Appendix E – Emergency Response Plan

- Public Water System Emergency Response Plan

Revised October 26, 2004, RGF

Public Water System Emergency Response Plan

HHS-R&L 24 hr Emergency number 402-499-6922

for

City of Wayne

Public Water System I.D. No.: NE3118104
Population Served: 5,500

Address: **PO Box 8**
Wayne, NE
68787

Phone: **402-375-5250**

Municipality: **City of Wayne**
County: **Wayne**

Prepared by: Jeff Brady
Title: Operator III
Signature: _____
Date Completed: March 28, 2008
Date Updated: February 17, 2011

Approved by:_____
Agency: _____
Signature: _____
Date: _____

Plan # 04-01-2008

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Section I – Introduction

1. Purpose

This emergency plan was developed as a guideline for the operators and administration of City of Wayne in order to minimize disruption of normal services to its consumers and to provide public health protection and safety during an emergency. Emergency response planning should be a coordinated and planned process. Proper planning can lessen the impact of an emergency. This plan was designed to address various emergency hazards that may occur in rural and small water systems.

2. Organization

Water Department policies are set by City Council. Large expenditures (over $1000.00) must be approved by City Administrator. Smaller purchases can be made by City employees.

During any type of emergency, the following persons will be in charge of the water system (contact in order indicated):

Order	Name	Position	**Phone Numbers** (include area code)				Radio Frequency (MHz)	E-Mail
			Office	Cellular	Pager	Home		
1	Jeff Brady	Operator III	402-375-5250	402-375-9129		402-375-1794	458.65	Jbrady@cityofwayne.org
2	Doug Echtenkamp	Operator III	402-375-5250	402-369-0723		402-375-2321	458.65	doug@cityofwayne.org
3	Adam Casey Junck	Operator I		402-369-0303		402-375-2898	458.65	cjunck@cityofwayne.org
4	Ken Chamberlin	Mayor	402-375-1733			402-375-1699	458.65	mayor@cityofwayne.org
5	Lowell Johnson	City Administrator	402-375-1733	402-369-2507		402-375-4525	458.65	cityadmin@cityofwayne.org
6	Garry Poutre	Utilities Superintendent	402-375-2896	402-369-1997		402-375-4693	458.65	eldist@cityofwayne.org

3. Plan Distribution

Copies of the emergency plan have been distributed to the following water supply personnel and other local and HHS-R&L officials as indicated below. In addition, a copy of this plan is kept at 205 Dearborn so that it can be easily accessed in the event of an emergency. All employees will be trained on implementation of the plan.

Plan Number	Distributed By	Received By	Date
#04-01-2008	Jeff Brady	City Administrator Lowell Johnson	4-5-11
. #04-01-2008	Jeff Brady	Wayne Police Dept. Dispatch	4-5-11
#04-01-2008	Jeff Brady	Wayne Fire Dept. (Tom Sievers fire chief)	4-5-11
#04-01-2008	Jeff Brady	City Hall	4-5-11
#04-01-2008	Jeff Brady	Wayne City Clerk Betty Mcguire	4-5-11
#04-01-2008	Jeff Brady	Utilities Superintendent Garry Poutre	4-5-11
#04-01-2008	Jeff Brady	Doug Echtenkamp	4-5-11
#04-01-2008	Jeff Brady	Casey Junck	4-5-11

4. Plan Updates

The emergency plan is updated as changes occur such as dictated by personnel, phone numbers, technology, system additions or modifications. A record of plan updates follows:

Change Number	Subject	Date	Entered By

Section II - Summary Description of the System

The following is a summary description of the system that should provide enough information about the system for use during an emergency and to assess and correct system vulnerabilities.

1. Location of Pertinent Information

Item	Location
Distribution System Map	205 Dearborn and 306 Pearl
Other Pertinent Maps	205 Dearborn and 306 Pearl
Daily Reports	205 Dearborn
Permits	205 Dearborn
Technical Manuals	205 Dearborn
O&M Plan	205 Dearborn
Start-Up/Shut-Down Procedures	205 Dearborn

2. Existing Source Information

A. Well Information

Not Applicable ☐

Well ID	Location	Well Depth	Specific Well Yield	Critical Water Level[1]
1.90104541	200 block N of 13th St. Emergency Only	135' Deep Static Level 99'		111 ft.
2.90104651	300 block N of 13th St. Emergency Only	125' Deep Static Level 87'		
3.90104701	1 mi. N on Hwy 15 & ½ mi. west	185' Deep Static Level 139.5'	595 GPM 311 gal. S.Y.	155 ft.
4.90104702	1 mi. N on Hwy 15, ½ mi. E. & 12 mi S.	103' Deep Static Level 55.25'	365 GPM 49.5 gal. S.Y.	65 ft.
5.90104881	6 mi N 1 mi W. & ½ mi S	253' Deep Static Level 119.5'	1050 GPM 50.3 gal. S.Y.	195 ft.
6.90104901	6 mi N 1 mi W.	262' Deep Static Level 135'	1107 GPM 119.9 gal. S.Y.	195 ft.
7. 9010420091p	6 mi N 3/4 mi W.	259' Deep Static Level 119.3'	1000GPM	195 ft

[1] Based upon well and aquifer characteristics.

B. Surface Water Sources

Not Applicable x

Location of primary intake and critical water level(s):

Location of alternate intake and critical water level(s):

C. Water Quality of the Source(s)

D. Description of Surrounding Area and Susceptibility to Contamination

Description of significant potential sources of contamination in the area (approximate 1 mile radius) and susceptibility to potential contamination (see Source Water Assessment if available):

Source ID	Pump Type	Manufacturer	H.P.	Capacity (gpm)	Phase, Voltage
90104541	Vertical Turbine	General Electric	50 H.P.	340 gpm	3 Phase 220/480 volt
90104651	Vertical Turbine	U. S. Electric	40 H.P.	360 gpm	3 Phase 220/240 volt
90104701	Submersible	Layne/Christiansen	60 H.P.	590 gpm	3 Phase 480 volt
90104702	Vertical Turbine	U. S. Electric	50 H.P.	365 gpm	3 Phase 480 volt
90104881	Vertical Turbine	U. S. Electric	125 H.P.	1050 gpm	3 Phase 480 volt
90104901	Vertical Turbine	U. S. Electric	125 H.P.	1150 gpm	3 Phase 480 volt
9010420091p	Vertical Turbine	Emerson	100 HP	1000 GPM	3 Phase 460 volt

(Note: Source ID includes well identification numbers as well as any other source {(ie., surface water intake pumps etc.)}

F. Interconnections

Information on the location of interconnection(s) to other Community or Non-Transient Non-Community public water supplies, type and size of interconnecting pipe, pumps and accessory equipment, meters at interconnection(s), normal pressures at the interconnection, volume of water available through the interconnection(s), type of agreement and approvals needed for use, procedures necessary to use interconnection, etc.

G. Other Emergency Sources
(including equipment needed to use the source)

H. Possible Future Sources of Water

New well to be installed possibly in the year 2009 6 miles north & ¾ of a mile west.

3. Treatment Information

A. Disinfection

Chemical(s) Used: _____

Type of Chemical Feed: _____

Location of Disinfection System: _____

Location of Chemical Storage: _____

(Note: See the Emergency Reference Table in Section III-4-D for Chemical Supplier Information) Attach MSDS sheets.

B. Other Treatment

Other Treatment Methods(s) Fluoridation

Chemical(s) Used: Hydrofluosilic Acid

Type of Chemical Feed: LMI Pumps

Treatment Chemicals and Storage At well sites

Laboratory Chemicals and Storage: _____

(Note: See the Emergency Reference Table in Section III-4-D for Chemical Supplier Information)

Also attach MSDS sheets on all chemicals used.

C. Other Applicable Information

(booster chlorinators, control systems, etc.)

4. Finished Water Storage

Name of Storage Unit	Location	Type	Capacity	Overflow Elevation
Stand Pipe	**NW Corner of Cemetery**	**Stand Pipe**	**750,000 gal**	**91'**
Hydropillar	**E. 14th St.**	**Elevated Tank**	**500,000 gal**	**141'**

5. Distribution System and Transmission Main(s) Information

Ductile Iron
Cast Iron
PVC (C900 & C909)
Asbestos

6. System Demand

Average daily demand is the system's average daily usage based upon operational records maintained during the past several years. Maximum daily demand is typically the highest daily demand experienced in recent years based upon operational records. System capacity is the maximum daily amount of water that the system is capable of treating or producing and distributing. Peak water demand is the maximum hourly demand that the system can sustain provided by storage or by production capability plus storage.

Average Daily Demand:	**.784**	**MGD**
Maximum Daily Demand:	**2.064**	**MGD**
System Capacity	**4.481**	**MGD**
Peak Demand	**186,720**	**GPH**

7. Power

Primary Power:	**NPPD**
Backup Power:	**City of Wayne Power Plant & Standby Generator**

8. Other Pertinent System Information

Other information about the system that could be useful during an emergency:

2 other portable generators 1-45 KW & 1-125 KW
1 well has PTO hook up (this well emergency status only #5)

Section III – Emergency Response Actions

The following are the action steps that will be followed for all emergency situations:

i. Take or direct any **immediate** response measures that are obviously needed to reduce risk to the public (see specific emergency response action below).
ii. Notify HHS-R&L and (if applicable) the system administration.
iii. Determine and implement other appropriate corrective actions to reduce and eliminate the effects of the emergency.
iv. Inform consumers of the emergency situation as soon as possible, and again as the status changes.

1. Description of Emergency Response Actions

Refer below to the response action(s) for the specified emergency:

A. Power Outage

Immediate Actions: 1. Notify NEPPD Power Emergency (402)375-1360
2. Notify Public
3. Implement back up power (Wayne Power Plant 402/375-2866)
Back up generator at Well #10 (90104901)
4. Continuously monitor the situation
5. If water pressure drops below 20 psi in more than 10% of the system
Contact State Field Rep (Rich Koenig)(402) 649-6243

Other Actions:

B. Prolonged Water Outage

Immediate Actions:

1. Notify Nebraska Field Rep. (Rich Koenig 402/ 649-6243)
2. Contact NeRWA for assistance if necessary (800) 842-8039
3. Notify system owner (Mayor Ken Chamberlin 402/375-1699) & Administrator
4. Notify the public and keep informed
5. Locate alternative water supply (bottled water from Norfolk Culligan Water 402/371-5950 & Ecowater Systems 402/371-1960 --Bulk Tank Water Trucks Associated Milk Producers 402/582-4221 Michael's Foods 402/287-2211)
6. Ration Water if necessary

Other Actions:

C. Transmission and/or Distribution System Failure (tanks, controls, piping, etc.)

Immediate Actions:

1. Notify Diggers Hotline (800)331-5666
2. Isolate problem (broken main, water tower)
3. If system loses pressure to more than 10% of the system Contact State field rep. (Rich Koenig 402/649-6243)
4. Notify public of the problem and keep them informed
5. Take special "Bacti" samples to insure the system is Safe for consumption
6. Chlorinate if necessary

Other Actions: Loss Of Water Storage

A. Notify State Field Rep. (Rich Koenig 402/649-6243)
B. Install pressure regulator on fire hydrant for pressure control
C. Isolate water system and start wells to insure system pressure
D. Contact NeRWA (800) 842-8039
E. Notify the public of situation and keep informed
F. Notify Fire Chief Robert Woehler (402) 369-1712

D. Treatment Equipment Failure

Immediate Actions: 1. Repair LMI pump if possible.
2. Call Hawkins Chemical for parts.
3. Change status of run rotations of wells.

Other Actions:

E. Source Pump Failure

Immediate Actions: Contact Layne Western 402 / 234 -1914 or cell (308) 870-0138
Sargent Irrigation 402 / 872-5125
Salmon Well Co. (402) 287-2236

Other Actions:

F. Loss of SCADA or Other Automated Controls

Immediate Actions: 1. Call HTM Service (800) 444-1625 Toms cell (402) 699-1884
2. Contact West E Con (402) 359-2127 Chris cell (402) 660-1884
Zach (402) 660-3884
3. Contact city electrician (402) 369-0944

Other Actions:

G. Contamination of Supply (including MCL violations)

Immediate Actions: 1. Notify public of the contamination and the procedures that need to be followed for their protection
2. Health & Human Services (Rich Koenig 402-649-6243)
3. Notify Nebraska Rural Water Assn. (Randy Hellbusch, Chancy Dempsey, Russ Topp, Barney Whatley (800) 842-8039
4. Take Water Samples to ensure water is safe for consumption
5. Take corrective action to fix the problem

Other Actions:

H. Chemical Incident At Facility

Immediate Actions: 1. Notify State Rep. Rich Koenig (402)649-6243
2. Contact for assistance if necessary NeRWA (800) 842-8039

Other Actions:

I. Drought

Immediate Actions: 1. Notify State Rep. Rich Koenig (402)649-6243
2. Contact for assistance if necessary NeRWA (800) 842-8039
3. Limit irrigation and unnecessary use of water.
4. Ration if necessary.

Other Actions:

J. Flood

Immediate Actions: 1. Ensure wells have a dike for protection
2. Inform local civil defense director of the situation
3. Inform Wayne County Sheriffs office
4. Inform State Field Rep. (Rich Koenig 402/649-6243)
5. Inform the public and keep them informed
6. Inform NeRWA and ask for assistance if needed (800)842-8039

Other Actions:

K. Severe Weather

Immediate Actions: 1. Check communications with the scada system.
2. Check water towers and wells.

Other Actions:

L. Fire at Water Supply System Facility

Immediate Actions: 1. Contact NE NPPD to have power disconnected
2. Isolate facility from distribution
3. Contact State field rep. Rich Koenig (402) 649-6243
4. Contact Mayor (402) 375-1278 & Administrator (402) 369-2507

Other Actions:

M. Hazardous Material Release (In Watershed or Recharge Area)

Immediate Actions: 1. Contact local law enforcement (402)375-2626
2. contact field rep. (Rich Koenig (402)649-6243
3. Notify system owner (Mayor Lois Shelton 402/375-1278)
4. Contact NeRWA for assistance (800)842-8039
5. Isolate affected system component if necessary (use alternative Well, isolate tower, etc.)
6. Determine if system has been tampered with (sanitary seal still Intact, vent screens still in place, anything broken or disturbed)
7. Follow primacy agency's instructions or recommendations
8. Notify public if necessary
9. Secure alternate drinking water source if necessary
10. Sample as instructed by primacy agency
11. Notify local health officials, Dr. Jim Lindau, (402)375-3333

Other Actions:

N. Terrorism or Vandalism (actual or suspected)

Immediate Actions: 1. Contact local law enforcement (402)375-2626
2. contact field rep. (Rich Koenig (402)649-6243
3.Notify system owner (Mayor Lois Shelton 402/375-1278)
4.Contact NeRWA for assistance (800)842-8039
5. Isolate affected system component if necessary (use alternative Well, isolate tower, etc.)
6. Determine if system has been tampered with (sanitary seal still Intact, vent screens still in place, anything broken or disturbed)
7. Follow primacy agency's instructions or recommendations
8.Notify public if necessary
9. Secure alternate drinking water source if necessary
10. Sample as instructed by primacy agency
11. Notify local health officials, Dr. Jim Lindau, (402)375-3333

Other Actions:

O. Earthquake

Immediate Actions:

Other Actions:

2. Work Order Log

As response activities are undertaken, authorized City personnel will keep a record of work activities using the work order log form below.

Work-Order Number	Crew	Assignment	Estimated Time of Repair	Assignment Made By	Completed By/Date

3. Emergency Reference Table

Refer to the table below for whom to contact during certain emergencies. The next table gives the phone numbers for each contact. Note that the supplier of water must notify HHS-R&L when water delivery is disrupted to 10% or more of the consumers. The supplier of water must not use water from any emergency source or stop disinfection or other treatment without receiving the approval of HHS-R&L.

In addition, the supplier of water must make public notification when a condition exists which according to HHS-R&L constitutes a public health hazard. The water supplier must also notify the chief administrative/elected official where the public water system is located and the local law enforcement department having jurisdiction.

Emergency	Emergency Responders	State & Local Agencies	Local Contacts	Chem. Suppliers	Equip. Repair & Supplies	Utilities	Bulk Water Suppliers	Media
Power Outage			X			X		
Prolonged Water Outage		X	X		X			X
Transmission/Distribution System Failure					X	X		X
Treatment Equipment Failure				X				
Source Pump Failure					X			
Loss of SCADA or Other Automated Controls					X			
Contamination of Supply		X	X			X	X	X
Chemical Incident at Facility		X		X	X			X
Terrorism/Vandalism		X						
Drought		X	X					X
Flood	X	X	X					X
Severe Weather	X		X					
Earthquake	X	X	X			X		
Fire		X	X			X		
Hazardous Material Release in Watershed or Recharge Area		X	X			X	X	X

4. Emergency Reference Table Contacts and Phone Numbers

A. Emergency Responders

ORGANIZATION	CONTACT NAME/TITLE	PHONE (DAY)	PHONE (NIGHT)	PAGER/EMAIL CELL PHONE

Fire Department	Robert Woehler	402/375-2626	402/375-2626	402/369-1712
Police Department	Lance Webster	402/375-2626	402/375-2626	402/369-1998
FBI Field Office (for terrorism or sabotage)				
Emergency Medical Service	Providence Medical Center	375-3800	375-3800	
DHHS-R&L	Field Rep. Rich Koenig	402/471-2122	**402-499-6922 24hr**	402/649-6243 richkoenig@dhhs.ne.
DHHS-R&L Office	Jack Daniel	402-471-0510	402-499-6922 24hr	jack.daniel@dhhs.ne.gov
National Spill Response Center	24 Hour Hotline	**1 (800) 424-8802**		
State (DEQ) Spill Hotline	24 Hour Hotline			
Poison Control	1-800-955-9119			
Water System Operators/Managers (also see table in Section I-2)	Lowell Johnson	402/375-1733	402/375-4525	402/369-2507
	Jeff Brady	402/375-1733	402/375-1794	402/375-9129
	Doug Echtenkamp	402/375-1733	402/375-2321	402/369-0723

B. State and Local Agencies Notification List

ORGANIZATION	CONTACT NAME/TITLE	PHONE (DAY)	PHONE (NIGHT)	PAGER/EMAIL CELL PHONE
DHHS R & L	Doug Woodbeck	**402-471-0521**		doug.woodbeck@dhhs.ne.gov
	Kristin Luebbe	**402-471-6571**		Kristin.luebbe@dhhs.ne.gov
Local County Dept. of Health	Northeast Public Health Dept.	402/375-2200		
Department of Environmental Quality	Regional Office -			
	24 Hour Spill Hotline			
State Emergency Management Office		**402-471-7425 24hr.**	1-877-297-2368	
Hazmat Hotline				
County Emergency Management Office				
Nebraska Rural Water Association	Clancy Dempsey	**800/842-8039**		Clancy@nrwa.org

C. Local Contact Notification List

ORGANIZATION	CONTACT NAME/TITLE	PHONE (DAY)	PHONE (NIGHT)	PAGER/E-MAIL CELL PHONE

Government Officials	Ken Chamberlin / Mayor	402/375-1733	402/375-1699	
	Lowell Johnson	402/375-1733	402/375-4525	402/369-2507
Hospitals	Providence Medical Center	402/375-3800		
	Mercy Medical Clinic	402/375-1600		
Pharmacy	Pamida Pharmacy	402/375-2079		
Priority Water Users (Those that are critically dependent upon water including schools, nursing homes, dialysis centers, institutions, Individuals, businesses, interconnected water systems, etc.)	U Save Pharmacy	402/375-2922		
	Providence Medical Center	402/375-3800		
	Careage of Wayne	402/375-1922		
	The Oaks	402/375-1500		
	Mercy Medical Clinic	402/375-1600		
	WSC	402/375-7000		
	Wayne High School	402/375-3150		
	Wayne Middle School	402/375-2230		
	Wayne Elementary School	402/375-3854		
	St. Mary's School	402/375-2337		
	Great Dane Trailers	402/375-5500		
	Gerhold Concrete	402/375-1101		
	Heritage Homes	402/375-4770		
	Region IV Northstar	402/375-4884		
Others				

D. Chemical Supplier Information

CHEMICAL	SUPPLIER	CONTACT INDIVIDUAL	PHONE (DAY)	PHONE (NIGHT)	PAGEREMAIL CELL PHONE
Hydroflusillic Acid	Hawkins Chemical	Brian Burgers	800/556-6290		605/321-4056
Granule Chlorine	Hawkins Chemical	Brian Burgers	800/556-6290		605/321-4056
Gas Chlorine	Hawkins Chemical	Brian Burgers	800/556-6290		605/321-4056

E. System Equipment Repair and Supplies Contact Information

ORGANIZATION	CONTACT NAME/TITLE	PHONE (DAY)	PHONE (NIGHT)	PAGER/E-MAIL CELL PHONE
Electrician	Chris Westergaard	402/259-2127	402/660-1884	402/660-1884
Plumber				
Pump Specialist	Layne Western (Steve)	402/660-7142		515/838-2222
Soil Excavator/Backhoe Operator	R & W Const.	402/375-3744	402/369-0049	402/369-0050
Equipment Rental (Power Generators)				
Equipment Rental (Chlorinators)	Hawkins Chemical (Brian)	800/556-6290		605/321-4056
Equipment Rental (Portable Fencing)				
Equipment Repairman				
SCADA Repair Service	West E Con (Zach)	402/259-2127		402/660-3884
Pump Supplier	Layne Western (Dan)	308/234-1914		402/980-6434
Well Drillers	Layne Western (Dan)	308/234-1914		402/980-6434
Pipe Supplier	Utility Equip. (Dustin)	800/383-5821		712/223-4394
Local/Regional Analytical Laboratory	State of Nebraska (	402/471-2122		

F. Utilities Contact Information

ORGANIZATION	CONTACT NAME/TITLE	PHONE (DAY)	PHONE (NIGHT)	PAGER/E-MAIL CELL PHONE
Electric Utility Company	City of Wayne (Garry)	402/375-2896		402/369-1997
Gas Utility Company	Aquila (Mike)	800/303-0752		402/369-0819
Sewer Utility Company	City of Wayne (Jeff)	402/375-5250	402/375-2626	402/375-9129
Telephone Utility Company	Quest (Dean Sextron)			402/750-1377
"Diggers Hotline", UFPO or local equivalent		(800)331-5666	(800)331-5666	(800)331-5666

G. Bulk Water Suppliers

ORGANIZATION	CONTACT NAME/TITLE	PHONE (DAY)	PHONE (NIGHT)	PAGER/E-MAIL CELL PHONE
Bulk Water Hauler				
Bottle Water Source	Culligan Water Company	402/371-5950		
	Ecowater Systems	402/371-1960		

H. Media Notification List

ORGANIZATION	CONTACT NAME/TITLE	PHONE (DAY)	PHONE (NIGHT)	PAGER/E-MAIL CELL PHONE
Designated Water System Spokesperson	Lowell Johnson	402/375-1733	402/375-4525	402/369-2507
Newspaper - Local	Wayne Herald	402/375-2600		
Newspaper – Regional/State	Omaha World Herald			
Radio	KTCH	402/375-3700		
Television	KTIV 4 Sioux City IA	712/239-4100		
	KCAU 9 Sioux City IA	712/277-2345		
	KMEG 14 Sioux City IA	712/277-3554		
	American Broadband Co.	402/375-1120		402/369-2240
Other				

Section IV – Consumer Notification

The City Administrator must make public notification when a condition exists which according to HHS-R&L constitutes a public health hazard. The Administrator must also notify the chief administrative/elected official (Lois Shelton, Mayor) where the public water system is located and the local law enforcement department having jurisdiction (Wayne Police Dept., Lance Webster).

Consumers will be notified as soon as possible of any emergency that potentially affects them. The public will be notified of emergencies that pose an immediate threat to health or safety through media outlets such as television, radio, and newspapers. A list of media contacts can be found in Section III–3-H. In addition, emergency notices will be posted in the following public places: City Hall, Library/Senior Center, Auditorium, Website. Critical users will be notified directly, if necessary. These are customers of the system who could be severely impacted immediately by a water system disruption, including schools, institutions, senior citizens complexes, water-dependent businesses, interconnected water systems, medical and dental clinics, restaurants, and individuals with home dialysis machines or other life support devices sensitive to water quality changes. A list of these can be found in Section III-3-C.

Examples of some public notifications follow:

DRINKING WATER WARNING:
water has high levels of nitrate

DO NOT GIVE THE WATER TO INFANTS UNDER 6 MONTHS OLD OR USE IT TO MAKE INFANT FORMULA

Water sample results received [date] showed nitrate levels of [level and units]. This is above the nitrate standard, or maximum contaminant level (MCL), of [state/federal MCL]. Nitrate in drinking water is a serious health concern for infants less than six months old; this includes pregnant women and nursing mothers because of the transfer of nitrate to the fetus or baby through the mothers milk or blood.

What should I do?

$ **DO NOT GIVE THE WATER TO INFANTS.** ***Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.*** Blue baby syndrome is indicated by blueness of the skin. Symptoms in infants can develop rapidly, with health deteriorating over a period of days. If symptoms occur, seek medical attention immediately.

$ Water, juice, and formula for children under six months of age should not be prepared with tap water. Bottled water or other water low in nitrates should be used for infants until further notice.

$ **DO NOT BOIL THE WATER.** Boiling, freezing, filtering, or letting water stand does not reduce the nitrate level. Excessive boiling can make the nitrates more concentrated, because nitrates remain behind when the water evaporates.

$ Adults and children older than six months can drink the tap water (nitrate is a concern for infants because they can't process nitrates in the same way adults can). However, if you are pregnant or have specific health concerns, you may wish to consult your doctor.

What happened? What is being done?

Nitrate in drinking water can come from natural, industrial, or agricultural sources (including septic systems and run-off). Levels of nitrate in drinking water can vary throughout the year. We'll let you know when the amount of nitrate is again below the limit.

Describe corrective action, seasonal fluctuations, and when system expects to return to compliance.

For more information, please contact at or .

This notice is being sent to you by , State Water System ID#:
Date distributed: .

DRINKING WATER WARNING:

water is contaminated with fecal coliform or *E. coli* bacteria

BOIL YOUR WATER BEFORE USING

Fecal coliform or E. coli bacteria were found in the water supply on . These bacteria can make you sick, and are a particular concern for people with weakened immune systems.

What should I do?

$ **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring all water to a rolling boil and let it boil for at least one minute then let it cool before using; or use bottled water. Boiled or bottled water should be used for drinking, making ice, brushing teeth, washing dishes, and food preparation **until further notice**. Boiling kills bacteria and other organisms in the water.

X *Fecal coliform or E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.*

$ The symptoms above are not caused only by organisms in drinking water. If you experience any of these symptoms and they persist, you may want to seek medical advice. People at increased risk should seek advice about drinking water from their health care providers.

What happened? What is being done?

Bacterial contamination can occur when increased run-off enters the drinking water source (for example, following heavy rains). It can also happen due to a break in the distribution system (pipes) or a failure in the water treatment process.

Describe corrective action. We will inform you when tests show no bacteria and you no longer need to boil your water. We anticipate resolving the problem within [estimated time frame].

For more information, please contact at or . General guidelines on ways to lessen the risk of infection by microbes are available from the EPA Safe Drinking Water Hotline at 1(800) 426-4791.

This notice is being sent to you by , State Water System ID#: .
Date distributed: .

DRINKING WATER WARNING:

BOIL YOUR WATER BEFORE USING

Disease-causing organisms have entered water supply.

These organisms are causing illness in people served by . We learned of a waterborne disease outbreak from on .

What should I do?

$ **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring all water to a rolling boil and let it boil for at least one minute then let it cool before using; or use bottled water. Boiled or bottled water should be used for drinking, making ice, brushing teeth, washing dishes, and food preparation until further notice. Boiling kills bacteria and other organisms in the water.

$ [Describe symptoms of the waterborne disease.] If you experience one or more of these symptoms and they persist, contact your doctor. People with severely compromised immune systems, infants, and some elderly may be at increased risk. These people should seek advice about drinking water from their health care providers.

What happened? What is being done?

Describe the outbreak, corrective action, and when the outbreak might end.

We will inform you when you no longer need to boil your water.

For more information, please contact at or . General guidelines on ways to lessen the risk of infection by microbes are available from the EPA Safe Drinking Water Hotline at 1(800) 426-4791.

This notice is being sent to you by , State Water System ID# .
Date distributed: .

DRINKING WATER WARNING:

has high turbidity levels

BOIL YOUR WATER BEFORE USING

The (PWS Name) routinely monitors your water for turbidity (cloudiness). This tells us whether we are effectively filtering the water supply. A water sample taken showed turbidity levels of [number] turbidity units. This is above the standard of turbidity units. Because of these high levels of turbidity, there is an increased chance that the water may contain disease-causing organisms.

What should I do?

$ **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring all water to a rolling boil and let it boil for at least one minute then let it cool before using; or use bottled water. Boiled or bottled water should be used for drinking, making ice, washing dishes, brushing teeth, and food preparation until further notice.

$ *Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease causing organisms. These organisms include bacteria, viruses, and parasites, which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.* People with severely compromised immune systems, infants, and some elderly may be at increased risk. These people should seek advice about drinking water from their health care providers.

$ The symptoms above are not caused only by organisms in drinking water. If you experience any of these symptoms and they persist, you may want to seek medical advice.

What happened? What is being done?

Describe reason for the high turbidity, corrective action, and when the system expects to return to compliance.

We will inform you when turbidity returns to appropriate levels and when you no longer need to boil your water.

For more information, please contact at or . General guidelines on ways to lessen the risk of infection by microbes are available from the EPA Safe Drinking Water Hotline at 1(800) 426-4791.

This notice is being sent to you by , State Water System ID#: .
Date distributed: .

DRINKING WATER PROBLEM CORRECTED

Customers of were notified on of a problem with our drinking water and were advised to describe recommended action. We are pleased to report that the problem has been corrected and that it is no longer necessary to describe recommended action. We apologize for any inconvenience and thank you for your patience.

Add further details here when appropriate.

As always, you may contact at or with any comments or questions.

This notice is being sent to you by , State Water System ID#: .

Date distributed: .

Section V Emergency Water Use Restrictions

1. Explanation and Authority

During periods of a drought, a major leak, a system failure, or excessive consumption beyond the capacity of the system, etc., the City Mayor has the capability to conserve and restrict water use based upon the local water system regulations found in The City of Wayne Municipal Code book. During times of drought or other problems that limit the availability of water, public notice of water use restrictions will be issued by: the Mayor of Wayne.

2. Restriction Stages

Following are the levels or stages of restrictions that will be applied, the conditions that generally will trigger them and the types of restrictions that are applied. The conditions that trigger various restriction stages could be based upon critical source water levels indicated in Section II-2-A or other conditions such as imminent loss of water or pressure.

Restriction Stage	Stage Trigger(s)	Restrictions
I	Critical Water Levels	Notify customers to conserve on water usage
		Restrict water usage for irrigation
	Well out of service	Notify customers to conserve on water usage
		Limit or not allow irrigation
II	Major leak	Notify customers to conserve on water usage
		Shut down area to a minimum pressure
	Main Break	Notify customers to conserve on water usage
III	Drought	Notify customers to conserve on water usage
		Limit or not allow irrigation
	Water Tower out of Service	Notify customers to conserve on water usage
		Restrict water usage for irrigation

Section VI – Communications

1. In the event of an emergency, the primary line of communication will be (check one):

- ☐ Telephone; 402/375-2626
- x Cellular Phone; 402/375-2507
- ☐ Radio System; 458.65 Hz
- ☐ Other: P.A. System over Fire Sirens

2. If the primary line of communication is not functional, the back-up line of communication will be (check one):

- ☐ Telephone; 402/375-1733
- ☐ Cellular Phone; 402/369-2507
- x Radio System; 458.65 Hz
- ☐ Other: P.A. System over Fire Sirens

3. Other lines of communication include:

4. Phone Service Emergency Provisions:

In the event that the phone lines are not functioning, the phone company will be informed. The operator in charge will also inquire how long the facility will be without phone service.

5. Specific Communication Instructions:

See the Organizational Structure in Section I-2 and the Emergency Reference Table in Section III-3 for phone numbers and radio use for key individuals.

Additional Instructions:

1. Communication Log

COMMUNICATION LOG			
Date	**Time**	**Request**	**Action Taken**

Section VII – Assessment of Available Equipment

1. Emergency Communications Equipment

Note: See Section I-2 (Organization Table) for telephone contacts.

A. CB Radios:

Number of Radios:	65
Location(s) of Radios:	Line Shop-11 Light Plant-5 Water/Waste-9 St. Dept.-12 City Hall-5 Police-23 Fire Dept.-

B. Cellular Phones:

Number of Cellular Phones:	
Location(s) of Cellular Phones:	Most all City employees have cell phones

C. Pagers:

Number of Pagers:	
Location(s) of Pagers:	

D. Other Communication Equipment Available:

We have Public Address system capability with our Fire Siren System.

2. Emergency Water Supply Equipment

A. Bulk Water Supply Truck

Contact for truck:

Location(s) that truck(s) will be
Set up during an emergency: Associated Milk Producers 402/582-4221

Michael's Foods 402/287-2211

B. Other Emergency Water Supply Equipment

Item	Location and Contact
2-3" Wachs Hydraulic Trash Pump	WWTP 205 Dearborn St. 402/375-5250
2" – gas powered Trash Pump	WWTP 205 Dearborn St. 402/375-5250
2" – Gas powered Trash Pump	St. Shop 207 Fairgrounds Ave. 402/375-1300
Wachs Hydraulic Valve Exerciser	WWTP 205 Dearborn St. 402/375-5250

C. Parts Available for Emergency Interconnections

Item	Location and Contact

3. Power Supply Equipment

A. Power Sources

Primary Power Source: City of Wayne & NPPD

Alternate Power Sources: City of Wayne generation plant Portable generators

Location of Fuel: Zach Oil 310 S. Main St. Wayne, 402/375-2121
Dave's cell 375-0349

B. Generators

Make/Model	Phase/ Voltage/ Amps	Contact Individual	Phone No.	Location of Storage	Location of Use
2007 Ingersoll Rand G125 KW	125 KW Multi Voltage	Tim Sutton	402/375-2896	Line Shop	
2007 SDMA R145UC2	45 KW Multi Voltage	Tim Sutton	402/375-2896	Line Shop	
2002 Olympian D200P4	200 KW 277/480 Volts	Jeff Brady	402/375-5250	Well #10 6mi. N 1 mi. W	Well #10 6mi. N 1 mi. W
Cummings				Well #11 6mi N ¾ mi W	Well #11 6mi N ¾ mi W

4. Vehicles and Construction Equipment

A. Pickup Trucks, Vans, and other Vehicles

Make and Model	4x4? Yes	4x4? No	Owner	Phone Number	Location of Vehicle and Keys
2008 F250 Ford	x	☐	City of Wayne	402/3755250	WWTP 205 Dearborn
2001 3500 Chevrolet	x	☐	City of Wayne	402/3755250	207 Fairgrounds Ave.
1995 1500 GMC	x	☐	City of Wayne	402/3755250	WWTP 205 Dearborn
	☐	☐			

4. Vehicles and Construction Equipment

B. Dump Trucks

Make and Model	Capacity (tons)	Owner	Phone Number	Location of Vehicle and Keys
2000 FL80 Freightliner	8 Tons	City of Wayne	402/375-1300	St. Shop 207 Fairgrounds Ave.
2002 C8500 Chevrolet	8 Tons	City of Wayne	402/375-1300	St. Shop 207 Fairgrounds Ave.
1977 C60 GMC	8 Tons	City of Wayne	402/375-1300	St. Shop 207 Fairgrounds Ave.
1971 5500 GMC	8 Tons	City of Wayne	402/375-1300	St. Shop 207 Fairgrounds Ave.

C. Construction Equipment

Item (include make/model)	Owner	Phone Number	Location of Item
1999 310SE John Deere Backhoe	City of Wayne	402/375-2896	Building North of the Line Shop
2007 544J John Deere Loader	City of Wayne	402/375-1300	St. Shop 207 Fairgrounds Ave.
1990 926E Caterpillar Loader	City of Wayne	402/375-1300	St. Shop 207 Fairgrounds Ave.
5300 John Deere 4WD Tractor	City of Wayne	402/375-1300	St. Shop 207 Fairgrounds Ave.
Target Cement Saw	City of Wayne	402/375-1300	St. Shop 207 Fairgrounds Ave.

5. Spare Parts for Water Source

A. Spare Pump(s):

Pump Type	Manufacturer	H.P.	Capacity (gpm)	Phase, Voltage

B. List of Spare Parts for Pump(s) and Well(s):

Part	Location

6. Spare Parts for the Distribution System

A. List of Spare Piping

Part	Location
55’ of 16” Ductile Iron	Husker Building 201 Windom St.
33’ of 4” C900	Husker Building 201 Windom St.
40’ of 8” C900	Husker Building 201 Windom St.
125’ of 2” C900	Husker Building 201 Windom St.
12’ of 8” Ductile Iron	Husker Building 201 Windom St.
80’ of 6” C909	Husker Building 201 Windom St.

B. List of Spare Valves

Part	Location
4” Mueller Valve	Husker Building 201 Windom St.
4-6” Mueller Valve	Husker Building 201 Windom St.
2-8” Mueller Valve	Husker Building 201 Windom St.

C. Other Parts Available (Distribution System)

Part	Location
S.S. Repair Clamps Multi Sizes 4” Thru 16”	Husker Building 201 Windom St.
4” & 6” Dresser Couplings	Husker Building 201 Windom St.
4,6,8” HyMax Coupling	Husker Building 201 Windom St.
Fire Hydrant Repair Kits	Husker Building 201 Windom St.
Fire Hydrant Extension Kits	Husker Building 201 Windom St.
Main Valve Boxes & Extensions	Husker Building 201 Windom St.
Fire Hydrants old & new	WWTP & New Water Tower

7. Spare Parts for Treatment

A. Spare Chemical Feed Pump(s)

Manufacturer	Model	Location of Spare
Liquid Metronics Inc.	A341-150FS	WWTP 205 Dearborn Ave.

List Spare Parts for Feed Pump:	Location:

B. Reserve Chemicals

Location of reserve supply of chemicals:

Bulk Fluoride in all Well Houses #6-140 gal. #7-100 gal. #9-150 gal. #10-150 gal. #11 140 gal.- to be transferred into “Day Tanks”

8. Miscellaneous Parts for the System

A. Additional Parts Not Listed Above

Part:	Location:

Section VIII – Recovery

Returning to normal operations is vital to rapid restoration of clean, safe water to the community and is essential to the assessment and recovery process. The following is a checklist of actions to be taken during the recovery period. A copy of this checklist will be kept for each water supply emergency event. Also included is a preliminary damage assessment to be used in the recovery process.

1. ASSESSMENT & RECOVERY PERIOD CHECKLIST

- ☐ Perform in-depth damage assessment of system to determine long-term effects of damaged areas (use assessment form below). Prepare a preliminary damage report.
- ☐ Notify your local health department and HHS-R&L of system status and situation.
- ☐ Will there be a need to use mutual aid agreements and/or implement standby contracts or other emergency agreements for equipment and operations?
- ☐ Prepare written documentation of emergency work performed for possible compensation by emergency agencies. Make sure that crews make a record of work effort, written logs (see Work Order Log in Section III) and take pictures. This will all be helpful in recovery of funds.
- ☐ After completion of emergency repairs, rest the crews and return, if possible, to more normal work schedules.
- ☐ Notify appropriate insurance carriers. Provide written and photo documentation of damage.
- ☐ Assist in the survey of emergency repairs and scheduling of permanent repairs.
- ☐ Assist in the inventory of repair supplies and replacement stock.
- ☐ Servicing of emergency equipment, when able.
(oil changes, lubrication, etc.)
- ☐ Make sure the public is kept informed throughout the extent of the emergency.

2. PRELIMINARY DAMAGE ASSESSMENT

General Overview

☐ Determine need to repair, replace, or abandon facilities

☐ Estimate cost to repair damage

☐ Evacuate buildings in danger of collapse

Confirm that field crew does the following:

☐ Check for structural damage

Treatment Plants:

☐ Check if power is available and condition of mechanical and electrical equipment

☐ Check for chemical spills or releases

☐ Closes and tags damaged facilities; and equipment

Tanks:

☐ Check for evidence of failure of subbase

Reservoirs:

Check for:

☐ Leaks ☐ Cracks ☐ Seepage ☐ Broken inlet/outlet pipes, underdrains

☐ Landslides ☐ Check for buckling ☐ Embankment slump

Distribution System:

Check for:

☐ Leaks ☐ Breaks ☐ Pressure loss in lines ☐ Cross-connections

☐ Check mechanical couplings ☐ Lower water levels to reduce possibility of structural damage

Wells:

☐ Check for physical damage to facilities

☐ Name, address, phone # for private lab:

☐ Check power source

☐ Test for contamination

☐ Check for pump or motor failure

Following the Damage Assessment notify HHS-R&L of the findings.

Section IX –Evaluation

At the conclusion of the water supply emergency event, will assemble and prepare an after-event evaluation report. This report assesses the actions and responses to an emergency. A sample form for this evaluation report follows:

1. Evaluation Report Form

Introduction

- Emergency Declaration
- Purpose of Report
- Emergency Mitigation Planning
- History

Description of Emergency

- Geography
- Chronology
- Damages and Impact
- Statistics

Recommendations

- Issue
- Background
- Recommendation
- Lead
- Support
- Funding
- Schedule

Appendices

- Maps
- List of Participants