

RESOLUTION 2018 - 5

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 6<sup>th</sup> day of March, 2018.

Section 2: The attached Water Emergency Plan should be distributed as set forth on page 9, and implemented immediately.

PASSED AND APPROVED THIS 6<sup>th</sup> DAY OF MARCH, 2018

CITY OF GOTHENBURG,  
DAWSON COUNTY, NEBRASKA

By Joyce E. Hudson  
Joyce Hudson, Mayor

ATTEST:

Brandi Kloeping  
Brandi Kloeping, 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
Shawn Herfel	Water/Sewer	(308) 325-5421
Nolan Golter	Mechanic	(308) 529-2573
Mike Johnston	Streets/Utility	(308) 529-0314
Casey Ross	Streets/Utility	(308) 529-2128
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, 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 Kahle, Field Services (402) 471-0521  
 Emergency – 24 hours (402) 499-6922  
 Becky Schuerman, Compliance (402) 471-0930  
 Howard Isaacs, 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. Garret Shaw	308-537-3661	None	None	None	
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	308-529-2972	308-537-3608	308-2576
City Attorney	Mike Bacon	308-537-7161	None	308-529-1492	308-537-7162	308-537-7461
Engineer	Reed Miller	800-658-4206	None	308-380-6994	308-234-1146	308-237-7406
City Clerk	Brandi Kloepping	308-537-3677	None	308-0107	308-537-3609	308-537-9021
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	Blackhills Energy	888-890-5554				Emergency 800-694-8989
KRVN	Dave Shroeder	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: 2016

## Priority of Service

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

## Possible Emergencies and Disasters

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### Chemical or Bacteriological Contamination:

1. Notify the Nebraska Department of Health (402-499-6922 or names on emergency contact information sheet).
2. Locate, identify and isolate the source of contamination.
3. Notify all residents that are affected through radio, bank sign, newspaper and/or door-to-door communication. **If an MCL violation poses an acute (immediate) health risk, KRVN and KNOP TV must be notified within 72 hours.**
4. Call NDOH for sample bottles.
5. Flush and Disinfect.
6. When clear, notify all residents through proper communication such as radios and newspaper.

### Taking the Water Tower Out of Service:

1. Put PSI relief valve on fire hydrant at Ave. F and Northhaven Drive
2. Turn on wells: 72-2 and 86-1
3. Turn off wells: 90-1
4. Turn off 8" valve west of fire hydrant to main (Attachment 1)
5. Turn off 12" valve south of one in pit (Attachment 1)

### Water Main or Service Line Breaks/Construction Accidents

1. Locate Leak
2. Call Emergency Locate: 1-800-331-5666 or 811: ID#308-529-2481
3. If necessary, notify City Services Director or City Administrator in order of listing for damage assessment and/or coordination of repairs.
4. Check size and/or location on water map.
5. Put out signs and barricades, if necessary.
6. If possible, inform customers of the problem, that the water will be shut off, and the expected time of when the problem will be resolved.
7. Isolate leak using system valves; dig up; and repair and/or replace pipe.
8. Flush out pipe and if necessary chlorinate pipe.
9. Return water line to service.

Personnel trained in confined space entry and trench safety:

- Tim Lauer, Corey Cooper, Allen Weidman, Casey Ross, Nolan Golter, Shawn Herfel, Rob Will, Mike Johnston and Mike Peters

## Power Failure:

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:

01. **Contact Shane (308-529-2481) to disable the Scada System operation of the automatic operation of the well.**
02. Check gas motor over: oil, antifreeze, and general condition.
03. **Turn the main disconnect switch to ON on the gauge panel.**
04. **Turn on the Natural Gas Valve with attached crescent wrench.**
05. Pull the main disconnect handle next to the electric well motor down into the **OFF** position.
06. Open the red control panel box on the gas motor and turn **Test/Off/Auto** toggle switch to **AUTO**.
07. Turn the gas motor **Start/Stop Contact Toggle Switch** on the exterior of the red control panel box to **ON**.
08. Gas motor should start and warm up for approximately **110** seconds. Green light in red control panel box should be on, **Engine Running**.
09. After the warm up, the gas motor should engage the clutch and start the well. Close the red control panel box.
10. Slowly open the throttle in the well house building, **throttle now attached near the drive shaft metal shielding**, until the mechanical pressure gauge on the back side of the main water valve on the main line from the well runs around 75 psi.
11. **Monitor this as to try and maintain 75 psi as the well is pumping.**  
*If you have any problems, please contact Shane Gruber 308-529-2481.*

#### SHUT DOWN:

01. Slowly close the throttle in the well house building, **throttle now attached near the driveshaft metal shielding**, slowing the gas motor to an idle.
02. Turn the gas motor **Start/Stop Contact Toggle Switch** on the exterior of the red control panel box to **OFF** position.
03. The gas motor should be idling and the clutch should release after the above switch has been turned off for approximately **42 seconds**.
04. The gas motor should then idle for approximately **110 seconds** to cool down and then shut off.
05. Open the gas motor red control panel box and turn the **Test/Off/Auto** toggle switch to **OFF**.
06. Close the red control panel box.
07. **Turn off the natural gas valve with the attached crescent wrench.**
08. **Turn the main disconnect switch on the gauge panel to OFF.**
09. Push the main electrical disconnect panel handle near the electric well motor into the **ON** position.
10. **Contact Shane (308-529-2481) to reset the operation of the well with the Scada System to operate it automatically.**  
*If you have any problems, please contact Shane Gruber 308-529-2481.*

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

### START UP:

01. **Contact Shane Gruber (308-529-2481) to disable the Scada System operation of the automatic operation of the well.**
02. Check gas motor over: oil, antifreeze, and general condition.
03. **Turn on the Natural Gas Valve with attached crescent wrench.**
04. Pull the main disconnect handle next to the electric well motor down into the **OFF** position.
05. Open the red control panel box on the gas motor and turn **Test/Off/Auto** toggle switch to **Test**.
06. Gas motor should start and warm up.
07. Go over the right hand side of the gas motor and disconnect the red wire from the starter solenoid that is on top of the starter. Let it hang.
08. Up by the alternator on the same side is a toggle switch in the **OFF** position. Place it into the **ON** position. These two operations allow the gas motor to continue to run.
09. After the warm up of about **60 seconds**, engage the clutch by hand and close the red control panel box.
10. Slowly open the throttle in the well house building, **throttle knob attached near the drive shaft metal shielding**, until the gas motor reaches **2000 rpm** on the gauge panel on the gas motor.
11. Monitor this and when the water tower gets full, which is indicated by the mechanical psi gauge that is on the northwest corner on the wall inside of the well house building reading **59 psi**. Slow the gas motor down with the hand throttle to an idle and let the gas motor continue to run until the next cycle of the water tower needing to be filled. On the same gauge this would be a reading **53 psi – 60% full** of water in the tower as to when the gas motor needs to be again throttled up to the **2000 rpm**.

***If you have any problems, please contact Shane Gruber 308-529-2481.***

### SHUT DOWN:

01. Slowly close the throttle in the well house building, **throttle knob attached near the driveshaft metal shielding**, slowing the gas motor to an idle, if it is not idling already.
02. Disengage the clutch by hand.
03. Open the gas motor red control panel box and switch the **Test/Off/Auto** toggle switch to the **OFF** position.
04. Go to the right side of the gas motor by the alternator and switch the toggle to the **OFF** position. This will shut the gas motor off. Reconnect the red wire to the starter motor solenoid for the next time start.
05. **Turn off the natural gas valve with the attached crescent wrench.**
06. Push the main electrical disconnect panel handle near the electric well motor into the **ON** position.
07. **Contact Shane (308-529-2481) to reset the operation of the well with the Scada System to operate it automatically.**

***If you have any problems, please contact Shane Gruber 308-529-2481.***



## 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	Brandi Klopping	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(Emergency Use Only!)
  - 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
  - 2 Bobcats – 1 Bobcat Jackhammer
  - 1 Bobcat Mini Excavator
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This plan has been approved by Resolution \_\_\_\_\_ of the Gothenburg City Council.

Passed and approved on this day \_\_\_\_\_, 2018.

Signed:

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

Attest:

\_\_\_\_\_  
Brandi Kloepping, 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

# City of Gothenburg

## Water System Inventory

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- Backhoe
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- 1 - Diesel Generator for lighting and or backup power
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- 1 Bobcat Mini Excavator

This plan has been approved by Resolution 2018-5 of the Gothenburg City Council.

Passed and approved on this day March 6<sup>th</sup>, 2018.

Signed:

Joyce E Hudson  
Mayor Joyce Hudson

Attest:

Brandi Kloepfing  
Brandi Kloepfing, City Clerk