responsibilities
Certified Distribution Operator (chief)				
Certified Distribution Operator (shift)				
Certified Treatment Operator				
Trained Personnel				
Cross Connection Specialist				
Water Sampler				

ROUTINE OPERATIONAL PROCEDURES FOR SYSTEM:

Table 1: Routine Operations Checklist

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System Component	Activity	Frequency	Record- keeping?*	Responsible Party (fill in)
	Check potential sanitary hazards: water leaks that could contaminate well, unscreened or openings where sealants can be applied, electrical hazards, chemical hazards (proper use of chemicals around well head).	Monthly	N/A	
WELL(S)	Well has the ability to be pumped to waste and sampling tap is non-threaded down-turned hose bib).	Annually	N/A	
	Check the pump and controls for proper operation of well.	Monthly	N/A	
	General housekeeping: remove animal feces, dirt, vegetation, any standing water, control gophers/squirrel burrowing around well head to eliminate potential contamination hazards, etc.	Monthly	N/A	
	Inspect vents and overflow outlets for proper protection (screens, flapper valve, etc.) to keep out rodents and insects.	Monthly	N/A	
STORAGE and	Inspect for any leaks or damage and repair as needed.	Monthly	Yes	
PRESSURE TANKS	Record system pressure. Record the pressure the pump turns on, the pressure the pump turns off and the duration of the run time so storage tank does not overflow.	Monthly	Yes	
	Schedule inspection and cleaning of storage tank.	Every 5 years	Yes	
GAUGES and FLOWMETERS	Inspect all gauges and flowmeters for leaks and proper function, and repair or replace as necessary. Schedule routine calibration checks to ensure accurate readings are being provided.	Monthly	Yes – when repaired or replaced.	
	Record monthly water production year-round and weekly water production during the summer months.	Monthly	Yes – upload to Electronic Annual Report	
VALVES	Inspect valves for leaks, and repair or replace as necessary.	Monthly	Yes – when repaired or replaced.	
	Exercise valves on a schedule, as needed.	Annually	Yes	
	Visually inspect the distribution system for leaks.	Monthly	Yes	
	Flush dead end mains or lines periodically	Annually	yes	
	Test backflow prevention devices annually.	Annually	Yes – upload to Electronic Annual Report	
DISTRIBUTION FACIILITIES	Develop and maintain a cross-connection program to prevent contamination of potable water supply from unapproved source. Conduct cross-connection survey every 5 years.	Every 5 years	Yes – send copy of survey to SCEHD	Certified Operator or Cross Connection Specialist
	Review and update Bacteriological Sample Siting Plan (BSSP), at minimum of 10 years, to ensure it reflects current customer base and service area	Every 10 years	Yes – send to SCEHD for approval	
	Inspect the pump and chlorine reservoir and fill up as needed. Ensure chlorine chemical is NSF approved.	Monthly	N/A	Certified Operator
CHLORINATION (if applicable)	Measure disinfectant residual.	Daily	Yes – send results monthly to SCEHD	Certified Operator or Trained Personnel

OTHER: Describe any hauled water system).	other operational	procedures	for any othe	r aspects	of the wat	er system (e.ç
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*Tip: Maintain a log book for each well site that records maintenance and monthly water production and flow rates, water table depths and any maintenance performed.

III. WATER QUALITY MONITORING:

Table 2: Routine Water Quality Sampling Checklist

Location	Type of Monitoring	Which systems	Frequency	Reporting
SOURCE WATER	Chemical & Radiological	Only CWS & NTNC	See Water Quality Monitoring Schedule	Lab EDT's to DDW and hard copy to SCEHD
SOURCE WATER	Bacteriological	All systems that chlorinate	Quarterly	System send results to SCEHD monthly
DISTRIBUTION SYSTEM	Bacteriological	All	Monthly for CWS & NTNC Quarterly for TNC	System sends results to SCEHD monthly
	Disinfection Byproducts (DBP)	Only CWS & NTNC with chlorination	See approved Stage 2 DBP Plan	Lab EDT's to DDW and hard copy to SCEHD
	Lead & Copper	Only CWS & NTNC	Consult with SCEHD	System sends results to SCEHD

State Water Resources Control Board – Division of Drinking Water (DDW)

IV. REQUIRED PLANS

Table 3: Water System Planning Tools Checklist

Туре	Name	Which systems	Frequency
	Emergency Notification Plan	All	Update annually or whenever contact information changes
	Small Water System Operations Plan	All	Update whenever there are changes
	Chlorination Operations Plan (for systems that chlorinate)	Only for systems that chlorinate	Update whenever there are changes to personnel
OPERATIONS PLANS	Emergency Disinfection Plan (for systems that do not chlorinate)	Only for systems that do not chlorinate	Update whenever there are changes to personnel
	Cross Connection Survey	All	Every 5 years
	Emergency Response Plan	All	Update whenever there are changes to personnel
	Service Area and Facility Map	All	Update whenever there are changes
	Bacteriological Sample Siting Plan	All	Every 10 years
WATER QUALITY PLANS	Stage 2 Disinfection By Product Plan	Only CWS & NTNC systems that chlorinate	Consult with SCEHD
	Lead and Copper Plan	Only CWS & NTNC	Consult with SCEHD

V. REQUIRED REPORTING

Table 4: Monitoring and Reporting Required Reports

Name	Frequency	Required Activities	
Electronic Annual Report (EAR)	Annual, due March 31 st	Fill out at EAR portal: http://drinc.ca.gov/ear/Login.aspx.	
Consumer Confidence Report (CCR)	Annual, Due July 1 st	Fill out a CCR document. Template at http://www.swrcb.ca.gov/drinking_water/certlic/drinkingwater/CCR.shtml . Upload CCR document and Certification of Delivery at EAR portal http://drinc.ca.gov/ear/Login.aspx . Deliver to all customers	
Water Production	Monthly	Record every month. Upload data annually in EAR.	
Treatment Report (except chlorination)	Monthly	Send Treatment Reports summarizing effluent results by hardcopy or fax to the SCEHD.	
Chlorine Residual Report	Monthly	Measure daily chlorine residuals and send monthly log to the SCEHD signed off by the Certified Operator.	
Bacteriological Report	Monthly for CWS & NTNC Quarterly for TNC	Due to the SCEHD of by the 10 th day following the month of the sample collected.	
Compliance Order	Quarterly*	Sampling, Public Notification, Progress Report	
*Or as indicated otherwise in issued Compliance Order.			

A. WATER QUALITY EXCEEDANCES (If applicable)

• If an MCL is exceeded, the water system must notify the SCEHD immediately upon receipt of the exceedance.

VI. <u>EMERGENCY OPERATIONAL PRACTICES:</u>

Table 5: List of Sources of Needed **Equipment**, **Not on Hand**.

Name	Address	Phone #	Equipment	Rental/ Contract
			Steel Tank Welder	
			Electrical repair	
			Digging equipment	
			Generator	
			Chemicals	

Table 6: List of Distributors or Suppliers of Replacement Parts for the System

Name	Address	Phone #	Equipment
			PVC pipe, valves, and fittings
			Pumps, pressure tank and gauges
			Chlorinator

Table 7: List of Emergency Contact Numbers

Table 7. List of Efficiency Contact Numbers				
Name	Phone #			
Shasta County Environmental Health Division Steve Watson, State Water Resources Control Board	Office: (530) 225-5787 Office: (530) 224-4800			
Water System Owner –				
Certified Operators (include certification level) –				
Laboratory –				
Pump repair service –				
Chemical disinfectant supplier –				
Equipment supplier –				
Electrician –				
Law Enforcement –				

VII. FILE ATTACHMENTS

With this Operations Plan, we strongly recommend that you create a multi-tabbed binder that includes the following file attachments (check all that apply):

Permits:	Water Quality:
☐ Domestic Water Supply Permit	☐ Bacteriological Sample Siting Plan (BSSP) – update every 10 years
 Domestic Water Supply Permit Amendment(s) (describing modification or addition of new sources, treatment, or transfer of ownership) 	☐ Water Quality Monitoring Schedule for chemicals – ask SCEHD for most recent version
Water System Information:	☐ Stage 2 Disinfection Byproduct Sampling Plan
☐ System schematics, map of distribution system	☐ Lead and Copper Monitoring Plan
Plans and specifications related to wells, water lines and valve locations, pump, storage tank, pressure tank, etc.	☐ Ground Water Rule Plan☐ Treatment or Blending Operations Plan – for
☐ Department of Water Resources (DWR) Well Completion Report (a.k.a. Well Log)	systems that have treatment only (not chlorination)
County well construction permit (describing adequate horizontal protection of well from sanitary hazards)	Required monthly treatment or blending reports to the SCEHD – for systems that have treatment only (not chlorination)
Operations:	☐ Annual Consumer Confidence Reports (CCRs) and Delivery Certification form to SCEHD
☐ Operational and service records ☐ Chlorination Plan	 Public notifications (water quality exceedances, boil water orders, etc.) and proof of public notification to SCEHD
☐ Water production logs	☐ Hardcopies of all water quality laboratory results
☐ Hardcopies of annual Electronic Annual Report (EAR)	Other:
☐ Cross Connection Survey – every 5 years	☐ Enforcement History from the SCEHD – Enforcement Letters, Citations, or Compliance Orders
Operator Certification	☐ Funding projects
☐ Customer Complaint Program	☐ General correspondence with SCEHD, operator,
☐ Sanitary survey inspection reports and list of deficiencies from SCEHD	etc.
Emergency:	Other:
☐ Emergency Notification Plan (ENP)	
☐ Emergency Response Plan	
☐ Emergency Chlorination Plan	

The Water System agrees to implement all outlined procedures in this Operations Plan. The Water System shall update this Operations Plan as needed and also send an updated version to the SCEHD.

Water System Name:	System No
Name of the Person Preparing the Operations Plan:	
Title & Organization:	
Signature of the Person:	Date: