

## **What requirements does a regulated water system need to meet?**

*There are requirements that apply to all regulated water systems in California. These requirements include, but are not limited to:*

### ***Bacteriological Sample Site Plan***

*The Bac-T sample site plan, as we call it, is a document that clearly defines what the water source is, raw water sampling requirements, routine and repeat sample locations, as well as the system operator & laboratory contracted to perform water samples.*

### ***Emergency Notification Plan***

*The emergency notification plan outlines who and how people will be notified if the water is determined to be contaminated*

### ***Water Permit***

*The water permit outlines the water sources, water source capacities, water supply requirements, approved treatment (if any) and locations & sizes of storage tanks. The water permit also delineates the specific type of water system which determines the type of water testing that will be required and the type and level of certification of the Water System Operator.*

### ***Water System Operator***

*All regulated water systems, with the exception of State Small systems, require a Water System Operator. The Operator must have the appropriate certification (D1-D5, T1-T5) from the California State Department of Public Health and the local regulatory agency must have a copy of the contract between the operator and the water system that outlines responsibilities, etc....*

### ***Consumer Confidence Reports (CCR's)***

*CCR's must be generated every year and given to the consumer and regulatory agency before June of the following year. The CCR tells consumer what contaminants are in their water, what the health effects are, if the water system did not take samples required, & gives the water consumer the opportunity to be informed about what they are consuming and who to contact if they have questions or concerns.*

### **System Inspection(s)**

County or State Inspectors typically look at each regulated water system at least once per year. This is done to ensure that the water system is still operating within the guidelines set forth in the permit and to ensure there are no modifications to the water system that would jeopardize the water quality.

### **Hazardous Materials Permit**

Water systems that use large quantities of chemicals like chlorine, sodium hydroxide, etc... need a Hazardous materials permit. This permit ensures the materials are stored/used in a safe manner with appropriate safety & first aid equipment and that various fire departments/hazardous materials crews are aware of the type & quantity of hazardous materials onsite so they can respond appropriately.

### **Water System Map**

The water system map shows where water sources, treatment plants, pipelines, water connections, storage tanks, fire hydrants & sample locations for reference.

### **Cyclical Water Testing**

**Bacteria**-The raw, untreated water from a well typically needs to be tested on a quarterly basis for bacteriological contamination with bacteriological tests from the water distribution system on a monthly basis. This frequency may be increased if problems are evident or as system size/population served increases. Bacteriological testing must be performed carefully to eliminate possible contamination of the sample and must be submitted for proper analysis technique in order for the results to be accepted by the regulatory agency.

**Source Chemical Testing**- Source Chemical testing is a look at various mineral, chemical, metal and disinfection byproduct contaminates. Source Chemical Testing is required on a continued rotating basis with some tests occurring quarterly, some yearly and some every 3-7 years. The extent of Source Chemical testing is rather minimal for State Small Systems and rather extensive for Community water Systems. Please refer to these specific requirements below.

# State Small System Source Monitoring Requirements

Name of System (28-00000)

Source Number:

Source Code:

Date of report:

Ground Water - NCWS

State Small

*\*\*NOTE : Source water samples must be collected from the raw water source prior to any treatment.*

Chemical Group: 64432.1 - Primary - Nitrate/Nitrite

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
Nitrate (as NO3)		mg/L	45		once per year		
Nitrite (as N)		ug/L	1000		once every three years		

Chemical Group: 64432 - Primary - Inorganics

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
Aluminum		ug/L	1000		one time sample required		
Antimony		ug/L	6		one time sample required		
Arsenic		ug/L	10		one time sample required		
Barium		ug/L	1000		one time sample required		
Beryllium		ug/L	4		one time sample required		
Cadmium		ug/L	5		one time sample required		
Chromium		ug/L	50		one time sample required		
Fluoride		mg/L	2		one time sample required		
Mercury		ug/L	2		one time sample required		
Nickel		ug/L	100		one time sample required		
Selenium		ug/L	50		one time sample required		
Thallium		ug/L	2		one time sample required		

Chemical Group: 64449-A&B - Secondary Standards

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
Bicarbonate		mg/L			one time sample required		
Calcium		mg/L			one time sample required		
Carbonate		mg/L			one time sample required		
Hydroxide		mg/L			one time sample required		
Iron		ug/L	300		one time sample required		
Magnesium		mg/L			one time sample required		
Manganese		ug/L	50		one time sample required		
Sodium		mg/L			one time sample required		
Total Alkalinity (As CaCO3)		mg/L			one time sample required		
Total Hardness		mg/L			one time sample required		
pH					one time sample required		

# Transient Non-Community Source Monitoring Requirements

Name of System (28-00000)

Source Number:

Source Code:

Date of report:

Ground Water - NCWS

Transient Non Community

*\*\*NOTE : Source water samples must be collected from the raw water source prior to any treatment.*

Chemical Group: 64432.1 - Primary - Nitrate/Nitrite

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
Nitrate (as NO3)		mg/L	45		once per year		
Nitrite (as N)		ug/L	1000		once every three years		

Chemical Group: 64432 - Primary - Inorganics

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
Aluminum		ug/L	1000		one time sample required		
Antimony		ug/L	6		one time sample required		
Arsenic		ug/L	10		one time sample required		
Barium		ug/L	1000		one time sample required		
Beryllium		ug/L	4		one time sample required		
Cadmium		ug/L	5		one time sample required		
Chromium		ug/L	50		one time sample required		
Fluoride		mg/L	2		one time sample required		
Mercury		ug/L	2		one time sample required		
Nickel		ug/L	100		one time sample required		
Selenium		ug/L	50		one time sample required		
Thallium		ug/L	2		one time sample required		

Chemical Group: 64449-A&B - Secondary Standards

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
Bicarbonate		mg/L			one time sample required		
Calcium		mg/L			one time sample required		
Carbonate		mg/L			one time sample required		
Hydroxide		mg/L			one time sample required		
Iron		ug/L	300		one time sample required		
Magnesium		mg/L			one time sample required		
Manganese		ug/L	50		one time sample required		
Sodium		mg/L			one time sample required		
Total Alkalinity (As CaCO3)		mg/L			one time sample required		
Total Hardness		mg/L			one time sample required		
pH					one time sample required		

# Non-Transient Non-Community Source Monitoring Requirements

Name of Water System (28-00000)

Source Number:

Date of report:

Source Code:

Ground Water - NTNC

Non-Transient Non Community

**\*\*NOTE** : Source water samples must be collected from the raw water source prior to any treatment.

Chemical Group: 64432 - Primary - Inorganics

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
<b>64432 - Primary - Inorganics</b>							
Aluminum		ug/L	1000		once every three years		
Antimony		ug/L	6		once every three years		
Arsenic		ug/L	10		once every three years		
Barium		ug/L	1000		once every three years		
Beryllium		ug/L	4		once every three years		
Cadmium		ug/L	5		once every three years		
Chromium		ug/L	50		once every three years		
Fluoride		mg/L	2		once every three years		
Mercury		ug/L	2		once every three years		
Nickel		ug/L	100		once every three years		
Selenium		ug/L	50		once every three years		
Thallium		ug/L	2		once every three years		

Chemical Group: 64432 - Primary - Asbestos

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
Asbestos		MFL	7		once every nine years		

Chemical Group: 64432.1 - Primary - Nitrate/Nitrite

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
Nitrate (as NO3)		mg/L	45		once per year		
Nitrite (as N)		ug/L	1000		once per year		

Chemical Group: 64432 - Primary - Perchlorate

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
Perchlorate		ug/L	6		2 initial samples 5 to 7 months apart		

Chemical Group: 64449-A&B - Secondary Standards

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
Bicarbonate		mg/L			once every three years		
Calcium		mg/L			once every three years		
Carbonate		mg/L			once every three years		
Hydroxide		mg/L			once every three years		
Iron		ug/L	300		once every three years		
Magnesium		mg/L			once every three years		
Manganese		ug/L	50		once every three years		
Sodium		mg/L			once every three years		
Total Alkalinity (As CaCO3)		mg/L			once every three years		
Total Hardness		mg/L			once every three years		
pH					once every three years		

Chemical Group: 64441 - Radioactivity

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
Gross Alpha	0	pC/L	15		4 consecutive quarterly samples		results determine future sampling frequency and if

Gross Alpha	1.14 +/-1.33	pC/L	15		4 consecutive quarterly samples		results determine future sampling frequency and if add'l tests are required
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Chemical Group: 64444-A - Volatile Organic Chemicals

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
1,1,1-Trichloroethane		ug/L	200		once every five years		
1,1,2,2-Tetrachloroethane		ug/L	1		once every five years		
1,1,2-Trichloro-1,2,2-Trifluoroethane		ug/L	1200		once every five years		
1,1,2-Trichloroethane		ug/L	5		once every five years		
1,1-Dichloroethane		ug/L	5		once every five years		
1,1-Dichloroethylene		ug/L	6		once every five years		
1,2,4-Trichlorobenzene		ug/L	70		once every five years		
1,2-Dichlorobenzene		ug/L	600		once every five years		
1,2-Dichloroethane		ug/L	0.5		once every five years		
1,2-Dichloropropane		ug/L	5		once every five years		
1,3-Dichloropropene		ug/L	0.5		once every five years		
1,4-Dichlorobenzene		ug/L	5		once every five years		
Benzene		ug/L	1		once every five years		
Carbon Tetrachloride		ug/L	0.5		once every five years		
Dichloromethane		ug/L	5		once every five years		
Ethylbenzene		ug/L	700		once every five years		
Methyl-tert-Butyl Ether (MTBE)		ug/L	13		once every five years		
Monochlorobenzene		ug/L	70		once every five years		
Styrene		ug/L	100		once every five years		
Tetrachloroethylene		ug/L	5		once every five years		
Toluene		ug/L	150		once every five years		
Trichloroethylene		ug/L	5		once every five years		
Trichlorofluoromethane		ug/L	150		once every five years		
Vinyl Chloride		ug/L	0.5		once every five years		
Xylenes (total)		ug/L	1750		once every five years		
cis-1,2-Dichloroethylene		ug/L	6		once every five years		
trans-1,2-Dichloroethylene		ug/L	10		once every five years		

Chemical Group: 64444-B - Synthetic Organic Chemicals

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
2,4,5-TP (Silvex)		ug/L	50		once		
2,4-D		ug/L	70		once		
Atrazine		ug/L	3		once every three years		
Carbofuran		ug/L	18		once every three years		
Dalapon		ug/L	200		once every three years		
Dinoseb		ug/L	7		once every three years		
Diquat		ug/L	20		once every three years		
Endothall		ug/L	100		once every three years		
Ethylene Dibromide (EDB)		ug/L	0.05		once		
Heptachlor		ug/L	0.01		once		
Heptachlor Epoxide		ug/L	0.01		once		
Lindane		ug/L	0.2		once		
Methoxychlor		ug/L	40		once		
Oxamyl		ug/L	200		once every three years		
Pentachlorophenol		ug/L	1		once every three years		
Picloram		ug/L	500		once every three years		
Simazine		ug/L	4		once every three years		
Toxaphene		ug/L	3		once		

Disinfection Byproduct Rule Plan-Collected from Site Identified on Approved Plan (IF APPLICABLE)

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
TTHM		ug/L	80		Once per year		
HAA-5		ug/L	60		Once per year		

Chemical Group: 64672 - Lead and Copper Tap Sampling

**\*\*Note :** Lead and copper samples must be collected from within the distribution system, not directly from the source.

**\*\* to be completed once distribution system is completed and permit is issued**

**\*\*1st Round:**

Chemical	90th Percentile Results	Units	Action Level	Date of 1st round	Number of Samples	2nd Round Due Date	Notes
Lead		mg/L	0.015		5		
Copper		mg/L	1.3		5		

**\*\*2nd Round:**

Chemical	90th Percentile Results	Units	Action Level	Date of 2nd round	Number of Samples	Next Due	Notes
Lead		mg/L	0.015				
Copper		mg/L	1.3				

Routine Lead and Copper Tap Sampling

Chemical	90th Percentile Results	Units	Action Level	Date of last round	Number of Samples	Next Due	Notes
Lead		mg/L	0.015				due annually for 3 years minimum
Copper		mg/L	1.3				



# Community System Source Monitoring Requirements

name of water system (28-)

Source Number:

Date of report:

Source Code:

Ground Water - CTGA

Community

**\*\*NOTE :** Source water samples must be collected from the raw water source prior to any treatment.

Chemical Group: 64432 - Primary - Inorganics

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
<b>64432- Primary - Inorganics</b>							
Aluminum		ug/L	1000		once every three years		
Antimony		ug/L	6		once every three years		
Arsenic		ug/L	10		once every three years		
Barium		ug/L	1000		once every three years		
Beryllium		ug/L	4		once every three years		
Cadmium		ug/L	5		once every three years		
Chromium		ug/L	50		once every three years		
Fluoride		mg/L	2		once every three years		
Mercury		ug/L	2		once every three years		
Nickel		ug/L	100		once every three years		
Selenium		ug/L	50		once every three years		
Thallium		ug/L	2		once every three years		

Chemical Group: 64432 - Primary - Asbestos

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
Asbestos	ND	MFL	7	1-Apr-98	once every nine years		

Chemical Group: 64432.1 - Primary - Nitrate/Nitrite

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
Nitrate (as NO3)		mg/L	45		once per year		
Nitrite (as N)		ug/L	1000		once per year		

Chemical Group: 64432 - Primary - Perchlorate

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
Perchlorate		ug/L	6		2 initial samples 5 to 7 months apart		

Chemical Group: 64449-A&B - Secondary Standards

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
Aggressive Index					once every three years		
Bicarbonate		mg/L			once every three years		
Calcium		mg/L			once every three years		
Carbonate		mg/L			once every three years		
Chloride		mg/L			once every three years		
Color		UNIT	15		once every three years		
Copper		ug/L	1000		once every three years		
Foaming Agents (MBAS)		ug/L	500		once every three years		
Hydroxide		mg/L			once every three years		
Iron		ug/L	300		once every three years		
Methyl-tert-Butyl Ether (MTBE)		ug/L	5		once every three years		
Magnesium		mg/L			once every three years		
Manganese		ug/L	50		once every three years		
Odor		UNIT	3		once every three years		
Silver		ug/L	100		once every three years		
Sodium		mg/L			once every three years		
Specific Conductance		uMho			once every three years		
Sulfate		mg/L			once every three years		
TDS		mg/L			once every three years		
Total Alkalinity (As CaCO3)		mg/L			once every three years		
Total Hardness		mg/L			once every three years		
Turbidity		NTU	5		once every three years		
Zinc		ug/L			once every three years		

pH					once every three years		
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Chemical Group: 64441 - Radioactivity

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
Gross Alpha		pC/L			4 consecutive quarterly samples		frequency based on results and counting error
Radium-228		pC/L			4 consecutive quarterly samples		frequency based on results and counting error

Chemical Group: 64444-A - Volatile Organic Chemicals

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
1,1,1-Trichloroethane		ug/L	200		once every five years		
1,1,2,2-Tetrachloroethane		ug/L	1		once every five years		
1,1,2-Trichloro-1,2,2-Trifluoroethane		ug/L	1200		once every five years		
1,1,2-Trichloroethane		ug/L	5		once every five years		
1,1-Dichloroethane		ug/L	5		once every five years		
1,1-Dichloroethylene		ug/L	6		once every five years		
1,2,4-Trichlorobenzene		ug/L	70		once every five years		
1,2-Dichlorobenzene		ug/L	600		once every five years		
1,2-Dichloroethane		ug/L	0.5		once every five years		
1,2-Dichloropropane		ug/L	5		once every five years		
1,3-Dichloropropene		ug/L	0.5		once every five years		
1,4-Dichlorobenzene		ug/L	5		once every five years		
Benzene		ug/L	1		once every five years		
Carbon Tetrachloride		ug/L	0.5		once every five years		
Dichloromethane		ug/L	5		once every five years		
Ethylbenzene		ug/L	700		once every five years		
Methyl-tert-Butyl Ether (MTBE)		ug/L	13		once every five years		
Monochlorobenzene		ug/L	70		once every five years		
Styrene		ug/L	100		once every five years		
Tetrachloroethylene		ug/L	5		once every five years		
Toluene		ug/L	150		once every five years		
Trichloroethylene		ug/L	5		once every five years		
Trichlorofluoromethane		ug/L	150		once every five years		
Vinyl Chloride		ug/L	0.5		once every five years		
Xylenes (total)		ug/L	1750		once every five years		
cis-1,2-Dichloroethylene		ug/L	6		once every five years		
trans-1,2-Dichloroethylene		ug/L	10		once every five years		

Chemical Group: 64444-B - Synthetic Organic Chemicals

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
2,4,5-TP (Silvex)		ug/L	50		once		
2,4-D		ug/L	70		once		
Atrazine		ug/L	3		once every three years		
Carbofuran		ug/L	18		once every three years		
Dalapon		ug/L	200		once every three years		
Dinoseb		ug/L	7		once every three years		
Diquat		ug/L	20		once every three years		
Endothall		ug/L	100		once every three years		
Ethylene Dibromide (EDB)		ug/L	0.05		once		
Heptachlor		ug/L	0.01		once		
Heptachlor Epoxide		ug/L	0.01		once		
Lindane		ug/L	0.2		once		
Methoxychlor		ug/L	40		once		
Oxamyl		ug/L	200		once every three years		
Pentachlorophenol		ug/L	1		once every three years		
Picloram		ug/L	500		once every three years		
Simazine		ug/L	4		once every three years		
Toxaphene		ug/L	3		once		

Disinfection Byproduct Rule Plan-Collected from Site Identified on Approved Plan (if applicable)

Chemical	Last results	Units	MCL	Date of last	FREQUENCY	Next Due	Notes
TTHM		ug/L	80		once every three years		*increased frequency based
HAA-5		ug/L	60		once every three years		testing results

Chemical Group: 64672 - Lead and Copper Tap Sampling

**Note:** Lead and copper samples must be collected from within the distribution system, not directly from the source.

**1st Round:**

Chemical	90th Percentile Results	Units	Action Level	Date of 1st round	Number of Samples	2nd Round Due Date	Notes
Lead	<.005	mg/L	0.015	1-Apr-98			
Copper	<.05	mg/L	1.3				

**2nd Round:**

Chemical	90th Percentile Results	Units	Action Level	Date of 2nd round	Number of Samples	Next Due	Notes
Lead		mg/L	0.015				
Copper		mg/L	1.3				

**Routine Lead and Copper Tap Sampling**

Chemical	90th Percentile Results	Units	Action Level	Date of last round	Number of Samples	Next Due	Notes
Lead		mg/L	0.015				due annually for 3 years minimum
Copper		mg/L	1.3				