

RESOLUTION 2015 - 2

WHEREAS, the availability of a safe and pure source of water for the citizens of the City of Gothenburg is of vital importance; and

WHEREAS, the Nebraska Legislature has promulgated regulations requiring that cities formulate a water emergency plan, at Title 179, Chapter 2, Section 008.01 (C); and

WHEREAS, the City Council of Gothenburg has reviewed the Water Emergency Plan set forth on the attached Schedule.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GOTHENBURG, DAWSON COUNTY, NEBRASKA, as follows:

Section 1: The City of Gothenburg Water Emergency Plan, set forth on the schedule attached hereto, and incorporated herein by this reference, is hereby adopted and shall be in full force and effect from and after the 17<sup>th</sup> day of February, 2015.

Section 2: The attached Water Emergency Plan should be distributed as set forth on page ~~17~~<sup>9</sup>, and implemented immediately.

PASSED AND APPROVED THIS 17<sup>th</sup> day of February, 2015.

CITY OF GOTHENBURG,  
DAWSON COUNTY, NEBRASKA

By Joyce E. Hudson  
Joyce Hudson, Mayor

ATTEST:

Connie G. Dalrymple  
Connie Dalrymple, City Clerk

APPROVED AS TO FORM:

\_\_\_\_\_  
Michael Bacon, City Attorney

# City of Gothenburg

## Water Emergency Plan

Water is our most vital resource. As such, the City of Gothenburg has formulated an emergency plan to protect that resource. This plan has been prepared as required by Title 179, Chapter 2, 008.01C of the Nebraska State Statutes.

**Any health related contamination or any issues that may affect the public water supply system of the City of Gothenburg should be reported immediately to the following personnel in order of listing:**

Shane Gruber	City Services Director	(308) 537-2027 or 529-2481
Bruce Clymer	City Administrator	(308) 537-3677 or 537-3518
City Office	(During Working Hours)	(308) 537-3668 or 537-3677
Police Dispatcher	(After Hours)	(308) 537-3608
Department of Health	24-hour Emergency Number	(402) 499-6922

The City Services Director shall be responsible for notifying the City Administrator; and the Nebraska Department of Health when necessary. If the City Administrator cannot be reached, the Director shall then contact the Mayor.

The City Administrator shall contact the Mayor, City Council, Clerk and City Attorney.

**The following personnel should be contacted in order of listing regarding any issues in the supply system of the City of Gothenburg such as wells, water tower, water mains, fire hydrants or valves:**

City Office	(During Working Hours)	(308) 537-3668 or 537-3677
Police Dispatcher	(After Hours)	(308) 537-3608
Shane Gruber	City Services Director	(308) 537-2027 or 529-2481
Bruce Clymer	City Administrator	(308) 537-3677, or 529-1161
Tim Lauer	Parks Manager	(308) 529-3384
Corey Cooper	Water/Sewer	(308) 537-4222
Allen Weidman	Water/Sewer	(308) 640-0504
Eugene Darling	Water/Sewer	(308) 537-6071
Nolan Golter	Mechanic	(308) 529-2573
Shawn Herfel	Streets/Utility	(308) 325-5421
Rob Will	Streets/Utility	(308) 529-7585
Mike Peters	WWTP Operator	(308) 627-5347

# Water Supply General Information Sheet

Utility Name: City of Gothenburg  
 Public Water Supply ID Number (PWSID): NE3104702  
 Water Source: Groundwater  
 Population Served: 3578  
 Water Storage Tank Capacity: 500,000 Gallons  
 Average Daily Pumpage (Gallons per Day): 1,077,463  
 Treatment Processes: None  
 System Phone Number: 308-537-3668  
 Fax: 308-537-3609  
 E-mail: [sgruber@cityofgothenburg.org](mailto:sgruber@cityofgothenburg.org) or [bclymer@cityofgothenburg.org](mailto:bclymer@cityofgothenburg.org)  
 System's Designated Operator in Charge: Shane Gruber  
 Backup Operators:  
 Tim Lauer, Corey Cooper, Allen Weidman, Eugene Darling, Nolan Golter, Shawn Herfel, Rob Will and Mike Peters

HHSS-R&L Field Rep: Tony Martinez (308) 535-8387 or (308) 530-4651  
 HHSS-R&L (Lincoln): Andy, Field Services (402) 471-0521  
 Emergency – 24 hours (402) 499-6922  
 Howard Isaacs, Compliance (402) 471-0930  
 Jack Daniel, Administrator (402) 471-0510

## Emergency Telephone Notification Listing

### Basic Emergency Response Team

Position	Name	Work	Pager	Cellular	Fax	Home
City Services Director	Shane Gruber	308-537-2027	None	308-529-2481	308-537-3609	308-529-2481
City Administrator	Bruce Clymer	308-537-3677	None	308-529-1161	308-537-3609	308-537-3518
Mayor	Joyce Hudson	308-537-7151	None	308-529-1522	None	308-537-2773

### Local Officials Outside the Utility

Position	Name	Work	Pager	Cellular	Fax	Home
Council President	Jeff Kennedy	308-537-7810	None	None	None	308-930-0212
Electrical Foreman	Nate Baker	308-537-2027	None	308-529-1129	308-537-2027	308-529-1129
Police Chief	Randy Olson	308-537-3608	None	308-529-1160	308-537-3609	308-537-4414

Local Officials Outside the Utility (Continued)

Position	Name	Work	Pager	Cellular	Fax	Home
City Physician	Dr. Craig Bartruff	308-537-3673	None	None	None	308-537-7528
County Emg. Coordinator	Brian Woldt	308-324-2070	800-403-3760	308-325-0932	None	308-784-4430
Fire Chief	Mark Ballmer	308-537-7141	Police Dispatch	None	308-537-3608	308-2576
City Attorney	Mike Bacon	308-537-7161	None	308-529-1429	308-537-7162	308-537-7461
Engineer	Reed Miller	800-658-4206	None	308-380-6994	308-234-1146	308-237-7406
City Clerk	Connie Dalrymple	308-537-3677	None		308-537-3609	308-537-3920
School Superintendent	Michael Teahon	308-537-3651	None	None	308-537-3963	308-537-4493

Other Contacts

Position	Name	Work	Pager	Cellular	Fax	Home
State Health Department	Tony Martinez	308-535-8387		308-530-4651	308-535-8175	
Nebraska Rural Water	Randy Hellbusch	402-461-2525		402-443-5353		
League of Municipalities	Lash Chafin	402-476-2829				
Midwest Assisstance Program	Tim Rutledge	402-862-3227		402-239-8392		
Red Cross	Kay Grinde	308-784-4343	800-689-8595	308-325-3137		308-784-4409
Gas Utility	Source Gas	800-563-0012	308-537-7554			
KRVN	Dave Shcroeder	308-324-2371				308-324-5902
KNOP	Jacque Harms	308-532-2222				
Culligan		308-784-2222				
Sargent Irrigation	Garry McCracken	308-872-6451		308-870-2456		

## System Information

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Total Service Connections: 1,515      Residential Connections: 1,321  
 Commercial Connections: 184      Industrial Connections: 10

DWR Well Registration Number	DOH Well Registration Number	City Identification Number	Location	Pumping Capacity (GPM)	HP	Depth (Feet)
*A-10615A	24702721	72-1	16 <sup>th</sup> and Ave. G	1,000	100	175
A-10615D	24702722	72-2	7 <sup>th</sup> and Cottonwood	1,000	100	186
G-72329	247002861	86-1	20 <sup>th</sup> and Ave. A	1,200	100	398
A-10615C	24702901	90-1	1100 22 <sup>nd</sup> Street	1,140	100	420

\*\* NOTE: A-10615A is for Emergency Use Only – See Attachment 3

Range of Production: 4,000 GPM to 1,000 GPM  
 Average Summer Daily Demand: 2.8 MGD  
 Peak Daily Demand: 3.7 MGD  
 Average Winter Daily Demand: 0.626 MGD  
 System Total Storage Capacity: 0.5 MGD

Water Tower Location: 1100 22<sup>nd</sup> Street  
 Manufacturer: Pittsburgh – Des Moines Steel Company  
 Capacity: 500,000 gallons  
 Water Level Settings: High-500,000 Gal. 100%      Low-200,000 Gal 40%  
 Sensor Elevation: 2734 feet  
 Sensor Location: GMV 90-1 Well House  
 Overflow Elevation: 2734.5 feet  
 Date Built: 1969  
 Last Date Inspected: 2013

## Priority of Service

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- Fire Protection
- Hospitals and nursing homes
- Domestic (for limited use during the emergency)
- Commercial
- Industrial

In the event of a power failure, the following actions should be followed:

1. Check with Gothenburg Dispatch and/or the electrical department to determine the possible length of time the outage will be.
2. If it is determined that there is a need for emergency backup of the well system, the natural gas driven motors at wells 72-2 and 90-1 shall be turned on.
3. Once power has been restored, these wells shall be returned to their normal operating mode.

Procedures for using the natural gas driven motors shall be as follows:

#### GMW 72-2 BACK-UP MOTOR OPERATING PROCEDURE

##### START UP:

1. Check the Gas Motor over: oil, water, and general condition.
2. **Turn the main disconnect switch to ON on the gauge panel.**
3. **Turn on Natural Gas Valve with crescent Wrench.**
4. Close **water main valve** slowly until shut off.
5. Turn the **hand/off/auto** switch on the electric well motor panel to **OFF**.
6. Turn **main electrical disconnect** handle to the **OFF** position.
7. Open the red control panel on gas motor and turn **test/off/auto** toggle switch to **AUTO**.
8. Turn the gas motor **start/stop contact** toggle switch on the exterior of control panel to **ON**.
9. Gas motor should start and warm up for approximately **110** seconds. Green light in control panel should be on, **engine running**.
10. After warm up, the gas motor should engage the clutch and start the well, increasing its speed to **2,000** RPM. Close the control panel.
11. Slowly begin opening the **main water valve** until fully open and check the water meter for flow.

*If you have any problems, contact Shane Gruber or Tim Lauer.*

##### SHUT DOWN:

1. Close the **water main valve** slowly.
2. Turn gas motor **start/stop contact** toggle switch on the exterior of the Gas Motor Control Panel to **OFF**.
3. The gas motor should start to slow down to idle.
4. The clutch should then release after **42** seconds when the Gas Motor is idling.
5. The gas motor should idle for approximately **110** seconds to cool down and then shut off.
6. Open the gas motor control panel and turn the **test/off/auto** toggle switch to **OFF**.
7. Close the red control panel.
8. **Turn off natural gas valve with crescent wrench.**
9. **Turn the main disconnect to OFF on the gauge panel.**
10. Turn the **main electrical disconnect** handle to the **ON** position.
11. Turn the **hand/off/auto** switch on the Electric Well Motor Panel to **hand** to start the electric motor.
12. Slowly begin opening the **main water valve** until fully open and check the water meter for flow.

*If you have any problems, contact Shane Gruber or Tim Lauer.*

## GMW 90-1 BACK-UP MOTOR OPERATING PROCEDURE

### START UP:

1. Check the gas motor over: oil, water, and overall condition.
2. **Turn on natural gas valve with crescent wrench.**
3. If the electric well motor is not running, then proceed to # 5. If the electric well motor is running, proceed to # 4.
4. With the electric well motor running, place the **tank master pump control** gauge into its **stop delay mode**. This allows the Clay valve and the electric motor to run through their cycle and shut down. Once the electric motor and Clay valve are off, proceed to #5.
5. Turn the **hand/off/auto** switch on the electric motor panel to **OFF**.
6. Turn the **main electrical disconnect** handle on the electric motor panel to the **OFF** position.
7. Go back to the gas motor and open the red control panel to switch the **TEST/OFF/AUTO** toggle switch to the **AUTO** position. Close the panel door.
8. Well operation will now work off of the **MERCOID PUMP CONTROL** in the well house. Approximate settings for it are **START-50 psi – STOP – 58 psi.**
9. If the Water Tower is calling for water on the **MERCOID PUMP CONTROL** setting, the Gas Motor will start and warm up for approximately **110** seconds.
10. After the warm up, the clutch should engage, the Gas Motor should start speeding up, and the Clay Valve should start to open.
11. When the Gas Motor reaches approximately **2000** RPM, the Clay Valve should continue to open until it is completed, and the Water Meter is showing flow.
12. When the Water Tower stops calling for water on the **MERCOID PUMP CONTROL** setting, the Gas Motor will start to slow down, the Clay Valve will start to close and after approximately **125** seconds the clutch will release.
13. The Gas Motor will idle for approximately **150** seconds and the Clay Valve should be closed.
14. The Gas Motor will shut off and be ready for start up if the Water Tower calls for water.

*If you have any problems, contact Shane Gruber or Tim Lauer.*

### SHUT DOWN:

1. If the well is pumping and the gas motor is running, let them finish filling the Water Tower and proceed to #3 when the gas motor is shut completely off.
2. If the well is not pumping and the gas motor is shut completely off, then proceed to #3.
3. Open the red control panel on the gas motor and switch the **TEST/OFF/AUTO** toggle switch to the **OFF** positions. Close the panel door.
4. **Turn off Natural Gas Valve with the Crescent Wrench.**
5. Turn the **MAIN ELECTRICAL DISCONNENET** handle on the Electric Motor Panel to the **ON** position
6. Turn the **HAND/OFF/AUTO** switch on the Electric Motor Panel to **AUTO**.
7. The Well will now operate on the **Electric Motor** and the **TANK MASTER PUMP CONTROL**.

*If you have any problems, contact Shane Gruber or Tim Lauer.*

# **ATTENTION!**

Normal operation requires that **GMW 86-1** and/or **GMW 90-1** to be running when the Water Tower is at **50% of capacity or less**. If the Water Tower is down to **30%** and the two above wells are not running or they are not keeping up with the demand for water, immediately contact the Water/Sewer Utility Person ON-CALL or contact

**Shane Gruber - 529-2481,**  
**or Tim Lauer - 529-3384.**



## Natural Disasters

Use a combination of the above procedures as needed depending upon the type of disaster and what parts of the system are affected.

## Chemical Pumps

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The City has installed chemical pumps in all of the wells. These pumps may be used to inject chlorine into the water system if required by the presence of bacteriological contamination. Rules of injection shall be as follows:

1. Receive notification from the HHS of the need to chlorinate the system due to contamination.
2. Work with HHS representative to insure proper injection of chlorine into the system.

Chemical Pump Locations: Well Houses 72-1, 72-2, 86-1, 90-1  
Vendor: Raines and Associates, Inc.  
14243 "S" Street  
Omaha, NE 68137  
Phone: 1-402-895-6336  
Fax: 1-402-895-5324  
Type of Pumps: LMI A771-150FS Metering Pump  
Capacity of Pump: 0.0 to 0.42 Gallons/Hour at 140 PSI  
Analog to Digital Converter: LMI MP-100  
Corporation Stop and  
Nozzle Assembly: LMI #10998  
Wall Mount Bracket: #34643

## Water Shortage

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In the case of a water shortage, the following shall occur: See attachment #4

## Reporting Requirements

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Any Condition that requires reporting than an emergency exists shall refer to Annex A-1, Annex A-2 and Annex A-4 of this plan.

## Appendices

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Attached under the appendices are various amounts of information to be used for reference is the City of Gothenburg is faced with a water emergency.

## Location of Emergency Plan Copies

Agency	Person	Phone	Location	Copy #
DHHS	Tony Martinez	308-535-8387	200 S. Silber North Platte, NE 69101	1
County Emergency Coordinator	Brian Woldt	308-324-2070	709 N. Grant Lexington, NE 68850	2
City of Gothenburg	Bruce Clymer	308-537-3677	409 9 <sup>th</sup> Street	3
City of Gothenburg	Shane Gruber	308-537-2027	1112 Avenue L	4
City of Gothenburg	Connie Dalrymple	308-537-3677	409 9 <sup>th</sup> Street	5
Nebraska Rural Water	Craig Matulha Deputy Circuit Rider	800-842-8039	555 Commercial Park Dr. Wahoo, NE 68066-9750	6
Gothenburg Police Dept.	Randy Olson	308-537-3608	405 9 <sup>th</sup> Street Gothenburg, NE 69138	7
City Wells	Shane Gruber		All well locations	8, 9, 10, 11

# City of Gothenburg

## Water System Inventory

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- Well 72-1
- Well 72-2
- Well 86-1
- Well 90-1
- 500,000 Gallon Elevated Storage Tank
- 194 Blocks Cast-iron Water Main = 67,900 Ft. = 13 Miles
- 90 Blocks Transit Water Main = 31,500 Ft. = 6 Miles
- 55 Blocks PVC Water Main = 19,250 Ft. = 4 Miles
- 170 Fire Hydrants
- 294 Water Main Valves
- 1,321 Residential Service Connections 389,048,160 Gallons
- 184 Commercial Service Connections 54,190,290 Gallons
- 10 Industrial Service Connections 2,945,550 Gallons /
- 1,515 Total Service Connections 446,184,000 Gallons
- 4 - Electronic Metering Pumps
- 1 – Fischer XLT-20 CE Leak Detector
- Trench Shoring
- Backhoe
- Tapping Machine
- Loader
- 2 – Five Yard Dump Trucks
- 3 – Water Service Pickups
- 1 - Diesel Generator for lighting and or backup power
- 2 - Backup Natural Gas Power Units
- Assortment of many hand tools

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This plan has been approved by Resolution \_\_\_\_\_ of the Gothenburg City Council.

Passed and approved on this day \_\_\_\_\_, 2015.

Signed:

\_\_\_\_\_  
Mayor Joyce Hudson

Attest:

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Connie Dalrymple, City Clerk

## Attachments

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Attachment 1	Map for taking water tower out of service
Attachment 2	City of Gothenburg Wellhead Protection Maps
Attachment 3	Notice Regarding Use of 72-1 for Emergency Use
Attachment 4	Ordinance #881- Water Conservation, drought, emergency and shortage contingency plan.

## Annexes

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Annex A-1	Conditions requiring that an emergency exists
Annex A-2	Public Drinking Water Supply Emergency Notification Form
Annex A-4	Preliminary Damage Assessment Form

## Appendices

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Appendix A-3.2	Nebraska Natural Resource District Boundaries
Appendix A-3.3	Nebraska Department of Roads Districts
Appendix A-3.4	County Emergency Coordinators
Appendix B-1.1	American Red Cross
Appendix B-1.2	Nebraska Rural Electric Association Phone Listings
Appendix C-1	Chemical Suppliers
Appendix C-2	Bottled Water
Appendix C-3	Commercial Ice Suppliers
Appendix D-1	Air Compressors
Appendix D-2	Chemical Feed Equipment
Appendix D-3	Portable Generators
Appendix D-6	Pipe & Water System Equipment
Appendix D-8	Sandbags
Appendix E-1	Consulting Engineers
Appendix E-2	Heavy Equipment
Appendix E-3	Laboratories – Testing (Drinking Water)
Appendix E-4	Electric Motor Repair Contractors
Appendix E-6	Pumps – Service & Repair Contractors
Appendix E-7	Trucks & Bulk Water Trucks
Appendix E-9	Well Drillers
Appendix G-1	Transportation Resources
Appendix H-1/6	Radio and TV Stations
Appendix H-2/2	Nebraska Newspapers