

**EPCRA Off-Site Facility Plan**  
**For**  
*Holmen Well #6*

**I. FACILITY NAME: Holmen Well #6**

Name:

Location Address: 3800 Creekside Drive, Holmen, Wisconsin

Phone Number: Village of Holmen Public Works 608-526-6322

Facility ID # Assigned by WEM: **TBD**

**II. FACILITY EMERGENCY COORDINATOR:      ALTERNATE COORDINATOR:**

Name: Dean Olson

Position: Director of Public Works

Telephone Number: 608-526-6322

24-Hr Phone: 608-797-4531

Name: Pete Mezera

Position: Assistant Director

Telephone Number: 608-526-6308

24-Hr Phone: 608-797-7667

**III. CHEMICALS ON SITE: EXTREMELY HAZARDOUS SUBSTANCES**

<u>CAS #</u>	<u>Chemical Name/ Trade Name</u>	<u>Max. Quantity</u>	<u>Vul. Zone</u>	<u>Rural/ Urban</u>
7782-50-5	CHLORINE	150 lbs.	2.2 miles	Rural

**IV. PRIMARY EMERGENCY RESPONDERS:**

Holmen Fire Department

Holmen Police Department

Holmen Public Works

La Crosse County Sheriff Department

Tri-State Ambulance Service

La Crosse County Type II Hazardous Materials Response Team

West Central Regional Type I Hazardous Materials Response Team

La Crosse County Emergency Management

Wisconsin Department of Natural Resources

Wisconsin State Patrol

**V. SUPPORT AVAILABLE FROM FACILITY:**

**CHEMICAL EMERGENCY MONITORING EQUIPMENT:**

Chlorine tank leak detection fluid

Hydro GA-170 gas alarm

**PERSONAL PROTECTIVE EQUIPMENT:**

Emergency Breathing Apparatus  
An eye-wash station is available at this facility

**OUTSIDE RESOURCES AVAILABLE:**

La Crosse County does have a Type II Hazardous Materials Response Team. For Type I incidents, contact the West Central Regional Hazardous Response Team through the Wisconsin Emergency Management Duty Officer (800-943-0003).

**VI. GENERAL INFORMATION AND ASSUMPTIONS: (Disclaimer)**

The vulnerability zones set forth in this Plan are based on the EPA Technical Guidance for Hazards Analysis. The zones are based on a credible worst case scenario and identify the potential area for impact should an air-borne release of a single EHS chemical occur.

The vulnerability zones are NOT intended to be used as a guide for population protection in fire-related incidents. Fire incidents were considered in the development of this plan and the plan provides basic information about the facility for first responders to employ. However, in an actual fire situation at this facility, the Incident Commander is strongly recommended to reference the fire department's own individual agency pre-emergency plans and standard operating procedures as well as the County's Emergency Operations Plan - Annex K: Fire and Rescue, as they may relate to this facility when making decisions at an incident involving fire.

Further, fire departments that would respond to an incident at this facility are strongly encouraged to meet with facility representatives to determine ways to minimize an event at the facility and to determine what additional information and factors should be taken into consideration in the event of a fire, should one occur.

The field incident commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this Plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst case vulnerability zone identified herein.

The vulnerability zones determined in this Plan are for general "PLANNING PURPOSES."

**STATE REPORTING REQUIREMENTS:**

Wisconsin Statute §292.11 WISCONSIN SPILL LAW

The spill law, Chapter 292.11, Wis. Stats., requires that a person who possesses or controls a hazardous substance or who causes the discharge of a hazardous substance shall notify the department *immediately* of any discharge not exempted by the statute. The Department has a 24-hour toll free number for reporting spills: **1-800-943-0003**.

Chapter NR 706 Wisconsin Administrative Code

Ch. NR 706, Wis. Adm. Code establishes exemptions for small quantity spills of agricultural and petroleum related compounds, as well as substances that have a federal reportable quantity established. These quantities are termed “de minimis” in that below these levels, under the following conditions, state notification of a discharge is not required. While reporting requirements may be exempted, *cleanup requirements remain*. If a discharge meets one of the following de-minimis exemptions *it must be reported to the Wisconsin DNR*:

1. Has not evaporated or been cleaned up in accordance with NR 700 – 726,
2. Adversely impacts or THREATENS to adversely impact the environment,
3. Causes or THREATENS to cause chronic and/or acute human health impacts, or
4. Presents or THREATENS to present a fire or explosion hazard or other safety hazard (including all evacuations)

**VII. HAZARD ANALYSIS SUMMARY:**

A. Brief description of facility.

Holmen Well # 6 is located in the southern section of the Village at the north end of Creekside Lane. The well is connected to the municipal water system along with 3 other wells. Chlorine gas is used at this facility as a water disinfectant.

B. Greatest potential for release

The greatest potential for a leak of chlorine gas would occur during the routine connection or disconnection of a tank from the chlorine injection system.

C. Vulnerability Zone for each EHS chemical, including parameters used to arrive at the Vulnerability Zone (rural or urban, wind speed, atmospheric stability, class, level of concern, duration of release.

The hazard analysis is as follows:

EHS Chemical: Chlorine  
Form: Liquid, Powder in solution, Solid, Gas, Granular  
Container Size: 150 lbs.  
Concentration: 100 %  
Parameters used in the hazard analysis:  
Level of Concern: 1/10 IDLH  
Duration of Release: 10 minutes

WORST CASE SCENARIO:

Rural  
Wind Speed: 3.4 mph  
Atmospheric Stability Class: F  
Vulnerability Zone: 2.2 miles

RE-EVALUATION SCENARIO:

Rural  
Wind Speed: 11.9 mph  
Atmospheric Stability Class: D  
Vulnerability Zone: .3 miles

It is estimated that up to 11,637 people may be affected by an accidental release of chlorine.

D. Possible limitations or problems that could arise.

Numerous businesses and schools, and other moderately high occupancy facilities, lie within the 2.2 mile vulnerability zone. A child care center is located .07 mile (less than 400 feet) from the well and an elementary school is ¼ mile away. Timely notification to shelter in place or to evacuate could be difficult.

E. Estimate of population affected.

Approximately 11,600 people live within a 2.2 mile radius of this facility. However, wind direction and speed, as well as amount and duration of the leak, will influence the location and size of the affected area.

F. Conclusions.

Municipal wells have a low incidence rate of chemical releases. However, due to the proximity and number of businesses and schools, pre-planning and exercising of the emergency 'off-site' plan is encouraged.

**VIII. SPECIAL FACILITIES AFFECTED:**

Nearly 50 Special Facilities lie within the 2.2 mile vulnerability zone for the release of chlorine gas from Holmen Well #6. Notification to either shelter-in-place or to evacuate could be difficult to accomplish. Some of these facilities are not occupied every day or may have limited hours of operation. See the Detailed List of Affected Special Facilities in the ATTACHMENTS section.

<u>(See attachment for address and phone #)</u>	<u># of people affected</u>
Apostolic Church	unknown
Cedar Meadows East Park	
Cedar Meadows West Park	

Cherished Moments Day Care	8
Children's Tree House	72
Chrishaven I North	4
Chrishaven II South	4
Christ the King Church	unknown
Cliffview	4
Creative Community Living Services	3
Deer Wood Park	
Eagle Crest Elderly Housing and Memory Care	130
Education Station Day Care	40
First Evangelical Free Church	unknown
Good Shepherd Church	unknown
Holmen Fire Department	2 -100
Holmen Baptist Church	unknown
Holmen Post Office	20
Hurricane Court Adult Family Home	4
Kristy Lane Adult Family Home	4
Lakeview Foursquare Church	unknown
Little Lamb Preschool	12
Little Steps Learning Center	8
Mayo Clinic – Holmen	
Miss Rhonda's Safari	8
Old School House Day Care	8
Town of Onalaska Town Hall	
Paradise Landing Child Care	8
Play 2 Learn Child Care	8
Ponderosa Park	
Sand Lake Elementary School	540
Sand Lake Wesleyan Church	unknown
Tidal Wave Adult Family Home	4
Timberline Park	
Tri-State Ambulance Service	10
USDA Farm Service Agency	
Viking Elementary School	753
Wiggles &Giggles Child Care	50

## IX. POPULATION PROTECTION:

The determination to shelter in place or to evacuate will be made by the on-scene commander as appropriate. The lead time for a hazardous materials incident may

be very short. As a result, there may not be time enough for safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these considerations may expose the population to dangerous toxic chemicals and the decision may be made to shelter in place. Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching. Doors, windows, and other potential air leaks should be sealed up to prevent toxic fumes from entering.

Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 70% would seek shelter with family and friends outside of the risk zone.

Roles and responsibilities relative to evacuation and sheltering as well as a list of shelters are provided in the La Crosse County Emergency Operations Plan, Annex E.

**X. SPECIAL CONSIDERATIONS:**

- A. Limited access to facility  
Well #6 is located at the far north end of a dead-end street.
- B. Address environmental concerns at facility and in Vulnerability Zone  
A portion of Lake Onalaska falls within the 2.2 mile vulnerability zone.
- C. Actual response capabilities at facility are limited.
- D. Potential for affecting other jurisdictions  
The 2.2 mile vulnerability zone extends into the Town of Onalaska and the City of Onalaska.

**XI. REQUIRED ATTACHMENTS:**

- A. Facility Layout Highlighting EHS Chemical Storage Location
- B. Vulnerability Zone map highlighting Special Facilities
- C. Chemical Data Sheet on EHS Chemicals (Response Information Data Sheets or MSDS)
- D. Hazardous Materials Worksheet/Calculations or Computer-Generated

## Vulnerability Zone Calculations

**NOTE:** There are no local ordinances in La Crosse County which mandate specific routes for vehicles carrying Extremely Hazardous Substances (EHSs). Thus, EHSs may be transported over any local, state, or federal highway for which weight limits are met.

### **XII. DISTRIBUTION LIST:**

Holmen Public Works Department  
Holmen Fire Department  
Wisconsin Emergency Management  
La Crosse Regional Hazardous Materials Response Team

### **ATTACHMENTS:**

Facility Layout Highlighting EHS Chemical Storage Location  
Vulnerability Zone Map highlighting Special Facilities  
Chemical Data Sheet on EHS Chemicals  
Computer-Generated Vulnerability Zone Calculations

