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BEFORE THE ARIZONA CORPORATION COMMISSION

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IN THE MATTER OF THE
APPLICATION OF F. WAYNE &
DOROTHY THOMPSON DBA WEST
VILLAGE WATER CO., FOR A RATE
INCREASE

Docket No. W-03211A-08-0621
Docket No. W-03211A-08-0622

FILING OF WATER SYSTEM
EVALUATION

F. Wayne & Dorothy Thompson dba West Village Water Company ("West Village" or "Company"), hereby submits the Water System Evaluation for the West Village water system ("Evaluation"). The Company received the Evaluation on August 11, 2009 and with this filing hereby notifies the Arizona Corporation Commission Staff as ordered.

RESPECTFULLY SUBMITTED this 13th day of August, 2009.

Moyes Sellers & Sims

Arizona Corporation Commission

DOCKETED

AUG 18 2009

Steve Wene

Steve Wene

Attorneys for West Village Water Company

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DOCKETED BY *[Signature]*

1 Original and 15 copies of the foregoing
2 filed this 13th day of August, 2009, with:

3 Docket Control
4 Arizona Corporation Commission
5 1200 West Washington
6 Phoenix, Arizona 85007

7 Copy of the foregoing mailed this
8 13th day of August, 2009, to:

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**West Village Water System
Flagstaff, Arizona**

PWS # 0403021

**Drinking Water Technical Assistance
System Evaluation**

June 2009

Prepared for Arizona Department of Environmental Quality

By:



FANN ENVIRONMENTAL, LLC.
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Prescott, AZ 85305

**West Village Water System
WATER SYSTEM EVALUATION**

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1.0 INTRODUCTION

1.1 *Background, Purpose and Scope*

The Arizona Department of Environmental Quality (ADEQ) and the Water Infrastructure Finance Authority (WIFA) have partnered together to procure the services of qualified firms to provide contractual services to evaluate Arizona Public Water Systems (PWS) based on Arizona System Evaluations for regulated public water systems (SE). Other documents may be developed for systems, including an Security Vulnerability Assessments (VA) for small public water systems, Emergency Response Plans (ERP), and Operations and Maintenance Plans on an as-needed basis.

The prepared documents are utilized by ADEQ and WIFA to determine the priority ranking and funding needs for the PWSs and provide operational guidance to the facility operator and owner.

ADEQ will select the PWS that needs to have a qualified firm review the system. Once selected the qualified firm will utilize the required forms and provide the requested evaluation. This may be an SE, VA, ERP or a combination of several reports.

ADEQ has requested that Fann Environmental perform a SE for the West Village Water System (System #0403021) located in Flagstaff, Arizona. This document will utilize the SE forms provided by ADEQ.

1.2 *Assumptions*

The evaluation summarized in this report is based on the information provided by the System Operator, Mr. Jon Zimmermann, System Manager Allen Ginsberg, Bookkeeper Elaine Cameron and their Meter Reader Gabriel Ruiz during the site visit conducted on May 22, 2009. The Arizona System Evaluation for Regulated Public Water Systems Questionnaire was filled out and is presented in Appendix A. Fann Environmental, LLC relied on the information, under the scope of this project, provided by the representatives previously identified and was independently able to verify a majority of this information.

2.0 PART I - WATER SYSTEM INFORMATION

2.1 Water Source

The West Village Water System (Village) relies solely on ground water that is pumped out of one well that the Village owns and operates. A plat map of the location of the well in relation to the near by streets is included in Appendix C. A flow diagram of the Village system has been developed and is included in Appendix B.

The system has no access to surface water sources. Village has had to contract and purchase water from an outside source. This is only on an as-needed bases when the well is down for service or if there is a well pump failure. There are no interconnections with adjacent water systems.

2.2 Water System Description

Village currently services approximately 112 people and currently has 57 service connections. This system is predominately a residential system with only a small industrial/commercial development of 10 -12 connections and only services the customers within the defined service area of the Village. The system is not capable of providing nor having fire protection capabilities. Although the system does have two fire hydrants in the commercial area, they are not capable of fire flows.

The system has a fairly consistent average demand of 7-8,000 gallons per day. There are no heavily landscaped areas and the yards are mostly limited landscaped with low water use and well established native plants. The average customer uses approximately 4,000 gallons per month.

Estimated production capacities of the existing well (Well ID # 55-806159) is estimated to be 35 gallons per minute. The water level was last recorded in March of 2007 at 1570 feet with the well being 1600 feet deep.

The distribution system has one 98,000 gallon Water Storage Tank. The storage tank is located next to the well site at the highest elevation of the water system. The well pumps water directly into the storage tank. Once the high level sensor is reached during the filling of the tank the well shuts off. The tank is interconnected by a 2" galvanized pipe. Water is drawn out of the tank by a common discharge header. The water is sent to two 10 hp booster pumps that pump the water into the 2500 gallon hydro-tank via a 2" galvanized pipe. The hydro tank is then connected to the distribution system.

The service area is an approximately one quarter of a square mile in area. The Village system is pressurized by the hydro-tank therefore if there is a loss of power to the booster station it will result in the upper service area experiencing low water pressures.

West Village Water System
PWS-#0403021

2.3 Water Quality

In review of the Drinking Water Compliance Report from ADEQ the only problems have mainly been reporting and sampling problems. There are supposed to have been 5 Lead and Copper Samples pulled each year between the dates of June 1 and September 30. Unfortunately only three samples were pulled for 2008 and were they taken in December, outside of the required time period.

The analysis also reports a result for Arsenic to be .0094 MG/L from a sample pulled 03-12-2007. Just below the MCL of .0100 MG/L.

3.0 EVALUATION SUMMARY AND RECOMMENDATIONS

3.1 Assessment Summary

The West Village Water System has been able to provide a safe and fairly reliable supply of water to its customers. The system pumps groundwater, stores it and distributes it mostly for domestic use, and very little commercial/industrial uses. At this time, the system has sufficient water production capacities from its well to meet peak demands, with the exceptions of fire protection and periods when service is interrupted by frequent water main breaks and when the well pump has been removed for repairs or during power outages. During those periods the system contract with a local commercial water hauler to supplement their supply until it is back in service. The water provided to the water system meets all drinking water standards. The well, water storage, booster station and distribution network appear to be adequate, without fire protection being provided.

The Water System is managed by Allen Ginsberg and operated by the contracted operator, Jon Zimmermann. He is a certified operator of the proper level and he checks the system regularly, he also serves as its Operator of Record.

3.2 Recommended Improvements

The following improvements are recommended for implementation after further consideration

- Conduct a water system Master Plan study:
 - The Master Plan should identify current and future (over the next 20 years) infrastructure needs, water demands, and estimate safe yield and storage required to reliably meet these demands. The Master Plan will also address water quality issues, and confirm the ability of the water system to meet current and future drinking water regulations.
- Implement system improvements:
 - Schedule a cleaning and inspection of the interior and structural condition of the water storage tank. The storage tank looks to be set on the ground and is level but does not have any sort of foundation or gravel ring. It is of riveted steel construction that indicates its age of construction being very old technology, the last tanks of that type of construction were used by the petroleum industry and railroads in the late 1950's early 1960's.
 - Evaluate the distribution mains for size and condition, the age of the system mains are reported to be approximately 50 years old, and the water lines were made up of mostly 2" galvanized steel. The service connections and exposed piping are consistent with the materials used and reported condition.

- The wellhead surface casing and surrounding slab need replacement to insure the proper sealing of the well casing. The well has been reported to be 1600 feet deep with the last static water level reported to be 1520 feet. The next time the pump is removed, the well should be inspected with a downhole camera to evaluate the condition of the casing and verification of its depth. ADWR records have no data available for this well and its construction.
- The complete electrical system needs to be up-dated to meet current electrical codes for operator safety.
- The booster pumps should be securely mounted to the floor and elevated on concrete pads at least 6”high.
- Install a threadless sample tap on the well head piping.
- The water meters need to have access to properly read and maintain the water meters. Most of the water meters are four boxes deep and very hard to read if reading is possible at all. There are a lot of meters that are located in the lowest elevation in the yards or below existing ground level and for the most part they are located on property lines. Some remain full of water and others have very scratched lenses making the reading difficult if not impossible. Several meters need to be continually estimated due to the same reasons.
- A copy of the City of Flagstaff’s Standards for meter setter and service lines is included in the appendix for reference.
- An MSDS for the Sodium Hypochlorite used for disinfection has also been included for copy to go to the booster station site and for system files.
- Security/emergency preparedness:
 - Install/update “informational” signs at the facility indicating system name, system id, and emergency contact phone numbers.

APPENDIX A

**ARIZONA SYSTEM EVALUATION QUESTIONNAIRE
FOR REGULATED PUBLIC WATER SYSTEMS**

West Village Water System
PWS-#0403021

**ARIZONA SYSTEM
EVALUATION FOR
REGULATED PUBLIC
WATER SYSTEM**

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

DATE: 5/22/09

System PWSID Number	03021	
System Name	West Village	
Facility Classification	D	T
Facility Grade	1	
Service Connections	60 (54)	
Population Served	112	

Contact Person: Wayne Thompson/Elaine

Phone Number: 928-779-3444

Fax Number: 928-774-1021

Email: ElaineinFlag@aol.com

Mailing Address of Water System

P.O. Box 756
Flagstaff, Arizona 86002

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

PART I. WATER SYSTEM INFORMATION

GENERAL			
What is your primary source of water?	<input checked="" type="radio"/> G	S	GWUDI
PURCHASED WATER			
Do you purchase water? <i>yes, water hauler</i>	<input checked="" type="radio"/> YES	NO	N/A
Do you have a contract to purchase water? <i>as needed</i>	YES	<input checked="" type="radio"/> NO	N/A
Do you keep records on the amount of water that you purchase? <i>upon well failure, \$20,000</i>	<input checked="" type="radio"/> YES	NO	N/A
Can you purchase an adequate supply during periods of drought?	<input checked="" type="radio"/> YES	NO	N/A
Do you have an alternative source of supply?	<input checked="" type="radio"/> YES	NO	N/A
Do you know the long-term plans of your supplier?	<input checked="" type="radio"/> YES	NO	N/A
WATER QUANTITY			
Are water rights sufficient and secured?	<input checked="" type="radio"/> YES	NO	N/A
Is the quantity of water available from your water source adequate for the next five years?	YES	<input checked="" type="radio"/> NO	N/A
Do you know the safe, reliable yield of your source(s)? <small>Flagstaff wells</small>	<input checked="" type="radio"/> YES	NO	N/A
Do you know how much water you pump on average per day?	<input checked="" type="radio"/> YES	NO	N/A
Enter the amount: 7-8,000 per day			
Do you know your source capacity (including purchased water) in gallons per day (gpd)?	YES	<input checked="" type="radio"/> NO	N/A
Enter the amount: 2008-256,065 gal 21,338 gpm 2007 - 245644 gpy			
Is your source capacity greater than your peak daily demand?	<input checked="" type="radio"/> YES	NO	N/A
Were you able to provide adequate volumes of water during any recent droughts?	<input checked="" type="radio"/> YES	NO	N/A
Do you have a water conservation plan?	<input checked="" type="radio"/> YES	NO	N/A
Describe: Plan is located in manager's office			
Does your system calculate and control water loss?	YES	<input checked="" type="radio"/> NO	N/A
Do you have a 10-year growth projection of your service area, customer base, and water demands which is consistent with local land use plans?	YES	<input checked="" type="radio"/> NO	N/A

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

WATER QUALITY			
Has your system had a violation of the National Primary Drinking Water Regulations in the last year?	<input checked="" type="radio"/> YES	NO	N/A
If yes, do you have a plan to ensure compliance?	<input checked="" type="radio"/> YES	NO	N/A
Describe: Lead/copper testing			
WATERSHED AND POTENTIAL CONTAMINATION			
Do you have a source water protection plan? <small>Provided now</small>	<input checked="" type="radio"/> YES	NO	N/A
Do you have a SWAP report showing your sources of supply and all existing and potential sources of contamination?	<input checked="" type="radio"/> YES	NO	N/A
Are the areas that affect your source water free from:			
Discharges from human wastewater treatment facilities?	<input checked="" type="radio"/> YES	NO	N/A
Agricultural feedlot waste treatment facilities?	<input checked="" type="radio"/> YES	NO	N/A
Golf courses?	<input checked="" type="radio"/> YES	NO	N/A
Corporate or institutional campuses?	<input checked="" type="radio"/> YES	NO	N/A
Intensively landscaped residential developments?	<input checked="" type="radio"/> YES	NO	N/A
Industrial, commercial, or agricultural chemicals?	<input checked="" type="radio"/> YES	NO	N/A
What are the likely contaminants that may affect your system?			

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

PART II. TECHNICAL CAPACITY

OPERATIONS AND MAINTENANCE			
What was the date of your system's last sanitary survey? 02/28/07			
Have you corrected the deficiencies, if any, noted on your last sanitary survey?	YES	NO	<input checked="" type="radio"/> N/A
Does the system have an operations and maintenance plan to address site-specific component replacement or repair protocols based on manufacturer's recommendations or engineer's specifications?	YES	<input checked="" type="radio"/> NO	LAST UPDATE:
Does the system have an emergency operation plan that has task-specific steps to perform in case of an emergency?	<input checked="" type="radio"/> YES	NO	LAST UPDATE: 4/9/08
Does the documentation include a site-specific vulnerability assessment ?	YES	<input checked="" type="radio"/> NO	LAST UPDATE:
Does your system have a certified operator?	<input checked="" type="radio"/> YES	NO	Name(s) Jon Zimmerman 0P002419
Is the operator certified with the correct classification?	<input checked="" type="radio"/> YES	NO	Classification(s) WD, C, D, T, W
Is the operator certified with the correct grade?	<input checked="" type="radio"/> YES	NO	Grade(s) 1C, 1D, 1T, 1W
Does your operator attend continuing education training sessions?	<input checked="" type="radio"/> YES	NO	N/A
Do you know who to contact for information on regulatory requirements and drinking water standards?	<input checked="" type="radio"/> YES	NO	N/A
Are you aware of, and do you understand, the provisions for obtaining waivers from monitoring requirements?	YES	<input checked="" type="radio"/> NO	N/A
Does your water system obtain any regular or occasional technical assistance from outside sources, such as the State, your engineer, other utilities, or organizations dedicated to providing technical assistance?	<input checked="" type="radio"/> YES	NO	N/A
Are you aware of all the technical and financial assistance programs that are available to you?	<input checked="" type="radio"/> YES	NO	N/A

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

TREATMENT, STORAGE, AND DISTRIBUTION			
Do you treat your water?	<input checked="" type="radio"/> YES	NO	N/A
For what contaminants do you treat? none			
What type of technology is used for treatment? Chlorination only			
Do you regularly inspect and maintain your treatment facilities such as chemical feed pumps, filters, chlorination equipment, meters, testing equipment, etc.	<input checked="" type="radio"/> YES	NO	N/A
Are your treatment facilities manned whenever they are operating? 2-3 times per week	<input checked="" type="radio"/> YES	NO	N/A
If no, are the plants automated with appropriate alarms and shut-off valves?	YES	<input checked="" type="radio"/> NO	N/A
Do you keep records of your treatment plant operations including flows, chemicals added, dose rates, time of operation, and water quality performance tests? <small>When system is checked</small>	<input checked="" type="radio"/> YES	NO	N/A
Do you have a schedule for maintenance, repair, and rehabilitation of all your facilities? <small>Repair as needed</small>	YES	<input checked="" type="radio"/> NO	N/A
Are the storage tanks inspected at least every 3 years by a qualified contractor for evidence of corrosion or pitting or structural weakness?	YES	<input checked="" type="radio"/> NO	N/A
Have you assessed whether your storage tank meets all current requirements?	YES	<input checked="" type="radio"/> NO	N/A
Do you have a routine leak detection and repair program?	YES	<input checked="" type="radio"/> NO	N/A
Does your system have accurate maps of the distribution system?	YES	<input checked="" type="radio"/> NO	N/A
Is your service area clearly defined?	<input checked="" type="radio"/> YES	NO	N/A
Are all customers metered?	<input checked="" type="radio"/> YES	NO	N/A
Can you maintain adequate pressure in the distribution system under all conditions of flow?	<input checked="" type="radio"/> YES	NO	N/A

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

CHLORINATION FACILITIES			
Does the facility chlorinate?	<input checked="" type="radio"/> YES	NO	N/A
If yes, indicate which type.	<input checked="" type="radio"/> NaOCl - liquid	<input type="radio"/> CaOCl - solid	<input type="radio"/> Cl ₂ gas
Does the facility have a chlorine injection nozzle?	<input checked="" type="radio"/> YES	NO	N/A
Is there a standby chlorinator?	YES	<input checked="" type="radio"/> NO	N/A
Is the required chlorinator installed?	<input checked="" type="radio"/> YES	NO	N/A
Is there adequate chlorine residual? ^{0.2} ppm	<input checked="" type="radio"/> YES	NO	N/A
Is the facility chlorinating as required?	<input checked="" type="radio"/> YES	NO	N/A
Is the chlorine feed tank empty?	YES	<input checked="" type="radio"/> NO	N/A
Is the equipment properly installed?	<input checked="" type="radio"/> YES	NO	N/A
Is the equipment operating properly?	<input checked="" type="radio"/> YES	NO	N/A
Is the dosing cylinder empty?	YES	<input checked="" type="radio"/> NO	N/A
Is the line plugged?	YES	<input checked="" type="radio"/> NO	N/A
Is the room properly vented?	<input checked="" type="radio"/> YES	NO	N/A
Is the chlorinator subject to freezing?	YES	<input checked="" type="radio"/> NO	N/A
Is there an inspection window?	YES	NO	<input checked="" type="radio"/> N/A
Is ammonia available for leak detection?	YES	NO	<input checked="" type="radio"/> N/A
Is SCBA equipment mounted outside of the Cl room?	YES	NO	<input checked="" type="radio"/> N/A
Is the room fan switch on the outside?	YES	NO	<input checked="" type="radio"/> N/A
Is there a 'free chlorine residual' daily log?	<input checked="" type="radio"/> YES	NO	N/A
Is a chlorine test kit available?	<input checked="" type="radio"/> YES	NO	N/A
Does the contact time exceed 30 minutes?	<input checked="" type="radio"/> YES	NO	N/A
Is the chlorine compound approved for use?	<input checked="" type="radio"/> YES	NO	N/A

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

STORAGE TANKS (or reservoir)			
Does the facility have a storage tank? 0.098 million gallons	<input checked="" type="radio"/> YES	NO	N/A
Is the storage volume sufficient?	<input checked="" type="radio"/> YES	NO	N/A
Does the storage tank need repair?	<input checked="" type="radio"/> YES	NO	N/A
Does the storage tank leak?	YES	<input checked="" type="radio"/> NO	N/A
Has the tank deteriorated beyond repair?	YES	NO	<input checked="" type="radio"/> N/A
Is an overflow pipe installed?	<input checked="" type="radio"/> YES	NO	N/A
Is the overflow pipe properly screened?	<input checked="" type="radio"/> YES	NO	N/A
Is there a splash block below the overflow pipe?	YES	NO	<input checked="" type="radio"/> N/A
Is the hatched sealed?	<input checked="" type="radio"/> YES	NO	N/A
Is the hatch curb inadequate or missing?	YES	<input checked="" type="radio"/> NO	N/A
Is the hatch secure?	<input checked="" type="radio"/> YES	NO	N/A
Is the tank vent adequately installed?	<input checked="" type="radio"/> YES	NO	N/A
Is the vent screened?	<input checked="" type="radio"/> YES	NO	N/A
Does the tank have a drain valve?	<input checked="" type="radio"/> YES	NO	N/A
Is there a visual water level indicator?	<input checked="" type="radio"/> YES	NO	N/A
Is the water level target operative?	<input checked="" type="radio"/> YES	NO	N/A
Are there openings around the target cable?	<input checked="" type="radio"/> YES	NO	N/A
Is there a tank bedding ring?	YES	<input checked="" type="radio"/> NO	N/A
Is the tank bedding damaged?	YES	NO	<input checked="" type="radio"/> N/A
Are there any holes in the roof?	YES	<input checked="" type="radio"/> NO	N/A

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

PRESSURE TANK			
Is there a pressure gauge?	<input checked="" type="radio"/> YES	NO	N/A
Is there a bottom drain valve?	<input checked="" type="radio"/> YES	NO	N/A
Is there a water level sight glass?	<input checked="" type="radio"/> YES	NO	N/A
Do the booster glands leak?	<input checked="" type="radio"/> YES	NO	N/A
Is there a blowoff valve for excess air?	<input checked="" type="radio"/> YES	NO	N/A
Is there excess air?	<input checked="" type="radio"/> YES	NO	N/A
Is there a means for adding air?	<input checked="" type="radio"/> YES	NO	N/A
Is there a safety relief valve?	<input checked="" type="radio"/> YES	NO	N/A
Does the system have more than one booster pump? 2 - 10HP	<input checked="" type="radio"/> YES	NO	N/A
If so, are the pumps set to operate lead / lag?	YES	NO	<input checked="" type="radio"/> N/A
Are replacement pumps on hand or easily obtainable?	<input checked="" type="radio"/> YES	NO	N/A
How often do the pumps cycle on and off during peak demand?			
How much does the system pressure drop during peak demand?			
DISTRIBUTION SYSTEM			
Are the mains at least 3-feet deep? 3' plus	<input checked="" type="radio"/> YES	NO	N/A
Do cross-connections exist?	YES	<input checked="" type="radio"/> NO	N/A
Are there leaks in the distribution system?	YES	<input checked="" type="radio"/> NO	N/A
Is there adequate system pressure?	<input checked="" type="radio"/> YES	NO	N/A
Are the facilities subject to freezing?	<input checked="" type="radio"/> YES	NO	N/A
Is the pipe material approved?	<input checked="" type="radio"/> YES	NO	N/A
Is the water main too close to the sewer main?	YES	<input checked="" type="radio"/> NO	N/A
Are there enough valves to isolate distribution lines to minimize the impact of water outages?	YES	<input checked="" type="radio"/> NO	N/A
Are system mainlines typically looped?	YES	<input checked="" type="radio"/> NO	N/A
If no, are there plans to do so and when?	YES	<input checked="" type="radio"/> NO	When:
Is the system designed to provide fire flow? two hydrants	YES	<input checked="" type="radio"/> NO	N/A
If yes, are there sufficient fire hydrants? How many? county	YES	<input checked="" type="radio"/> NO	Number:
Are fire hydrants flushed at least once per year? unk	YES	NO	N/A
Are flush valves or fire hydrants located at the end of branched lines?	YES	<input checked="" type="radio"/> NO	N/A
Are system mainlines properly sized? Fire flow restrictions	YES	<input checked="" type="radio"/> NO	Size: 6" & 2"

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

WELL			
Is the water supply near or in a flood zone?	YES	<input checked="" type="radio"/> NO	N/A
Does the site need general clean-up?	YES	<input checked="" type="radio"/> NO	N/A
Is the site properly fenced?	YES	<input checked="" type="radio"/> NO	N/A
Is the well building damaged?	YES	<input checked="" type="radio"/> NO	N/A
Is the well building secure?	<input checked="" type="radio"/> YES	NO	N/A
Is the security fence damaged?	YES	NO	<input checked="" type="radio"/> N/A
Is the security fence locked?	YES	NO	<input checked="" type="radio"/> N/A
Is the state well number posted?	<input checked="" type="radio"/> YES	NO	N/A
Is the well site properly graded?	<input checked="" type="radio"/> YES	NO	N/A
Is the slab adequate?	<input checked="" type="radio"/> YES	NO	N/A
Is the well casing annulus sealed?	<input checked="" type="radio"/> YES	NO	N/A
Is the well seal / repair adequate?	<input checked="" type="radio"/> YES	NO	N/A
Are there any direct openings into the well?	YES	<input checked="" type="radio"/> NO	N/A
Is the casing at least 12-inches above the slab?	<input checked="" type="radio"/> YES	NO	N/A
Is the lubricant proper for a lower turbine pump bearing?	YES	NO	<input checked="" type="radio"/> N/A
Is a well vent installed?	<input checked="" type="radio"/> YES	NO	N/A
Is the well vent installed properly?	<input checked="" type="radio"/> YES	NO	N/A
Is the well vent properly screened?	<input checked="" type="radio"/> YES	NO	N/A
Is the vacuum relief valve installed? (turbine pumps only)	YES	NO	<input checked="" type="radio"/> N/A
Is the vacuum relief valve screened? (turbine pumps only)	YES	NO	<input checked="" type="radio"/> N/A
Is the vacuum relief valve leaking? (turbine pumps only)	YES	NO	<input checked="" type="radio"/> N/A
Is the required check valve on the pipe properly installed?	<input checked="" type="radio"/> YES	NO	N/A
Is the check valve defective?	YES	<input checked="" type="radio"/> NO	N/A
Is the sampling tap properly installed?	<input checked="" type="radio"/> YES	NO	N/A
Is the well less than 50 feet from a sewer?	YES	<input checked="" type="radio"/> NO	N/A
Is the well less than 100 feet from a septic tank?	YES	<input checked="" type="radio"/> NO	N/A
Is the well less than 100 feet from an APP discharge?	YES	<input checked="" type="radio"/> NO	N/A
Is the well less than 100 feet from a UST?	YES	<input checked="" type="radio"/> NO	N/A
Is the well less than 100 feet from a hazardous waste facility?	YES	<input checked="" type="radio"/> NO	N/A
Has a Source Water Assessment Plan been completed?	<input checked="" type="radio"/> YES	NO	Date: 2002
Has a wellhead protection plan been initiated or completed?	YES	<input checked="" type="radio"/> NO	Start: End:

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

SPRINGS AND SURFACE WATER SOURCES			
Does the spring box or surface water source provide adequate flow during all seasons?	YES	NO	(N/A)
If not, is there an alternate supply available?	YES	NO	(N/A)
Is the spring box properly constructed?	YES	NO	(N/A)
Does the spring box need to be repaired or replaced?	YES	NO	(N/A)
Is the spring box secure?	YES	NO	(N/A)
Are the reconstruction plans for the spring box approved?	YES	NO	(N/A)
Is there an overflow pipe?	YES	NO	(N/A)
Is there an overflow pipe screen?	YES	NO	(N/A)
Is the spring or treatment facility in a flood plain zone?	YES	NO	(N/A)
Is there a water supply enclosure?	YES	NO	(N/A)
Is the required filtration / disinfection provided?	YES	NO	(N/A)
Is the surface water treatment sufficient?	YES	NO	(N/A)
Are there contaminants near the surface water source?	YES	NO	(N/A)
TURBIDITY			
Does the system have continuous turbidity sampling?	YES	NO	(N/A)
Is the required turbidity sampling being performed?	YES	NO	(N/A)
Influent turbidity range:			
Effluent turbidity range:			
Is the influent turbidity subject to rapid fluctuations?	YES	NO	(N/A)
Is there a 4-hour sample?	YES	NO	(N/A)
Is there a turbidity log book?	YES	NO	(N/A)
Are turbidity standards kept on-site?	YES	NO	(N/A)
If no, please explain:			
Are the turbidity standards less than 3 years old?	YES	NO	(N/A)
COAGULATION			
Is there coagulant feed equipment?	YES	NO	(N/A)
Is the coagulant feed equipment operable?	YES	NO	(N/A)
Is there polymer feed equipment?	YES	NO	(N/A)
Is the polymer feed equipment operable?	YES	NO	(N/A)
Are the mechanical mixers operable?	YES	NO	(N/A)
Is there adequate coagulant mixing time?	YES	NO	(N/A)
Is the chemical storage and handling adequate?	YES	NO	(N/A)
Is the chemical application safe?	YES	NO	(N/A)

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

FLOCCULATION			
Are the mechanical mixers adequate?	YES	NO	(N/A)
Are the mechanical mixers operable?	YES	NO	(N/A)
Is the floc visible?	YES	NO	(N/A)
Is a daily jar test performed?	YES	NO	(N/A)
SEDIMENTATION			
Is the sludge removal equipment operable?	YES	NO	(N/A)
Are the weirs short circuiting or not level?	YES	NO	(N/A)
Is there excess sludge on the bottom of the clarifier?	YES	NO	(N/A)
FILTRATION			
Maximum filtration rate (gpsfpm):			
Filter on-off cycling/day:			
Is filtration by mixed media?	YES	NO	(N/A)
Depth of filter media (inches):			
Time since visual check of media (months):			
Time since media was exchanged (months):			
Is media NSF approved?	YES	NO	(N/A)
Is the filter media depth sufficient?	YES	NO	(N/A)
Is the lagoon decant properly handled?	YES	NO	(N/A)
Is there excessive vegetation at lagoon water line?	YES	NO	(N/A)
Is the lagoon berm eroding or inadequate?	YES	NO	(N/A)
Is there less than 3 feet of freeboard on the lagoon?	YES	NO	(N/A)
FILTER BACKWASH			
Is there capability for filter backwash?	YES	NO	(N/A)
What is the backwash flow rate (gpm or gpsfpm):			
Is the backwash water supply adequate (>200 gal/sf)?	YES	NO	(N/A)
Is the filter backwashed with potable water?	YES	NO	(N/A)
Is there a direct cross-connection between potable and backwash water?	YES	NO	(N/A)
Is the backwash discharged with the proper NPDES permit?	YES	NO	(N/A)
Filter to waste after backwash?	YES	NO	(N/A)
Filter to waste after startup?	YES	NO	(N/A)
Is the backwash based on run time?	YES	NO	(N/A)
Is the backwash based on pressure differential?	YES	NO	(N/A)
Is the backwash based on reaching 0.5 NTU?	YES	NO	(N/A)

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

PART III. MANAGERIAL CAPACITY

MANAGEMENT			
Do you have written job descriptions for all positions so that employees know their responsibilities?	YES	NO	<input type="radio"/> N/A
Do you have written personnel policies?	YES	NO	<input type="radio"/> N/A
Does your system maintain a staffing and organizational chart that indicates reporting relationships of system personnel?	YES	NO	<input type="radio"/> N/A
Does your system periodically review its safety programs?	YES	NO	<input type="radio"/> N/A
Is the individual in charge of the system clearly defined?	YES	NO	<input type="radio"/> N/A
Does the individual in charge of system operation have other responsibilities unrelated to the water system?	YES	NO	<input type="radio"/> N/A
If yes, how much time is dedicated to these other responsibilities?			
Systems that contract for system operation or management. Do you have a valid (signed) contract that specifies the contractor's duties and responsibilities related to your system?	YES	<input type="radio"/> NO	N/A
Are sufficient records kept?	<input checked="" type="radio"/> YES	NO	N/A
Is routine maintenance performed?	<input checked="" type="radio"/> YES	NO	N/A
Is the system frequently out-of-operation?	YES	<input type="radio"/> NO	N/A
Is the water supply frequently depleted?	YES	<input type="radio"/> NO	N/A
Are user complaints being received? meter reads/estimating	YES	<input type="radio"/> NO	N/A
Did the system begin construction without an Approval to Construct (ATC)?	YES	<input type="radio"/> NO	N/A
Is the system operating without an Approval of Construction (AOC)?	YES	<input type="radio"/> NO	N/A
Does the system have the required 'as-built' drawings?	YES	<input type="radio"/> NO	N/A
Does construction conform to the approved plans?	YES	NO	<input type="radio"/> N/A
Is the O & M manual available?	YES	<input type="radio"/> NO	N/A
Are there any contaminants near the water supply source?	YES	<input type="radio"/> NO	N/A
Does the system have a microbiological site sampling plan?	YES	<input type="radio"/> NO	N/A
Is the BPA program implemented?	YES	<input type="radio"/> NO	N/A
Is the BPA program adequate?	YES	<input type="radio"/> NO	N/A
Is the emergency operations plan available?	<input checked="" type="radio"/> YES	NO	N/A
Is the emergency operations plan adequate?	<input checked="" type="radio"/> YES	NO	N/A

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

OWNERSHIP AND GOVERNANCE			
Please indicate your governance structure (type of ownership i.e., elected board, council, appointed, sole ownership, etc.)			
Is the system a 'for profit' or a 'not-for-profit' entity? <small>operating at a loss</small>	<input checked="" type="radio"/> for profit	<input type="radio"/> not-for-profit	
Under what statute was this system formed?			
Does the governing body meet on a regular basis?	<input type="radio"/> YES	<input type="radio"/> NO	<input checked="" type="radio"/> N/A
Is an annual budget prepared and reviewed at board or council meetings?	<input type="radio"/> YES	<input type="radio"/> NO	<input checked="" type="radio"/> N/A
If applicable, are by-laws, resolutions, and/or ordinances up-to-date?	<input type="radio"/> YES	<input type="radio"/> NO	<input checked="" type="radio"/> N/A
Do you have a copy of the State documents (charter, Certificate of Public Necessity, license, or permit) that allows you to operate as a public water system?	<input checked="" type="radio"/> YES	<input type="radio"/> NO	N/A
Are there any special conditions or limitations on your permit to operate as a public water system?	<input type="radio"/> YES	<input checked="" type="radio"/> NO	N/A
If yes, please describe.			
Systems that use, but do not own, land or facilities that are essential to water system operation: Is there a valid long-term contract (i.e., lease) between your water system and the owner of the land or facilities essential to the operation of your system?	<input type="radio"/> YES	<input type="radio"/> NO	<input checked="" type="radio"/> N/A
Systems that have a single owner: Does the system have a contingency plan for continuing operation if the owner becomes incapable of carrying out his/her responsibilities?	<input checked="" type="radio"/> YES	<input type="radio"/> NO	N/A
Do you have a plan that describes how your system will respond to emergencies that affect water quality?	<input checked="" type="radio"/> YES	<input type="radio"/> NO	N/A
Do you have a list of phone numbers of those to call in case of an emergency (such as plumbers, engineers, health officials, etc.)?	<input checked="" type="radio"/> YES	<input type="radio"/> NO	N/A
Do you have any emergency contract agreements under which your system operates (e.g., emergency water interconnections and alternative sources)?	<input checked="" type="radio"/> YES	<input type="radio"/> NO	N/A

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

TRAINING AND EXPERIENCE			
Do you know where to obtain ongoing training for system managers?	<input checked="" type="radio"/> YES	NO	N/A
Does your system manager have experience or training in utility management?	<input checked="" type="radio"/> YES	NO	N/A
Does your system manager have experience or training in drinking water regulations?	<input checked="" type="radio"/> YES	NO	N/A
Does your system manager have experience or training in resource management (I.e., personnel, budget, facilities)?	<input checked="" type="radio"/> YES	NO	N/A
CUSTOMER RELATIONS			
Do you prepare an annual consumer confidence report for your customers on the status of your water system and water quality?	<input checked="" type="radio"/> YES	NO	N/A
Does your system strive for quality service and to be responsive to customer needs?	<input checked="" type="radio"/> YES	NO	N/A
Do you give notice to your customers on proposed policy, rates, and other significant changes?	<input checked="" type="radio"/> YES	NO	N/A
Do you provide notice to customers of planned water outages or other actions which could disrupt their supply?	<input checked="" type="radio"/> YES	NO	N/A
Did you submit your consumer confidence report to ALL you customers? By the due date?	<input checked="" type="radio"/> YES	NO	N/A
RULES OR POLICIES			
Have you established rules or policies that define the conditions for receiving water service?	<input checked="" type="radio"/> YES	NO	N/A
Have you established rules or policies defining customer responsibilities?	<input checked="" type="radio"/> YES	NO	N/A
Have you established rules or policies defining the management of the system (setting rates, payments, meters, cross-connection control)?	<input checked="" type="radio"/> YES	NO	N/A

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

PART IV. FINANCIAL CAPACITY

REVENUE SUFFICIENCY AND CREDIT WORTHINESS			
Do your system's revenues cover expenses?	YES	<input checked="" type="radio"/> NO	N/A
Does your rate structure produce income to cover:			
Current expenses	YES	<input checked="" type="radio"/> NO	N/A
Replacement Costs	YES	<input checked="" type="radio"/> NO	N/A
Reserves	YES	<input checked="" type="radio"/> NO	N/A
Does your system have the ability to repay existing debt?	YES	<input checked="" type="radio"/> NO	N/A
Does your system have specific rate and billing procedures for customers?	<input checked="" type="radio"/> YES	NO	N/A
Does your system prepare an annual budget?	YES	<input checked="" type="radio"/> NO	N/A
For this fiscal year, are you on target with budgeted income and expenses?	YES	NO	<input checked="" type="radio"/> N/A
Have you assessed the remaining life of your facility and developed a schedule for its replacement?	YES	NO	<input checked="" type="radio"/> N/A
Does your system prepare a capital budget, or have a reserve account?	YES	<input checked="" type="radio"/> NO	N/A
Does your system have an emergency budget?	YES	<input checked="" type="radio"/> NO	N/A
FISCAL CONTROLS			
Does your system have a long-range financial plan?	<input checked="" type="radio"/> YES	NO	N/A
Do you review your rate structure annually?	YES	<input checked="" type="radio"/> NO	N/A
Do you use any of the following fiscal controls:			
Monthly financial statements	YES	<input checked="" type="radio"/> NO	N/A
Monthly review of financial statements by board, council, or owner	YES	<input checked="" type="radio"/> NO	N/A
Annual audit	YES	<input checked="" type="radio"/> NO	N/A
Written financial policies	<input checked="" type="radio"/> YES	NO	N/A
Rate structure reviewed annually	YES	<input checked="" type="radio"/> NO	N/A
Other:	YES	NO	<input checked="" type="radio"/> N/A
Are all contractual obligations being met?	<input checked="" type="radio"/> YES	NO	N/A

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

PART V. WATER SYSTEM SECURITY

STRUCTURES			
Are all structures always locked and the alarms set? <small>No alarms</small>	YES	NO	<input type="radio"/> N/A
Are "Authorized Personnel Only" signs posted at entrance to ALL facilities?	YES	<input type="radio"/> NO	N/A
Are important telephone numbers posted on outside of each building and/or on inside of fence, readily visible for emergency use by the public?	YES	<input type="radio"/> NO	N/A
Is each active well and /or surface intake area inspected at least once per day on an irregular schedule?	YES	<input type="radio"/> NO	N/A
Is watershed adequately patrolled?	YES	NO	<input type="radio"/> N/A
Are all facilities regularly and thoroughly inspected, including those portions not readily visible?	<input type="radio"/> YES	NO	N/A
Where possible, is every access to water (outside clarifier, clearwell, reservoir, manhole, etc.) locked and/or fenced?	<input type="radio"/> YES	NO	N/A
Is protection provided (i.e., with concrete barriers) to prevent a speeding vehicle (including along facility driveway) from hitting plant or other facilities?	YES	<input type="radio"/> NO	N/A
Are all outside stored chemicals protected from vandalism and accidents?	YES	NO	<input type="radio"/> N/A
Are all existing emergency interconnections to other water supply sources functional and exercised on a regular basis?	YES	NO	<input type="radio"/> N/A
Are all treatment plants, storage tanks, pump stations, and other remotely-located facilities connected to a main control station via telemetering, SCADA, or equivalent?	YES	<input type="radio"/> NO	N/A
Is a backup or exterior connection for electrical power supply provided?	YES	NO	<input type="radio"/> N/A
Are fire/smoke alarms provided within all structures?	YES	<input type="radio"/> NO	N/A
Is a finished water chlorine residual low-level alarm provided?	YES	<input type="radio"/> NO	N/A
Is each employee issued a personal safety devise or PASS alarm? The devise is a wireless body button which can be activated in the event of an emergency. Connected to an alarm company, the dispatcher can speak to the employee and/or dispatch emergency personal. The alarm can also be set to activate if the employee stops moving for a set amount of time (i.e., in case of a fall or incident where the employee cannot activate the alarm).	YES	NO	<input type="radio"/> N/A
Are all buildings (including walls, roof, windows, etc.) constructed to commercial grade standards?	<input type="radio"/> YES	NO	N/A

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

KEYS			
Are distribution and number of keys known and controlled?	(YES)	NO	N/A
Are all keys labeled as "DO NOT DUPLICATE"?	YES	(NO)	N/A
Are local police departments provided with access keys?	YES	(NO)	N/A
Are keys always removed from all unattended equipment and locks?	(YES)	NO	N/A
FENCING			
Are entire perimeters of treatment plant property, storage tank, and wellhead adequately fenced and gate(s) kept locked?	YES	NO	(N/A)
Is all fencing at least 10' high, with inward-facing barbed wire on top, including on entrance gate(s)?	YES	NO	(N/A)
Is all fencing, including gate(s), secure to ground to prevent access under fence?	YES	NO	(N/A)
Is fence at least 6' higher than any structure or landscaping located directly outside of fence which may provide climbing access over fence?	YES	NO	(N/A)
Is fence at least 6' away from any structure or landscaping located directly outside of fence which may provide climbing access over fence?	YES	NO	(N/A)
LIGHTING			
Is entire perimeter of treatment plant illuminated with street-type lighting fixtures?	YES	NO	(N/A)
Is entire perimeter of treatment plant illuminated such that all shadows and dark areas are eliminated?	YES	NO	(N/A)
Is lighting mounted at an approximate second story level?	YES	NO	(N/A)
Are exterior light bulbs of commercial grade and break resistant?	YES	NO	(N/A)
Is lighting provided in parking lots, treatment bays, and other areas with limited staffing?	YES	NO	(N/A)

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

ENTRANCE DOORS			
Are all:			
Built of commercial grade with metal frame construction?	<input checked="" type="radio"/> YES	NO	N/A
Outside hinges hidden/protected from vandalism?	<input checked="" type="radio"/> YES	NO	N/A
Fitted tightly and free from mail slot and excessive air gaps, including at floor/threshold?	<input checked="" type="radio"/> YES	NO	N/A
Provided with commercial grade, one-sided lock?	YES	<input checked="" type="radio"/> NO	N/A
Provided with push ("panic") bar release on inside of door?	YES	<input checked="" type="radio"/> NO	N/A
Visitor entrances provided with a doorbell?	YES	<input checked="" type="radio"/> NO	N/A
Doors and locks in good condition?	<input checked="" type="radio"/> YES	NO	N/A
Electronically controlled so that each employee must use swipe card and/or enter a pin number To enter the plant? A computer should store the date, time, and employee who entered the plant. Pin numbers should be changed periodically.	YES	<input checked="" type="radio"/> NO	N/A
WINDOWS			
Are all the windows (including on doors) covered with metal security mesh?	YES	NO	<input checked="" type="radio"/> N/A
In case broken or opened, are all windows wired to loud audible alarm and to automatic telephone dialer or central station alarm?	YES	NO	<input checked="" type="radio"/> N/A
ELECTRONIC SURVEILLANCE			
Is entire perimeter of treatment plant equipped with infrared motion sensors in area between building and fence?	YES	NO	<input checked="" type="radio"/> N/A
Are infrared motion sensors electronically connected to automatic telephone dialer or central station alarm company?	YES	NO	<input checked="" type="radio"/> N/A
Is a video system provided to monitor property perimeter, which are either always on or activated by connection to infrared motion sensors?	YES	NO	<input checked="" type="radio"/> N/A
Is a video system provided to monitor all vital parts of the plant, including the main entrance and control room and recorded on a slow speed security VCR (tapes not reused/recycled for predetermined time)?	YES	NO	<input checked="" type="radio"/> N/A

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

FORMS			
Are emergency telephone numbers (including ambulance, police, FBI, spill response) current and prominently displayed at each telephone?	YES	NO	<input type="radio"/> N/A
Are MSDS and chemical response information present for all stored chemicals?	YES	<input checked="" type="radio"/> NO	N/A
WRITTEN PLANS			
Is a chain of command and emergency call list established, updated annually, and prominently displayed (should include 24/7 telephone numbers for system superintendent and chief municipal officer)?	<input checked="" type="radio"/> YES	NO	N/A
Does a written security program plan, which employees are frequently trained in and which is reevaluated periodically, exist?	YES	NO	<input checked="" type="radio"/> N/A
Are all employees, including Customer Service staff, trained on how to handle a threat? Written response procedures should be provided and practice drills should be exercised frequently.	YES	<input checked="" type="radio"/> NO	N/A
Are detection, response, and notification issues discussed with public health officials and a protocol established?	YES	<input checked="" type="radio"/> NO	N/A
Is your water system Emergency Operation Plan:			
Completed and prominently posted at water treatment plant?	YES	<input checked="" type="radio"/> NO	N/A
Complete with current information (name, address, telephone and fax number, and email address of ADEQ and local health department)?	<input checked="" type="radio"/> YES	NO	N/A
Is an emergency number posted at unmanned facilities in the event an employee or visitor arrives and finds the lock on the entrance gate broken?	<input checked="" type="radio"/> YES	NO	N/A
Is a County or State telephone number included for after hours contact?	<input checked="" type="radio"/> YES	NO	N/A

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

PROCEDURES			
Can operational procedure times be varied so as not to reveal working patterns?	(YES)	NO	N/A
Is a daily log used and initialed by last person who leaves the plant to verify that all (specific) doors and windows are locked, appliances are off, nightlights are on, and that entrance door is locked and alarm on? <small>Log on site dated & initialed when checked</small>	(YES)	NO	N/A
Is all mail opened off-site, at a non-water-related facility?	(YES)	NO	N/A
Are all employees fully aware of the importance of reporting to the ADEQ any unusual entry point or distribution system monitoring result (such as chlorine residual), unusual customer complaint on water quality, or illness among the utilities' customers that may be associated with the water? A log of all such events should be maintained.	(YES)	NO	N/A
Is access to computer networks and control systems controlled, and passwords changed frequently?	YES	NO	(N/A)
Is cross training provided between operators and guards?	YES	NO	(N/A)
Are MOU's with other agencies, particularly in regard to emergency response, reviewed and updated periodically?	YES	NO	(N/A)
Are security measures discussed with all contractors/subcontractors prior to them working on site?	(YES)	NO	N/A
LAW ENFORCEMENT AGENCIES			
Are police departments (daytime and nighttime coverage) familiar with system facilities; do they conduct routine patrols of facilities; and, are protocols established for reporting and responding to threats and other emergencies? Protocols should be updated annually.	YES	NO	(N/A)
Is staff aware to immediately report to the police and FBI any criminal threat, security breach, attack, suspicious behavior, etc. on the water utilities?	YES	NO	(N/A)
Are copies of operational procedures and system call list (noted in item 2. c.1) provided to police departments and emergency management personnel? <small>Local Fire Department</small>	YES	NO	(N/A)
Was a system facilities security survey conducted by the police department?	YES	NO	(N/A)

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

EMPLOYEES			
Does each employee display a personal sealed photo ID at all times?	YES	NO	<input checked="" type="radio"/> N/A
Are background security checks conducted on employees prior to hiring, and periodically thereafter?	YES	NO	<input checked="" type="radio"/> N/A
Upon employee termination, are passcodes changed, and keys, IDs and access cards returned? Final paychecks should be held until all items are turned in.	YES	NO	<input checked="" type="radio"/> N/A
NON-EMPLOYEE ACCESS			
Is a policy established for employees to limit/question/scrutinize any visitor, contractor, or stranger in facilities? In the event that an unscheduled visitor or stranger arrives after normal business hours the employee should use an intercom for initial contact. No one should be admitted unless they have the proper credentials and clearance.	YES	NO	<input checked="" type="radio"/> N/A
Are all chemical and other supply deliverers required to show proper identification and to sign-in? Are chemicals assayed prior to allowing on site?	YES	NO	<input checked="" type="radio"/> N/A
Do employees observe delivery personnel during deliveries and until after they leave the system property?	YES	NO	<input checked="" type="radio"/> N/A
NEIGHBORS			
Are important facility telephone numbers given to neighbors of all system facilities?	YES	NO	<input checked="" type="radio"/> N/A
Is an informal "Neighborhood Watch" program established around each system facility?	YES	NO	<input checked="" type="radio"/> N/A
Is character of all neighbors considered/evaluated?	YES	NO	<input checked="" type="radio"/> N/A
SUPPLEMENTAL INFORMATION			
Were all system facilities (treatment plants, wellheads, meter pits, pump stations, reservoirs, storage tanks, etc.) considered during completion of this form?	<input checked="" type="radio"/> YES	NO	N/A
Are separate forms being prepared for other system components?	<input checked="" type="radio"/> YES	NO	N/A

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

EVALUATION SUMMARY AND RECOMMENDATIONS

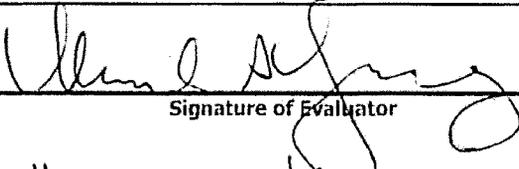
This is a very basic water distribution system consisting of 1 production well with a meter and check valve that feeds a 98,000 gallon water storage tank. Water from the storage tank is boosted by one of the two centrifugal pumps and a 2,500 gallon hydro-tank. The water is chlorinated by using sodium hypo-chlorite. The sodium hypo is NSF approved. There is a daily log on-site that is filled out each time the system is checked by the Operator of the system. This is usually 2-3 times per week. Water meters are very difficult to read. The meters are set three boxes deep making access for maintenance and reading very difficult.

Refer to summary for additional comments.

On a separate piece of paper, briefly describe the technical, managerial, and financial condition of this public water system. Include specific recommendations for improvement.

ARIZONA SYSTEM EVALUATION FOR REGULATED PUBLIC WATER SYSTEMS

SIGNATURE BLOCK



Signature of Evaluator

7/30/09

Date

MICHAEL S. YOUNG

Printed Name of Evaluator

Signature of Owner or Certified Operator

Date

Printed Name of Owner or Certified Operator

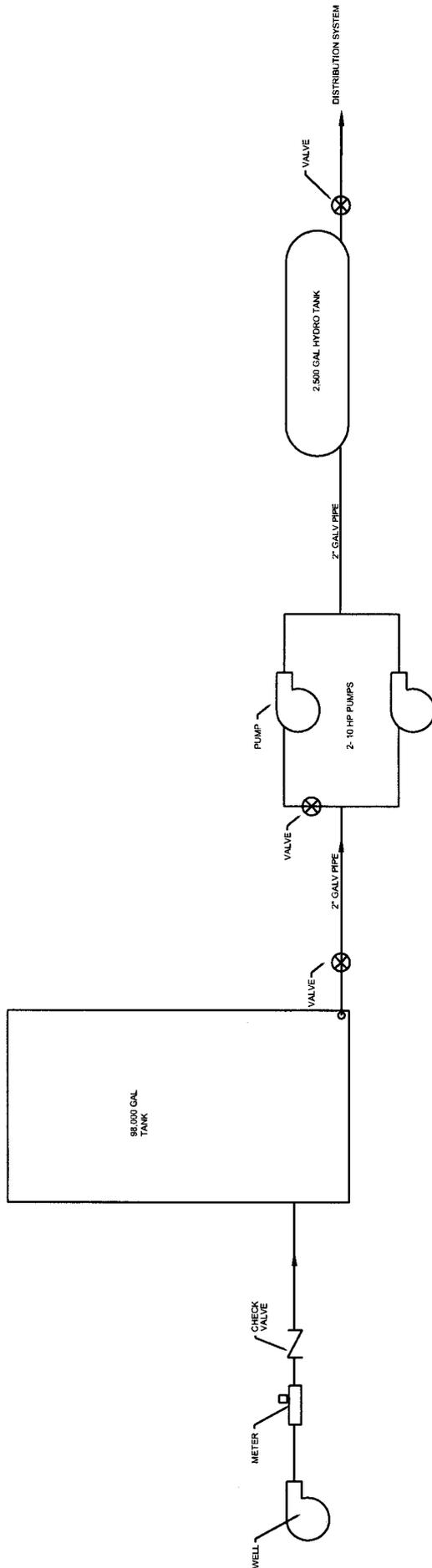


Allen T. Ginsberg
Acting Manager of West Village Water Co. 7/30/09

APPENDIX B

FLOW DIAGRAM, SODIUM HYPO MSDS, METER BOX SET
&
PHOTOGRAPHS OF FACILITIES

West Village Water System
PWS-#0403021




FANN Environmental, LLC.
 3111 CLEARWATER DRIVE, SUITE A
 PRESCOTT, ARIZONA 86305
 Office: (928) 778-4335
 Fax: (928) 778-5870

REV	ISSUE	DWG	DES	CHK	APP

DWN.	RDU	CHK.	RDU
DES.	RDU	APPR.	RDU
ISSUE DATE	JUNE 2009		PROJECT NO.
			12072

WEST VILLAGE WATER COMPANY
FLAGSTAFF, ARIZONA

SYSTEM SCHEMATIC

Material Safety Data Sheet

Revision Issued: 9/24/2008 Supercedes: 9/09/2007 First Issued: 6/17/87

Section I - Chemical Product And Company Identification

Product Name: Sodium Hypochlorite

CAS Number: 7681-52-9

HBCC MSDS No. CC17000



HILL BROTHERS *Chemical Co.*

1675 NORTHMAN STREET • ORANGE, CALIFORNIA 92667-3499
(714) 998-8800 • FAX: (714) 998-6310
<http://hillbrothers.com>

1675 No. Main Street, Orange, California 92867
Telephone No: 714-998-8800 | Chemtrec: 800-424-9300

Section II - Composition/Information On Ingredients

Chemical Name	CAS Number	%	Exposure Limits (TWAs) in Air		
			ACGIH TLV	OSHA PEL	STEL
Sodium Hypochlorite	7681-52-9	5-15	N/A	N/A	2mg/m ³
Sodium Hydroxide	1310-73-2	< 1	N/A	N/A	2mg/m ³

Section III - Hazard Identification

Routes of Exposure: Sodium hypochlorite may affect the body either through ingestion, inhalation, or contact with the eyes and/or skin.

Summary of Acute Health Hazards

Ingestion: May cause irritation of the membranes of the mouth and throat, stomach pain, and possible ulceration.

Inhalation: May cause burns, cough, pulmonary edema, up to 48 hours after exposure.

Skin: May cause moderate skin irritation and reddening of the skin. Prolonged exposure may cause burns, blistering.

Eyes: May cause severe irritation such as burns, and eye damage.

Summary of Chronic Health Hazards: Irritating effects increase with strength of solution and time of exposure.

Medical Conditions Generally Aggravated by Exposure: N/A

Note to Physician: The absence of visible signs of burns does NOT reliably exclude the presence of actual tissue damage.

Section IV - First Aid Measures

Ingestion: Do not give any liquid to an unconscious person. Drink large quantities of gelatin solution if able to swallow. If these are not available, drink large quantities of water. DO NOT give vinegar, baking soda or acidic antidotes. Do not induce vomiting unless directed by a Poison Control Center or Medical Doctor. GET MEDICAL ATTENTION IMMEDIATELY.

Inhalation: If adverse effects occur, remove to fresh air. Give artificial respiration if

not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. If respiration or pulse has stopped, call 911 or an ambulance, have a trained person administer Basic Life Support, Cardio-Pulmonary Resuscitation (CPR) / Automatic External Defibrillator (AED), and GET MEDICAL ATTENTION IMMEDIATELY.

Skin: Immediately flush contaminated areas with plenty of water for 15 to 20 minutes. Remove contaminated clothing, jewelry, and shoes immediately. Wash contaminated areas with soap and water. Thoroughly clean and dry contaminated clothing and shoes before reuse. GET MEDICAL ATTENTION IMMEDIATELY.

Eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. GET MEDICAL ATTENTION IMMEDIATELY. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Contact lenses should not be worn when working with this chemical.

Section V - Fire Fighting Measures

Flash Point: Nonflammable

Autoignition Temperature: N/A

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

Unusual Fire and Explosion Hazards: Heat and acid contamination will produce irritating and toxic fumes. May decompose, generating irritating chlorine gas.

Extinguishing Media: Use extinguishing agents appropriate for surrounding fire.

Special Firefighting Procedures: Wear NIOSH approved positive-pressure self-contained breathing apparatus. Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Section VI - Accidental Release Measures

[Spills may need to be reported to the National Response Center (800/424-8802) DOT Reportable Quantity (RQ) is 100 pounds Ventilate the area of the spill or leak. For large spills, evacuate the hazard area of unprotected personnel. Wear appropriate protective clothing. Dike and contain. Neutralize with sodium sulfite, bisulfite or thiosulfite. Remove with vacuum trucks or pump to storage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above. For small spills, take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal. This material is alkaline and may raise the pH of surface waters with low buffering capacity.

Section VII - Handling and Storage

Store in vented, closed, clean non-corrosive containers in a cool, dry location away from direct sunlight and heat to avoid deterioration. Do not store adjacent to chemicals which may react with the bleach if spillage occurs. If closed containers become heated, the containers should be vented to release decomposition products (mainly oxygen under normal decomposition). Do not mix or contaminate with ammonia, hydrocarbons, acids, alcohols or ethers.

Section VIII - Exposure Controls/Personal Protection

Respiratory Protection: Not required under normal use conditions. In the case of a fire use self-contained breathing apparatus. A NIOSH approved respirator with N95

(dust, fume, mist) filters may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure.

When decomposition products exist, acid gas cartridges are also required.

A half-piece air-purifying respirator may be used in concentrations up to 10X the acceptable exposure level and a full facepiece air-purifying respirator may be used in concentrations up to 50X the acceptable exposure level.

Supplied air should be used when the level is expected to above 50X the acceptable level, or when there is a potential for uncontrolled release.

A respiratory program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

Ventilation: No special ventilation is required unless bleach is exposed to decomposition conditions, i.e. heat or acidic conditions.

Protective Clothing: Avoid contact with the eyes. Wear chemical goggles and/or face shield if there is the likelihood of contact with the eyes. Avoid prolonged or repeated contact with the skin. Wear chemical-resistant gloves and other clothing as required to minimize contact.

Other Protective Clothing or Equipment: Safety showers and eyewash fountains should be available in storage and handling areas.

Work/Hygienic Practices: Wash hands thoroughly with soap and water before eating, drinking, smoking or using toilet facilities. Do NOT place food, coffee or other drinks in the area where dusting or splashing of solutions is possible.

Section IX - Physical and Chemical Properties

Physical State: Liquid

pH: 12

Freezing/Melting Point/Range: -5 to -25°C

Boiling Point/Range: 40-76°C (104-169°F)
(Decomposes)

Appearance/Color/Odor: Colorless to pale yellow watery liquid with a pungent chlorine odor

Solubility in Water: 100%

Vapor Pressure(mmHg): 12-17 @ 20°C

Specific Gravity(Water=1): 1.07-1.26 @ 20°C

Molecular Weight: 75.45

Vapor Density(Air=1): 2.61

% Volatiles (by volume): Variable-Water plus products of Decomposition

How to detect this compound :
N/A

Section X - Stability and Reactivity

Stability: Unstable above 40°C, in sunlight, or in contact with acid.

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: Stability decreases with concentration, heat, light exposure, decrease in pH and contamination with heavy metals, such as nickel, cobalt, copper and iron.

Materials to Avoid: Strong acids, oxidizable materials, heavy metals (which act as catalysts), reducing agents, ammonia solutions, ether, and many organic and inorganic chemicals such as paint, kerosene, paint thinners, shellac, grease and oils.

Hazardous Decomposition Products: Chlorine. Additional decomposition products which depend upon pH, temperature and time are sodium chloride, sodium chlorate and oxygen.

Section XI - Toxicological Information

Toxicity Data: By ingestion, Grade 1: oral rat LD₅₀ = 8.91 g/kg IDLH Value: Data not available

Section XII - Ecological Information

This material may be harmful to aquatic life in low concentrations.

Section XIII - Disposal Considerations

Do not contaminate food or feed by storage, disposal or cleaning of equipment. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. Can be neutralized with weak reducing agents such as sodium sulfite, bisulfite, or thiosulfite (DO NOT USE SULFATES OR BISULFATES). Dispose of in accordance with all applicable local, county, state and federal regulations.

Section XIV - Transport Information

DOT Proper Shipping Name: Hypochlorite Solutions
DOT Hazard Class/ I.D. No.: 8, UN1791, III

Section XV - Regulatory Information

Reportable Quantity: 100 Pounds (45.4 Kilograms)
NFPA Rating: Health - 2; Flammability - 0; Instability - 1
0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme
Carcinogenicity Lists: No **NTP:** No **IARC Monograph:** No **OSHA Regulated:** No
Certified to NSF/ANSI Standard 60 12.5% Solution Maximum Use 84 mg/L
Under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act, sodium hypochlorite (bleach) is registered for use as an antimicrobial pesticide, a sanitizer or disinfectant to kill bacteria, fungi, and viruses.

Section XVI - Other Information

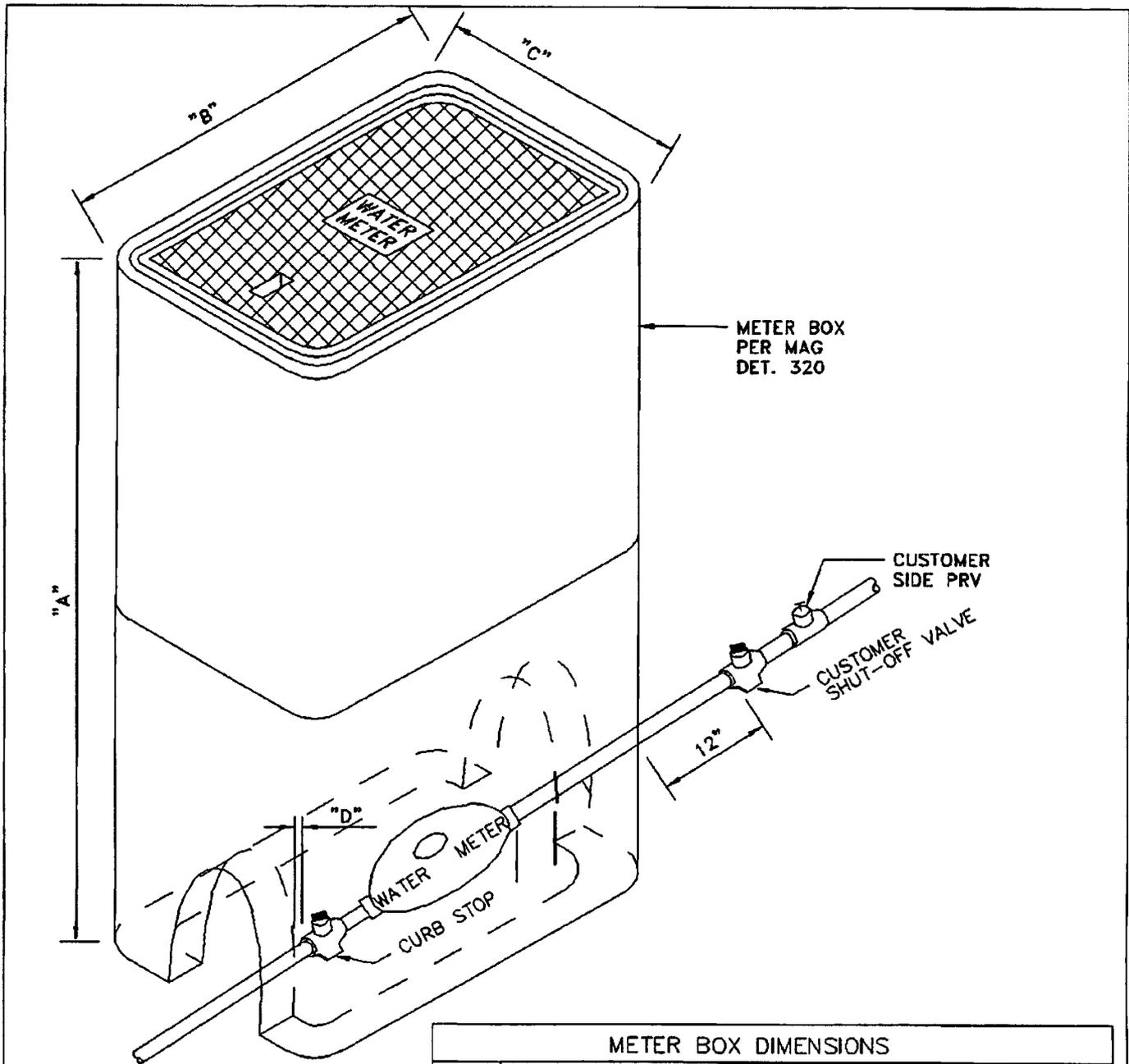
Hazardous Ingredients: Sodium hypochlorite is manufactured only in solution form. Industrial grade sodium hypochlorite contains from 10 - 15% by weight NaOCl (10 - 17.8% available chlorine) with about 0.50-1.00% excess NaOH for stability control.

Synonyms/Common Names: Liquid Bleach

Chemical Family/Type: Halogen Compound

Sections changed since last revision: III, IV, VII, XIII, XV

IMPORTANT! Read this MSDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This MSDS has been prepared according to the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The MSDS information is based on sources believed to be reliable. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, **Hill Brothers Chemical Company** makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Also, additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks prior to use, and then to exercise appropriate precautions for protection of employees and others.



See Standard Specification 9-03-080 for notes relating to this detail "Water Meter Boxes".

METER BOX DIMENSIONS				
DIM	BOX NUMBER			
	#1-3/4"	#2-1"	#3-1 1/2"	#4-2"
A	19"	19"	19"	19"
B	19.5"	26"	29"	34"
C	12.5"	18"	18.5"	23"
D	2"	2"	3"	3"

N.T.S.

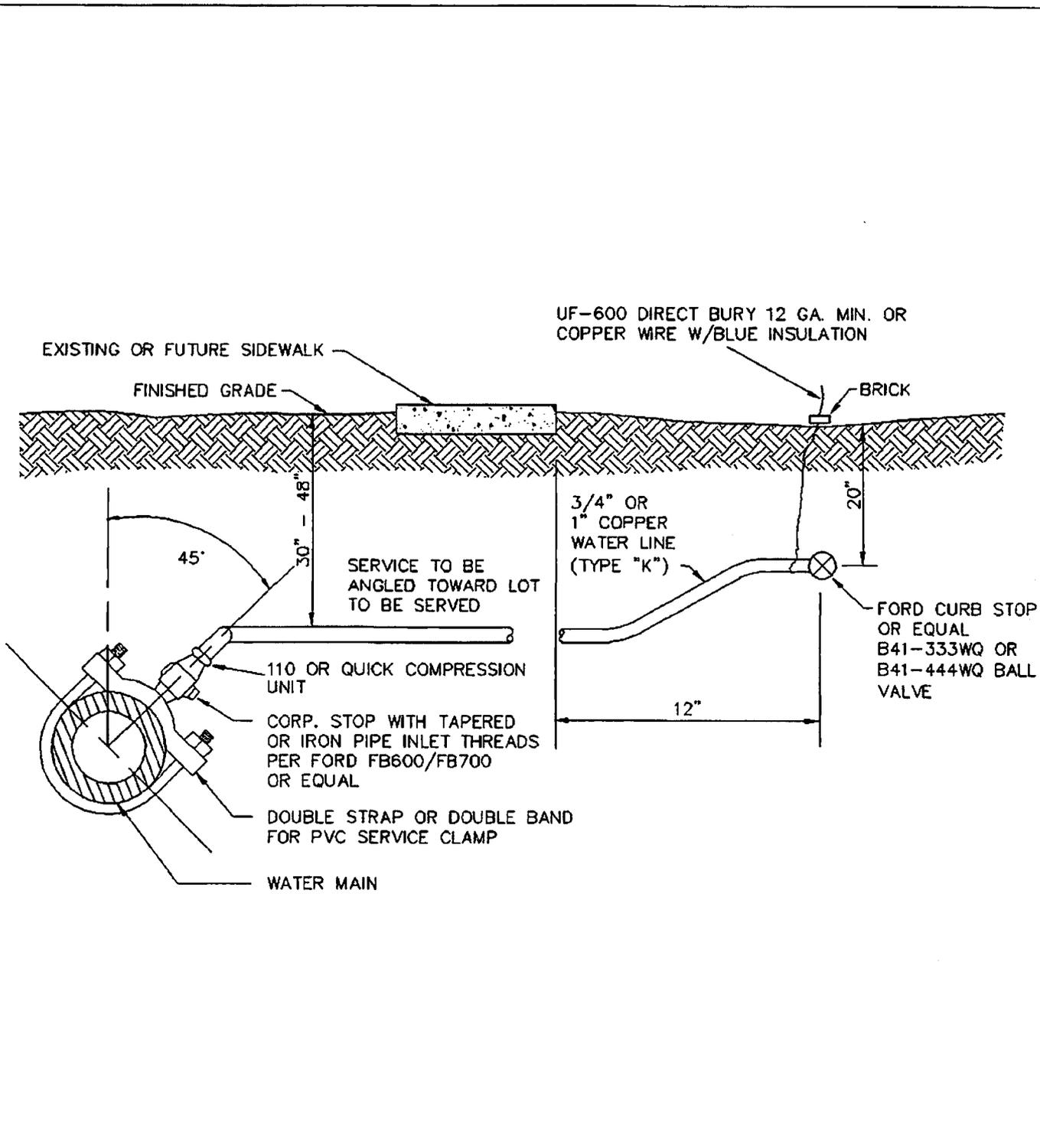
CONCRETE WATER METER BOX ASSEMBLY

Rev. 11/17/08
Effective 01/20/09

City of Flagstaff
ENGINEERING DETAIL

9-03-080

1
1

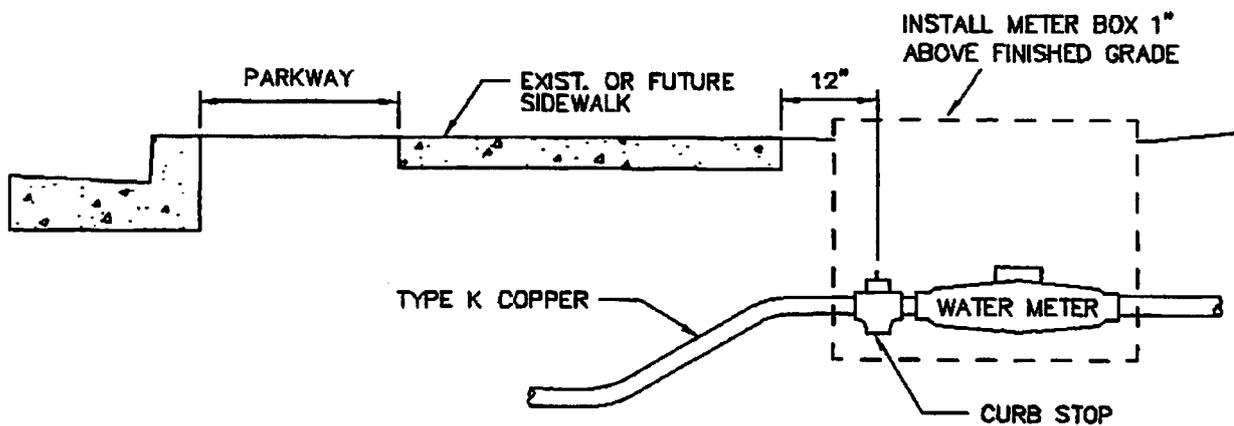


See Standard 9-03-070 for notes relating to this detail.

N.T.S.

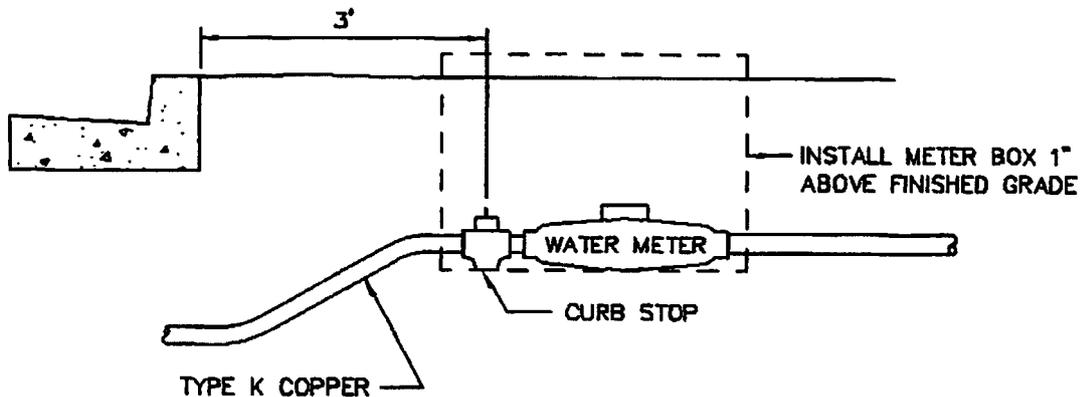
WATER SERVICE CONNECTION
3/4 INCH and 1 INCH

Rev. 11/17/08 Effective 01/20/09	City of Flagstaff ENGINEERING DETAIL	9-03-070	<table border="1" style="width: 100%; height: 100%;"> <tr> <td style="text-align: center; vertical-align: middle;">1</td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">2</td> </tr> </table>	1	2
1					
2					



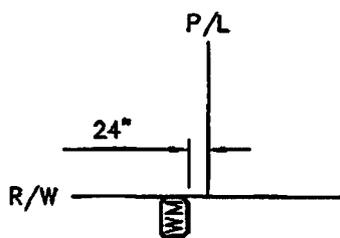
TYPE A

IN AREAS WHERE SIDEWALK IS TO BE INSTALLED WITH OR WITHOUT PARKWAY, USE THIS CONFIGURATION.



TYPE B

IN AREAS WHERE NO SIDEWALK IS REQUIRED, USE THIS CONFIGURATION.



IN AREAS WHERE NO CURB, GUTTER OR SIDEWALK IS REQUIRED THE FOLLOWING REQUIREMENTS SHALL BE MET :

1. METER BOX SHALL BE SET ON FRONT PROPERTY LINE.
2. 3/4" AND 1" CURB STOP SHALL BE 24" OUTSIDE PROPERTY LINE.
3. 1-1/2" AND 2" CURB STOP SHALL BE 36" OUTSIDE PROPERTY LINE.
4. CURB STOP SHALL BE 2" FROM INSIDE OF BOX TO ALLOW FOR EASY ACCESS TO BOTH COUPLINGS.

N.T.S.

**WATER SERVICE CONNECTION
3/4 INCH and 1 INCH**

Rev. 12/18/07
Effective 12/18/07

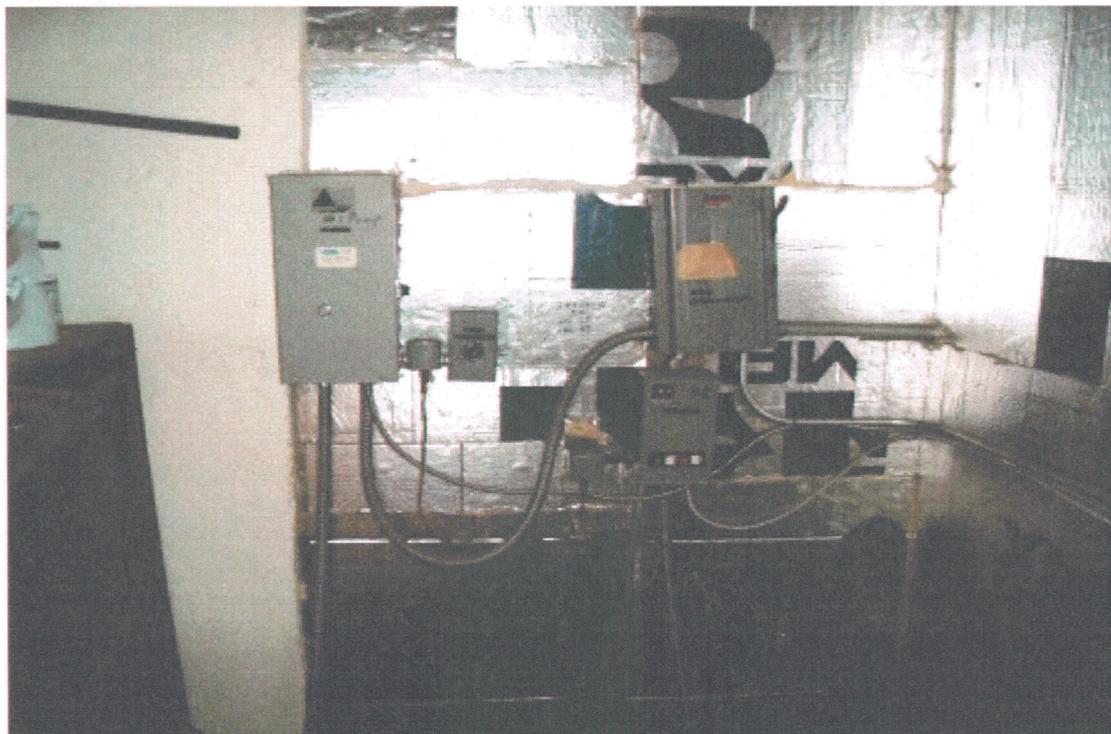
City of Flagstaff
ENGINEERING DETAIL

9-03-070

2
2

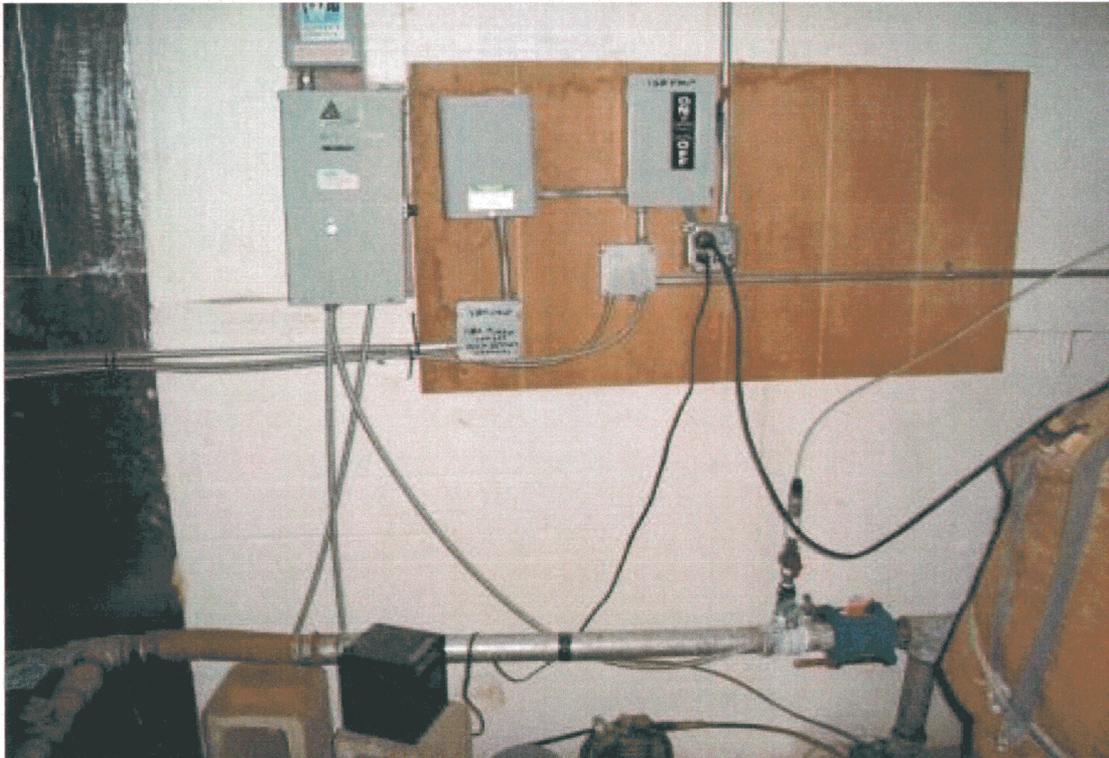


View looking at water booster pump

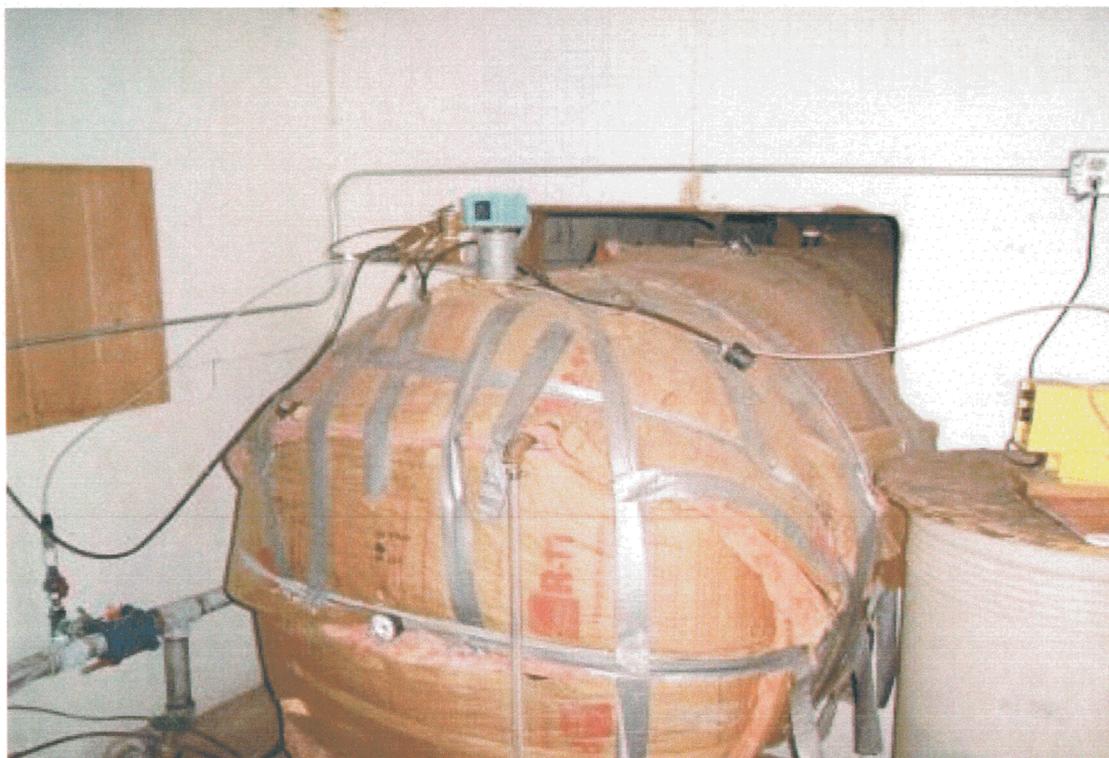


View looking at electrical pump controls

West Village Water System
PWS-#0403021

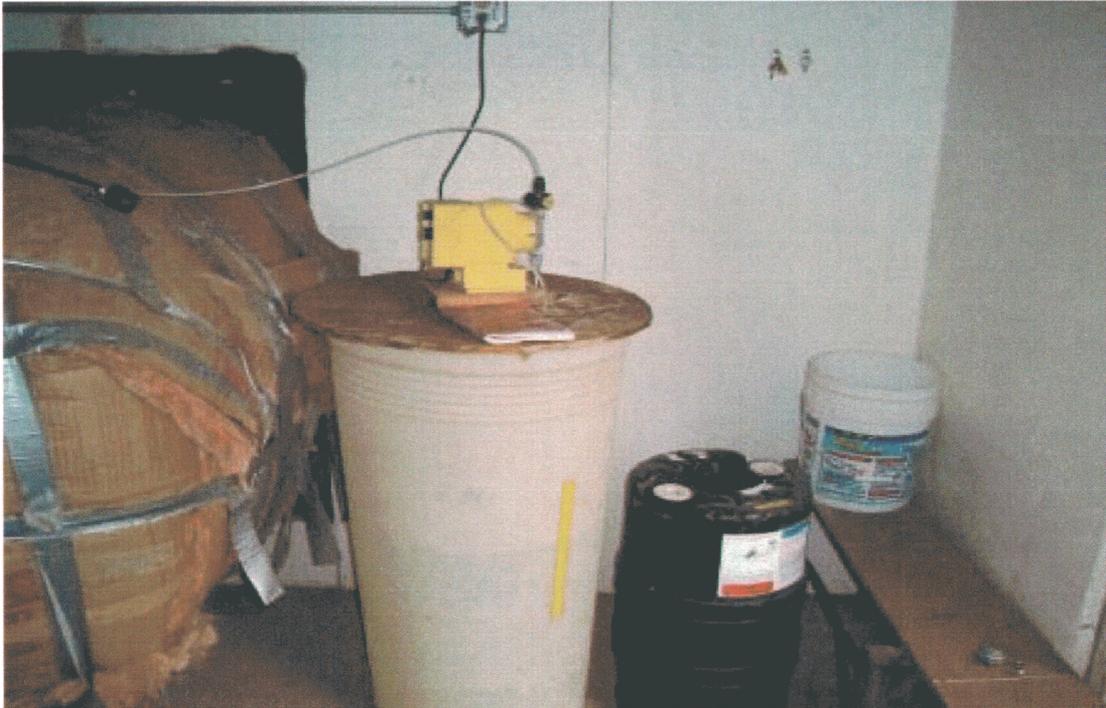


View looking at chlorine injection point

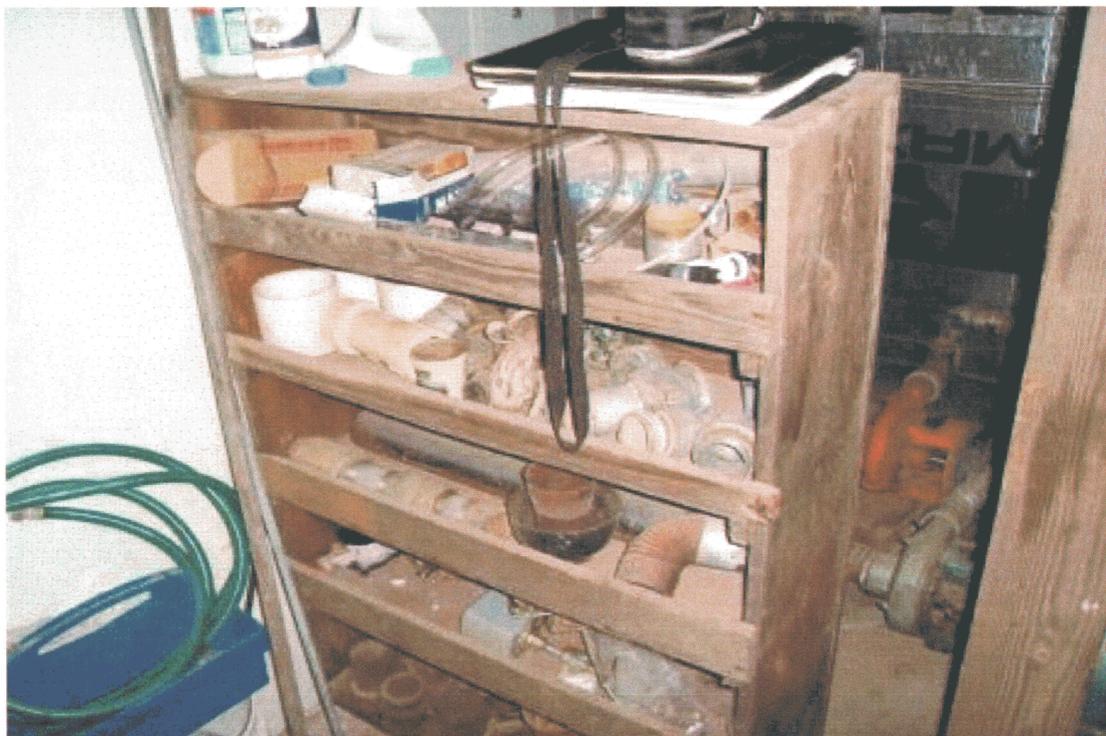


View looking control end of hydro tank

West Village Water System
PWS-#0403021



View looking at sodium hypochlorite day tank



View looking at spare parts inventory

West Village Water System
PWS-#0403021



View looking at well pump control



View looking at well pump controls

West Village Water System
PWS-#0403021



View looking at well pump motor protection



View looking at well head

West Village Water System
PWS-#0403021



View looking at well head discharge piping



View looking at incoming power supply

West Village Water System
PWS-#0403021



View looking at incoming power

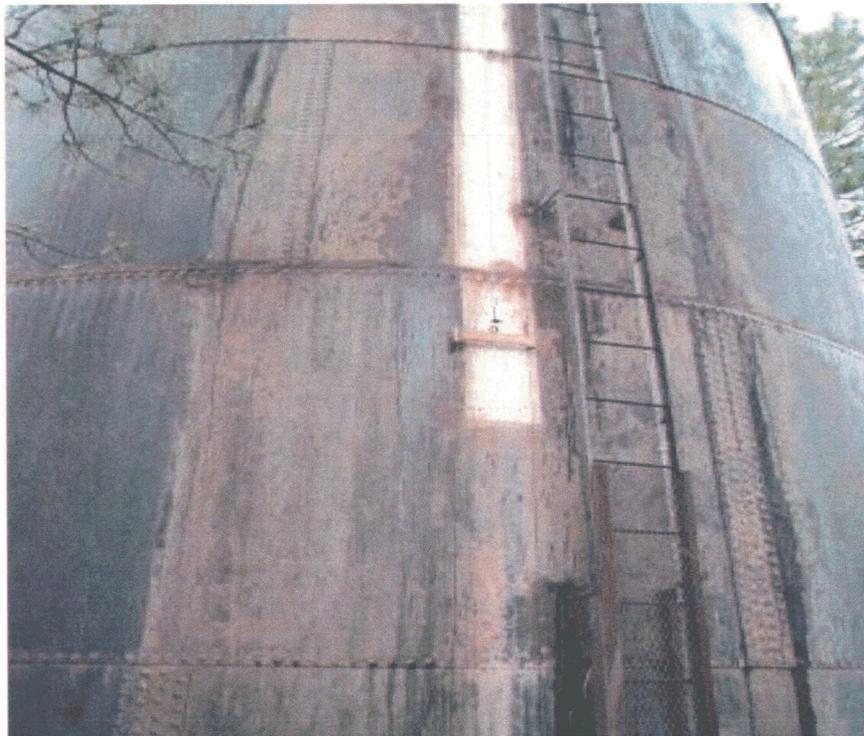


View looking at well meter, vent, relief, sample tap

West Village Water System
PWS-#0403021



View looking at well head slab and electrical

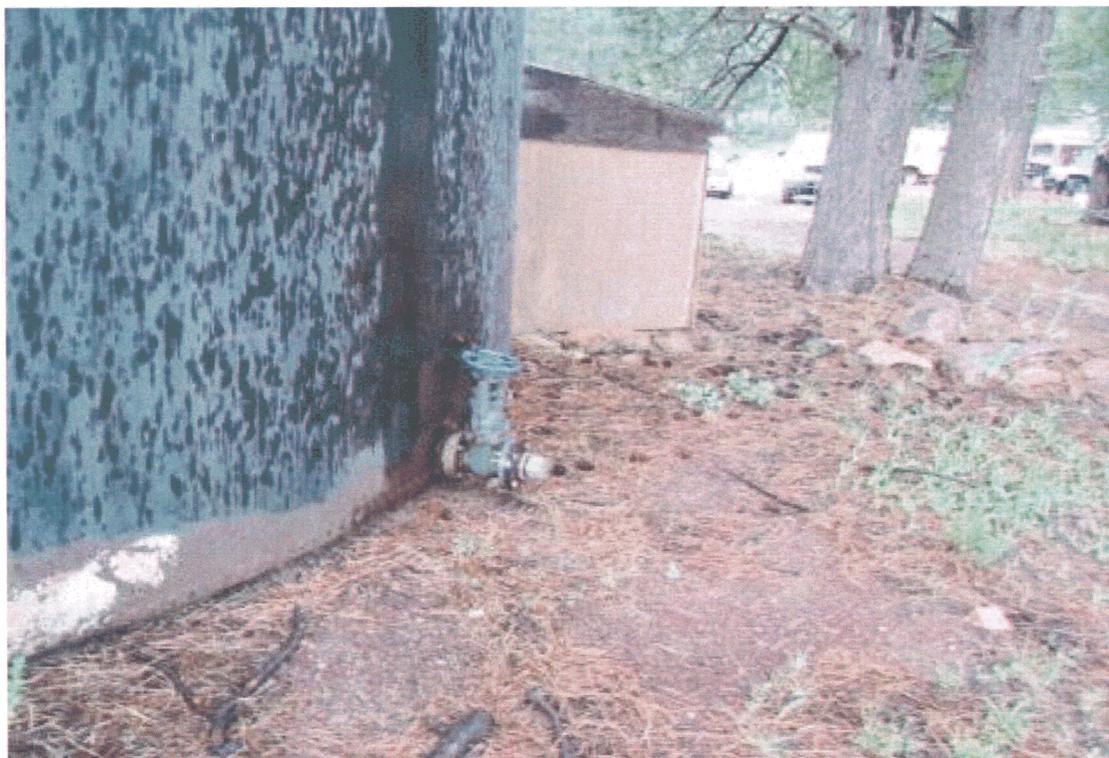


View looking at riveted steel water storage tank and ladder

West Village Water System
PWS-#0403021



View looking at ladder cage and manway



View looking at tank drain

West Village Water System
PWS-#0403021



View looking at water tank



View looking at tank foundation

West Village Water System
PWS-#0403021



View looking at tank roof



View looking at level controls

West Village Water System
PWS-#0403021

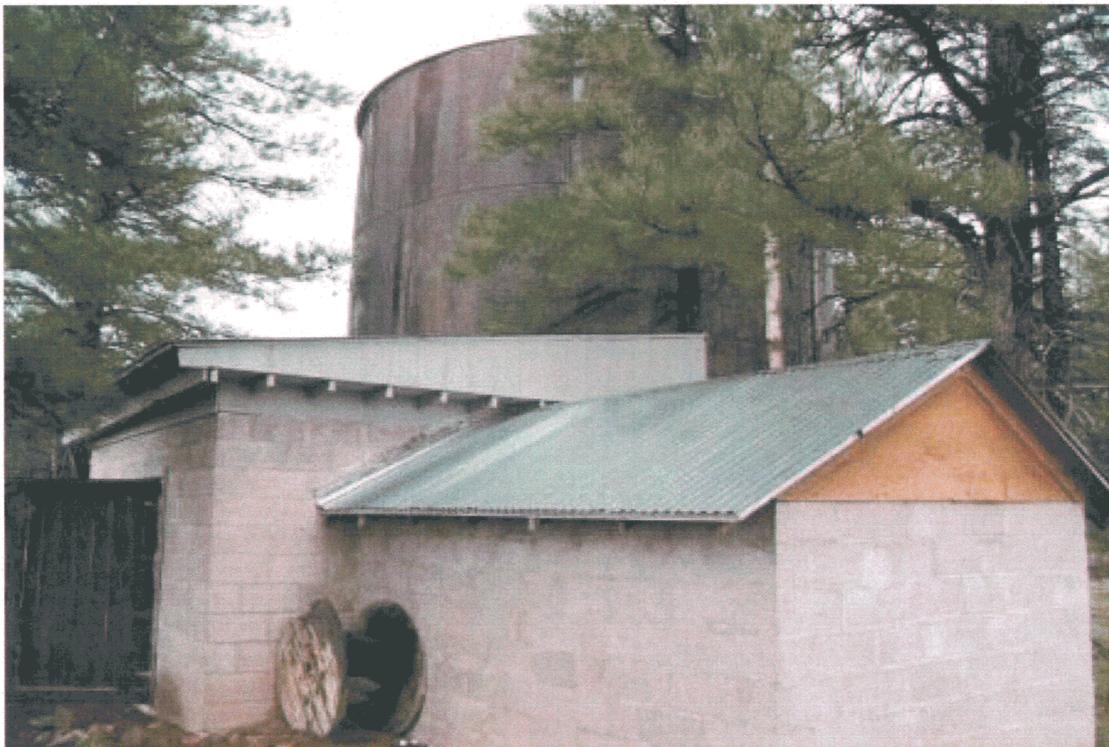


View looking at locked manway and screened vent

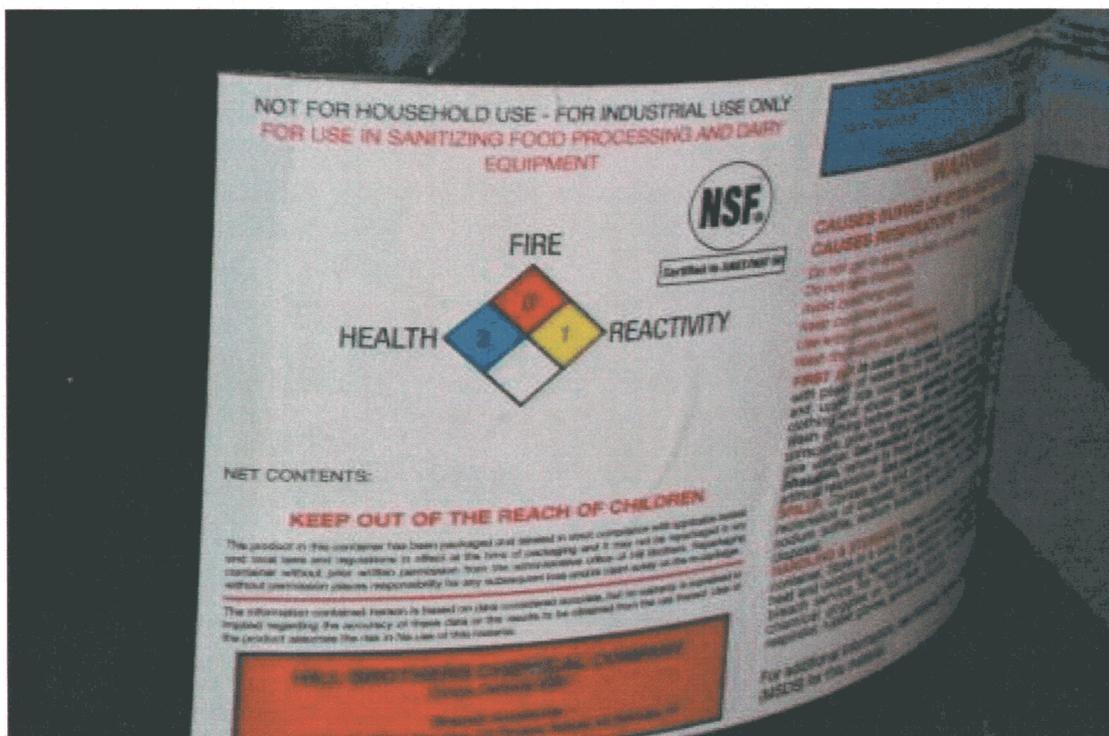


View looking at manway, vent and curb

West Village Water System
PWS-#0403021

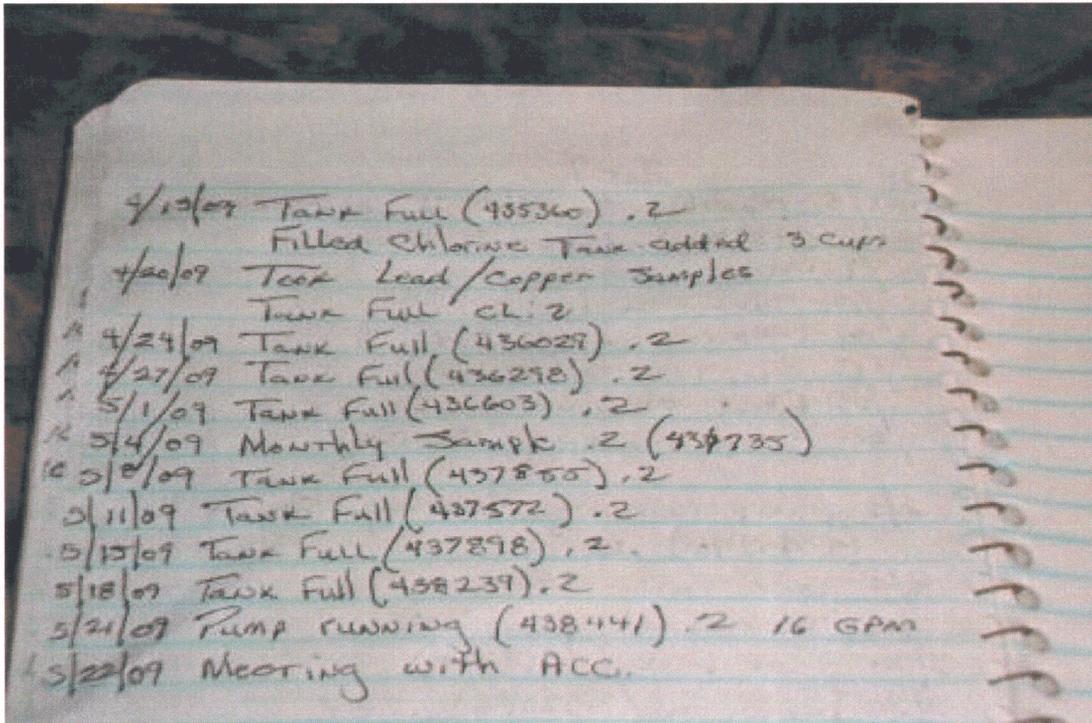


View looking at booster house and hydro tank building

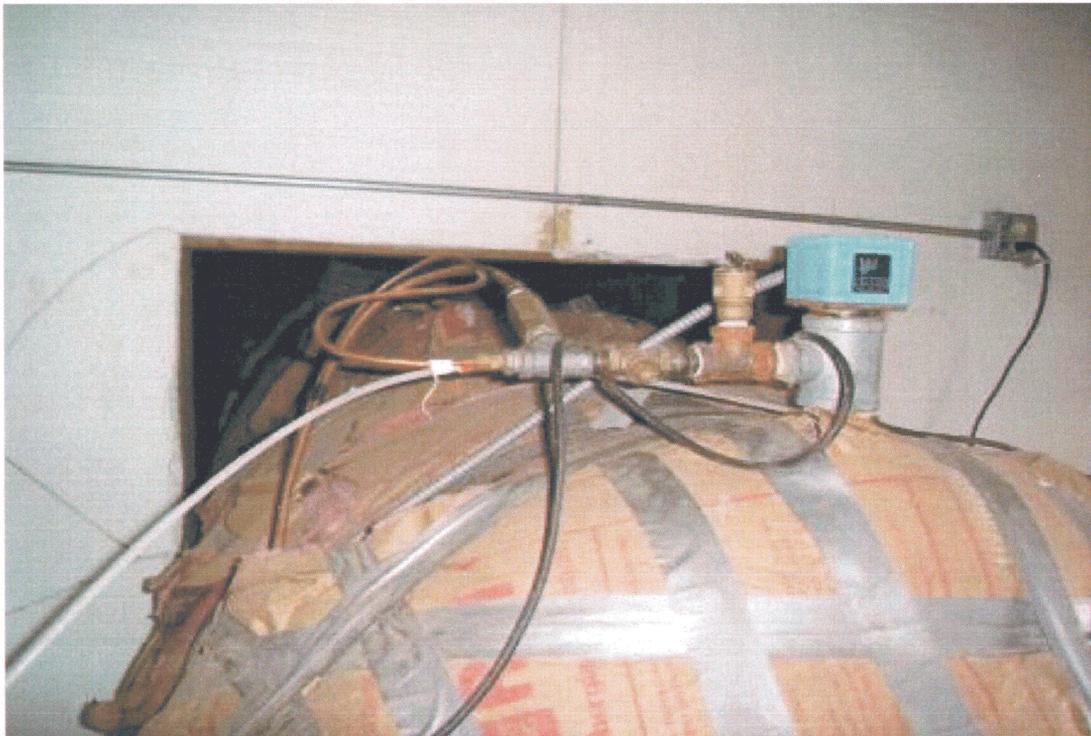


View looking at NSF approved sodium hypochlorite

West Village Water System
PWS-#0403021



View looking at daily log book



View looking at hydro tank controls

West Village Water System
PWS-#0403021



View looking at meter box location



View looking meter box full of water

West Village Water System
PWS-#0403021



View looking at meter box location



View looking at meter box location



View looking at meter box full of debris



View looking at meter box location

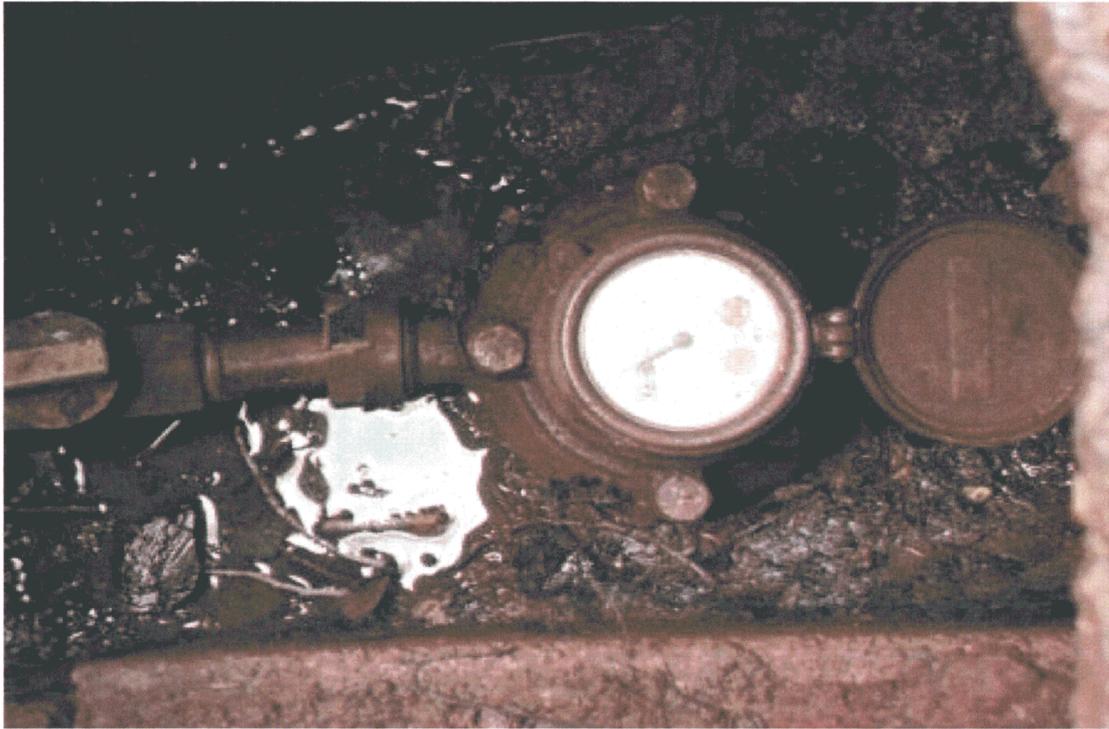


View looking at deep meter box set (3 boxes)



View looking at meter box (acceptable to read)

West Village Water System
PWS-#0403021



View looking at meter connection and shut off



View looking at meter box location

West Village Water System
PWS-#040021



View looking at meter box, meter offset, and bad lens



View looking at meter box (deep and bad lens)

West Village Water System
PWS-#0403021



View looking at meter box (deep set, bad lens, cup to bail water)



View looking at meter box location marker

West Village Water System
PWS-#0403021



View looking at meter box (deep set)

APPENDIX C
ADEQ'S COMPLIANCE STATUS REPORT

West Village Water System
PWS-#0403021



WEST VILLAGE WATER CO SOURCE WATER ASSESSMENT AREA System ID Number 03021



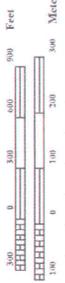
ALU#
 1
 2
 3

ALU Name
 Tyrell-Marxen Chev/Olds/C
 Flagstaff Soc #127149



- Agriculture
- △ Cemetery
- ◇ Dry Cleaner
- ▽ Golf Course
- Haz Material
- ◻ Landfill
- ▲ Marina
- ◆ Metal Plating
- ▽ Petroleum Product
- ⊙ Underground Storage Tank
- ⊞ Foundry/Smelter
- ▲ Pesticide/Herbicide
- ◆ Mining
- ▽ Superfund
- ⊕ WWPT/Septic/Cesspool
- Water Supply Well
- Road
- River/Stream
- Source Water Assessment Area

Well/ALU CPS data collected 1/3/00 through 8/20/02



AZ Dept. Environmental Quality
 Water Quality Division
 Drinking Water Section
 Date: 05/23/03

Arizona Department of Environmental Quality
Drinking Water Monitoring and Protection Unit
 Mail Code 5415B-2
 1110 West Washington Street
 Phoenix, AZ 85007

Drinking Water Compliance Status Report

System Name	System Type	Is system consecutive?	
WEST VILLAGE WATER CO	X Community		Yes,
System ID #	Non-transient Non-community		to PWS #
03-021	Transient Non-community	X	No

Overall compliance status	No major deficiencies	X	Major deficiencies
Monitoring and Reporting status	No major deficiencies	X	Major deficiencies
Comments: Since 2004, the PWS is required to take five (5) lead and copper (Pb//Cu) samples per year, between June 1 and September 30. The last set of samples submitted were for 2002. They submitted three (3) samples for 2008, which do not meet the minimum number of samples required.			

Operation and Maintenance status	X	No major deficiencies	Major deficiencies
Date of last Sanitary Survey	2-28-07	Inspector	Steve Camp, NRO
Major unresolved/ongoing operation and maintenance deficiencies:			
<input type="checkbox"/> unable to maintain 20psi		<input type="checkbox"/> Inadequate storage	
<input type="checkbox"/> cross connection/backflow problems		<input type="checkbox"/> surface water treatment rule	
<input type="checkbox"/> treatment deficiencies		<input type="checkbox"/> approval to construct/of construction	
<input type="checkbox"/> certified operator		<input type="checkbox"/> other =	
Comments: None			

Is an ADEQ administrative order in effect?		Yes	X	No
Comments: None				

System Information			
Population Served	220		
Service Connections	60		
Number of Entry Points to the Distribution System	1		
Number of Sources	1		
Initial Monitoring Year	1995		
Monitoring Assistance Program (MAP) System	X	Yes	No

Evaluation completed by	Donna Calderon, Manager <i>DC</i> Drinking Water Monitoring and Protection Unit		
Phone	802-771-4641	Date	November 14, 2008
	Based upon data submitted by the water system, ADEQ has determined that this system is currently delivering water that meets water quality standards required by 40 CFR 141/Arizona Administrative Code, Title 18, Chapter 4.		
X	Based upon the monitoring and reporting deficiencies noted above, ADEQ cannot determine if this system is currently delivering water that meets water quality standards required by 40 CFR 141/Arizona Administrative Code, Title 18, Chapter 4.		
	Based upon the operation and maintenance deficiencies noted above, ADEQ cannot determine if this system is currently delivering water that meets water quality standards required by 40 CFR 141/Arizona Administrative Code, Title 18, Chapter 4.		

This compliance status report does not guarantee the water quality for this system in the future, and does not reflect the status of any other water system owned by this utility company.

WL - 55-806159	WL-55-806159	TP - TPGW001	GW001				
SS - EPDS001	EPDS001	DS - DS001	DISTRIBUTION SYSTEM				
TP - TPGW001	TREATMENT PLANT GW001	SS - EPDS001	EPDS001				
Water Purchases							
Water System No.	Water System Name		Treatment				
No Water Purchases							
Buyers of Water							
Water System No.		Name					
No Buyers							
Site Visits							
Deficiency(ies)/Recommendation(s)							
Reason	Date	Cat.	Sev.	Desc. Code Desc. Text	Comments	Det. Date	Res. Date
SNSV	02-28-2007	No Deficiencies/Recommendations Entered					
SNSV	12-15-2003	No Deficiencies/Recommendations Entered					
SNSV	11-23-1999	No Deficiencies/Recommendations Entered					
SNSV	11-21-1995	No Deficiencies/Recommendations Entered					
SNSV	08-13-1993	No Deficiencies/Recommendations Entered					
SNSV	11-28-1990	No Deficiencies/Recommendations Entered					
SNSV	09-20-1990	No Deficiencies/Recommendations Entered					
Routine TCR Sample Schedules							
Begin Date	End Date	Sample Frequency					
06-01-2007	Continuous	1 RT/MN					
05-01-2007	05-31-2007	5 TR/MN					
04-01-2006	04-30-2007	1 RT/MN					
03-01-2006	03-31-2006	5 TR/MN					
10-01-2005	02-28-2006	1 RT/MN					
09-01-2005	09-30-2005	5 TR/MN					
09-01-2005	08-31-2005	1 RT/MN					
08-01-2005	08-31-2005	5 TR/MN					
01-01-1991	07-31-2005	1 RT/MN					
Repeat TCR Sample Schedules							
Begin Date	End Date	Sample Frequency	Original Sample ID/Date				
No Repeat TCR Schedules							
Group Non-TCR Sample Schedules							
Facility	Begin Date	End Date	Sample Frequency	Analyte Group Code	Analyte Group Name		
DS001	01-01-2004	Continuous	1 RT/YR	DBP	DBPS (TTHM & HAA5)		
DS001	01-01-2004	Continuous	5 RT/YR	PBCU	LEAD & COPPER		
EPDS001	01-01-2004	Continuous	1 RT/3Y	IOCC	IOCS-CWS		
EPDS001	01-01-2010	Continuous	1 RT/6Y	RADS	RADS		
EPDS001	01-01-2004	Continuous	1 RT/9Y	SOCS	SOCS		

EPDS001	01-01-2004	Continuous	1 RT/6Y	VOCD	DATA ENTRY-VOCS			
Individual Non-TCR Sample Schedules								
Facility	Begin Date	End Date	Sample Frequency	Analyte Code	Analyte Name			
EPDS001	01-01-2004	Continuous	1 RT/YR	1040	NITRATE			
EPDS001	01-01-2004	Continuous	1 RT/9Y	1041	NITRITE			
EPDS001	01-01-2004	Continuous	1 RT/9Y	1094	ASBESTOS			
Group Violations								
Fed. Fiscal Year	Comp Prd Begin Date	Comp Prd End Date	Sample Point	Viol. Type	Viol. Name	Comp Achieved	An. Group	An. Group Name
2007	01-01-2006	12-31-2006	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	DBP	DBPS (TTHM & HAA5)
Individual Violations								
Viol. No.	Comp Prd Begin Date	Comp Prd End Date	Sample Point	Viol. Type	Viol. Name	Comp Achieved	An. Code	An. Name
2008-4833	12-01-2007	12-31-2007	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2008-4832	11-01-2007	11-30-2007	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2008-4831	10-01-2007	10-31-2007	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2008-4830	01-01-2007	12-31-2007		52	FOLLOW-UP OR ROUTINE TAP M/R (LCR)	N	5000	LEAD & COPPER RULE
2007-4826	01-01-2006	12-31-2006		52	FOLLOW-UP OR ROUTINE TAP M/R (LCR)	N	5000	LEAD & COPPER RULE
2007-4823	04-01-2007	04-30-2007	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2007-4824	05-01-2007	05-31-2007	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2007-4825	06-01-2007	06-30-2007	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2007-4820	05-01-2007	05-31-2007		24	MONITORING (TCR), ROUTINE MINOR	Y	3100	COLIFORM (TCR)
2007-4817	04-01-2007	04-30-2007		25	MONITORING (TCR), REPEAT MAJOR	Y	3100	COLIFORM (TCR)
2007-4816	01-01-2007	01-31-2007	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2007-4814	02-01-2007	02-28-2007	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2007-4815	03-01-2007	03-31-2007	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2007-4812	11-01-2006	11-30-2006	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE

<u>2007-4813</u>	10-01-2006	10-31-2006	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2007-4811</u>	12-01-2006	12-31-2006	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2006-4810</u>	01-01-2005	12-31-2005		52	FOLLOW-UP OR ROUTINE TAP M/R (LCR)	N	5000	LEAD & COPPER RULE
<u>2007-4809</u>	09-01-2006	09-30-2006	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2007-4808</u>	08-01-2006	08-31-2006	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2007-4807</u>	07-01-2006	07-31-2006	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2006-4606</u>	01-01-2006	01-31-2006	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2006-4706</u>	02-01-2006	02-28-2006	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2006-4806</u>	03-01-2006	03-31-2006	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2006-4506</u>	03-01-2006	03-31-2006		24	MONITORING (TCR), ROUTINE MINOR	Y	3100	COLIFORM (TCR)
<u>2006-4406</u>	02-01-2006	02-28-2006		25	MONITORING (TCR), REPEAT MAJOR	Y	3100	COLIFORM (TCR)
<u>2006-4106</u>	10-01-2005	10-31-2005	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2006-4206</u>	11-01-2005	11-30-2005	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2006-4306</u>	12-01-2005	12-31-2005	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2006-4006</u>	09-01-2005	09-30-2005		24	MONITORING (TCR), ROUTINE MINOR	Y	3100	COLIFORM (TCR)
<u>2005-3905</u>	01-01-2005	12-31-2005		52	FOLLOW-UP OR ROUTINE TAP M/R (LCR)	Y	5000	LEAD & COPPER RULE
<u>2006-3806</u>	08-01-2005	08-31-2005		25	MONITORING (TCR), REPEAT MAJOR	Y	3100	COLIFORM (TCR)
<u>2005-3605</u>	05-01-2004	05-31-2004	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2005-3705</u>	04-01-2004	04-30-2004	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2005-3505</u>	06-01-2004	06-30-2004	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2005-3405</u>	09-01-2005	09-30-2005	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2005-3305</u>	08-01-2005	08-31-2005	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2005-3205</u>	07-01-2005	07-31-2005	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2005-3105</u>	01-01-2004	12-31-2004		52	FOLLOW-UP OR ROUTINE TAP M/R (LCR)	N	5000	LEAD & COPPER RULE
<u>2005-3005</u>	04-01-2005	04-30-2005	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE

<u>2005-2905</u>	05-01-2005	05-31-2005	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2005-2805</u>	06-01-2005	06-30-2005	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2005-2705</u>	01-01-2004	12-31-2004		71	CCR REPORT	Y	7000	CONSUMER CONFIDENCE RULE
<u>2005-2605</u>	01-01-2003	12-31-2003		71	CCR REPORT	Y	7000	CONSUMER CONFIDENCE RULE
<u>2005-2505</u>	01-01-2002	12-31-2002		71	CCR REPORT	Y	7000	CONSUMER CONFIDENCE RULE
<u>2005-2405</u>	01-01-2004	12-31-2004	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	2950	TTHM
<u>2005-2105</u>	01-01-2005	01-31-2005	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2005-2205</u>	02-01-2005	02-28-2005	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2005-1905</u>	11-01-2004	11-30-2004	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2005-2305</u>	03-01-2005	03-31-2005	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2005-1605</u>	08-01-2004	08-31-2004	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2005-1805</u>	10-01-2004	10-31-2004	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2005-1705</u>	09-01-2004	09-30-2004	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2005-2005</u>	12-01-2004	12-31-2004	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2004-904</u>	01-01-2004	01-31-2004	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2004-1104</u>	03-01-2004	03-31-2004	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2005-1205</u>	04-01-2004	04-30-2004	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2005-1305</u>	05-01-2004	05-31-2004	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2005-1405</u>	06-01-2004	06-30-2004	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2005-1505</u>	07-01-2004	07-31-2004	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2004-1004</u>	02-01-2004	02-29-2004	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
<u>2004-704</u>	01-01-2003	12-31-2003		52	FOLLOW-UP OR ROUTINE TAP M/R (LCR)	N	5000	LEAD & COPPER RULE
<u>2002-502</u>	01-01-2001	12-31-2001	EPDS001	03	MONITORING, ROUTINE MAJOR	Y	1040	NITRATE
<u>2000-400</u>	01-01-1999	12-31-1999	EPDS001	03	MONITORING, ROUTINE MAJOR	Y	1040	NITRATE
<u>2000-</u>	10-01-	10-31-			MONITORING (TCR),			

200	1999	1999		23	ROUTINE MAJOR	Y	3100	COLIFORM (TCR)
1999-199	03-01-1999	03-31-1999		23	MONITORING (TCR), ROUTINE MAJOR	Y	3100	COLIFORM (TCR)
1999-399	01-01-1998	12-31-1998	EPDS001	03	MONITORING, ROUTINE MAJOR	Y	1040	NITRATE

Recent Positive TCR Sample Results

Type/ RP Loc	Sample No.	Date	Sample Point	Sample Pt. Description	Lab ID	Result / Analyte / Method / MP
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PBCU Sample Summary Results

MP Begin Date	MP End Date	# Samples	Measure	Units	Analyte Code	Analyte Name
01-01-2008	12-31-2008	3	0.053	MG/L	CU90	COPPER 90TH PERCENTILE VALUE
01-01-2008	12-31-2008	3	0.051	MG/L	CU90	COPPER 90TH PERCENTILE VALUE
01-01-2008	12-31-2008	0	null	null	CU90	COPPER 90TH PERCENTILE VALUE
01-01-2008	12-31-2008	3	0.005	MG/L	PB90	LEAD 90TH PERCENTILE VALUE
01-01-2008	12-31-2008	3	0.004	MG/L	PB90	LEAD 90TH PERCENTILE VALUE
01-01-2008	12-31-2008	0	null	null	PB90	LEAD 90TH PERCENTILE VALUE

Recent Primary/Secondary Sample Results

Fac/ Site	Sample No.	Date	An. Code	Analyte	Result	Unit	MCL
EPDS001- EPDS001	0703354-01A	03-12- 2007	1074	ANTIMONY, TOTAL	ND		.006 MG/L
EPDS001- EPDS001	0703354-01A	03-12- 2007	1005	ARSENIC	.0094	MG/L	.01 MG/L
EPDS001- EPDS001	0703354-01A	03-12- 2007	1010	BARIUM	.604	MG/L	2 MG/L
EPDS001- EPDS001	0703354-01A	03-12- 2007	1075	BERYLLIUM, TOTAL	ND		.004 MG/L
EPDS001- EPDS001	0703354-01A	03-12- 2007	1015	CADMIUM	ND		.005 MG/L
EPDS001- EPDS001	0703354-01A	03-12- 2007	1020	CHROMIUM	ND		.1 MG/L
EPDS001- EPDS001	0703369-01A-02	03-12- 2007	1024	CYANIDE	ND		.2 MG/L
EPDS001- EPDS001	0703354-01A	03-12- 2007	1025	FLUORIDE	ND		4 MG/L
EPDS001- EPDS001	0703369-01A-02	03-12- 2007	1035	MERCURY	ND		.002 MG/L
EPDS001- EPDS001	0703354-01A	03-12- 2007	1036	NICKEL	ND		.1 MG/L
EPDS001- EPDS001	0703354-01A	03-12- 2007	1045	SELENIUM	ND		.05 MG/L
EPDS001-		03-12-					

Fac./ Site	Sample No.	Date	An. Code	Analyte	Result	Unit	MCL
EPDS001	0703354-01A	2007	1085	THALLIUM, TOTAL	ND		.002 MG/L
Recent SOC Sample Results							
EPDS001-EPDS001	2405250059S	05-25-2004	2110	2,4,5-TP	ND	MG/L	.05 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2110	2,4,5-TP	ND	MG/L	.05 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2110	2,4,5-TP	ND	MG/L	.05 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2110	2,4,5-TP	ND	MG/L	.05 MG/L
EPDS001-EPDS001	2110110080S	10-09-2001	2110	2,4,5-TP	ND		.05 MG/L
EPDS001-EPDS001	2110110080S	10-09-2001	2105	2,4-D	ND		.07 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2105	2,4-D	ND	MG/L	.07 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2105	2,4-D	ND	MG/L	.07 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2105	2,4-D	ND	MG/L	.07 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2105	2,4-D	ND	MG/L	.07 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2050	ATRAZINE	ND	MG/L	.003 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2050	ATRAZINE	ND	MG/L	.003 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2050	ATRAZINE	ND	MG/L	.003 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2050	ATRAZINE	ND	MG/L	.003 MG/L
EPDS001-EPDS001	2110110080S	10-09-2001	2050	ATRAZINE	ND		.003 MG/L
EPDS001-EPDS001	2405250069S	05-25-2004	2010	BHC-GAMMA	ND	MG/L	.0002 MG/L
EPDS001-EPDS001	2405250069S	05-25-2004	2959	CHLORDANE	ND	MG/L	.002 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2031	DALAPON	ND	MG/L	.2 MG/L
EPDS001-EPDS001	2110110080S	10-09-2001	2031	DALAPON	ND		.2 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2031	DALAPON	ND	MG/L	.2 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2031	DALAPON	ND	MG/L	.2 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2031	DALAPON	ND	MG/L	.2 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2041	DINOSEB	ND	MG/L	.007 MG/L
EPDS001-		05-25-					.007

EPDS001	2405250059S	2004	2041	DINOSEB	ND	MG/L	MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2041	DINOSEB	ND	MG/L	.007 MG/L
EPDS001-EPDS001	2110110080S	10-09-2001	2041	DINOSEB	ND		.007 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2041	DINOSEB	ND	MG/L	.007 MG/L
EPDS001-EPDS001	2405250069S	05-25-2004	2005	ENDRIN	ND	MG/L	.002 MG/L
EPDS001-EPDS001	2405250069S	05-25-2004	2065	HEPTACHLOR	ND	MG/L	.0004 MG/L
EPDS001-EPDS001	2405250069S	05-25-2004	2067	HEPTACHLOR EPOXIDE	ND	MG/L	.0002 MG/L
EPDS001-EPDS001	2405250069S	05-25-2004	2051	LASSO	ND	MG/L	.002 MG/L
EPDS001-EPDS001	2405250069S	05-25-2004	2015	METHOXYCHLOR	ND	MG/L	.04 MG/L
EPDS001-EPDS001	2110110080S	10-09-2001	2326	PENTACHLOROPHENOL	ND		.001 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2326	PENTACHLOROPHENOL	ND	MG/L	.001 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2326	PENTACHLOROPHENOL	ND	MG/L	.001 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2326	PENTACHLOROPHENOL	ND	MG/L	.001 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2326	PENTACHLOROPHENOL	ND	MG/L	.001 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2040	PICLORAM	ND	MG/L	.5 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2040	PICLORAM	ND	MG/L	.5 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2040	PICLORAM	ND	MG/L	.5 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2040	PICLORAM	ND	MG/L	.5 MG/L
EPDS001-EPDS001	2110110080US	10-09-2001	2040	PICLORAM	ND		.5 MG/L
EPDS001-EPDS001	2110110080US	10-09-2001	2037	SIMAZINE	ND		.004 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2037	SIMAZINE	ND	MG/L	.004 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2037	SIMAZINE	ND	MG/L	.004 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2037	SIMAZINE	ND	MG/L	.004 MG/L
EPDS001-EPDS001	2405250059S	05-25-2004	2037	SIMAZINE	ND	MG/L	.004 MG/L
EPDS001-EPDS001	2405250069S	05-25-2004	2020	TOXAPHENE	ND	MG/L	.003 MG/L

Recent RVOC Sample Results

Fac./	Sample	Date	An.	Analyte	Result	Unit	MCL
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Site	No.		Code				
EPDS001-EPDS001	2405250069V	05-25-2004	2981	1,1,1-TRICHLOROETHANE	ND	MG/L	.2 MG/L
EPDS001-EPDS001	2405250069V	05-25-2004	2985	1,1,2-TRICHLOROETHANE	ND	MG/L	.005 MG/L
EPDS001-EPDS001	2405250069V	05-25-2004	2977	1,1-DICHLOROETHYLENE	ND	MG/L	.007 MG/L
EPDS001-EPDS001	2405250069V	05-25-2004	2378	1,2,4-TRICHLOROBENZENE	ND	MG/L	.07 MG/L
EPDS001-EPDS001	2405250069V	05-25-2004	2980	1,2-DICHLOROETHANE	ND	MG/L	.005 MG/L
EPDS001-EPDS001	2405250069V	05-25-2004	2983	1,2-DICHLOROPROPANE	ND	MG/L	.005 MG/L
EPDS001-EPDS001	2405250069V	05-25-2004	2990	BENZENE	ND	MG/L	.005 MG/L
EPDS001-EPDS001	2405250069V	05-25-2004	2982	CARBON TETRACHLORIDE	ND	MG/L	.005 MG/L
EPDS001-EPDS001	2405250069V	05-25-2004	2989	CHLOROBENZENE	ND	MG/L	.1 MG/L
EPDS001-EPDS001	2405250069V	05-25-2004	2380	CIS-1,2-DICHLOROETHYLENE	ND	MG/L	.07 MG/L
EPDS001-EPDS001	2405250069V	05-25-2004	2964	DICHLOROMETHANE	ND	MG/L	.005 MG/L
EPDS001-EPDS001	2405250069V	05-25-2004	2992	ETHYLBENZENE	ND	MG/L	.7 MG/L
EPDS001-EPDS001	2405250069V	05-25-2004	2968	O-DICHLOROBENZENE	ND	MG/L	.6 MG/L
EPDS001-EPDS001	2405250069V	05-25-2004	2969	P-DICHLOROBENZENE	ND	MG/L	.075 MG/L
EPDS001-EPDS001	2405250069V	05-25-2004	2996	STYRENE	ND	MG/L	.1 MG/L
EPDS001-EPDS001	2405250069V	05-25-2004	2987	TETRACHLOROETHYLENE	ND	MG/L	.005 MG/L
EPDS001-EPDS001	2405250069V	05-25-2004	2991	TOLUENE	ND	MG/L	1 MG/L
EPDS001-EPDS001	2405250069V	05-25-2004	2979	TRANS-1,2-DICHLOROETHYLENE	ND	MG/L	.1 MG/L
EPDS001-EPDS001	2405250069V	05-25-2004	2984	TRICHLOROETHYLENE	ND	MG/L	.005 MG/L
EPDS001-EPDS001	2405250069V	05-25-2004	2976	VINYL CHLORIDE	ND		.002 MG/L
EPDS001-EPDS001	2405250069V	05-25-2004	2955	XYLENES, TOTAL	ND	MG/L	10 MG/L