CITY OF CHAMPLIN, MINNESOTA Wellhead Protection Program Evaluation

Evaluation Completed By Timothy C. Hanson, P.E. City Engineer Date Evaluation Completed: September 10, 2012

Plan Evaluation Frequency:

According to the wellhead protection plan if less than 2.5 years.

X 2.5 years

When a wellhead protection plan is amended.

Copies of Evaluation Presented or Sent to:

| Minnesota Department of Health Attn: Trudi Witkowski | City of Champlin September 10, 2012 |
|---|--|
| Environmental Health Division | |
| Source Water Protection Unit | City's Wellhead Protection File |
| P.O. Box 64975 | |
| St. Paul, MN 55164-0975 | |

I. Changes to Water System, Delineations, or Contaminant Sources

A. List the unique number and locations of new wells installed since the last plan evaluation:

| Unique Well Number | Date Online | Delineation Completed? |
|--|----------------|------------------------|
| 778073 – Three Rivers Park parking lot on West Hayden Lake Road | September 2012 | Not located in DWSMA |
| | | |
| | | |

B. List any new facilities or changes in current facilities in the drinking water supply management area(s) that may be of concern with regard to groundwater quality (list the facility name and nature of concern):

| Facility Name | Change | Distance to Well | Well Number | Date Change Made |
|-----------------------------|-----------------------|---------------------|----------------|---------------------|
| Water Treatment Plant No. 2 | Added Water Treatment | 0 | | 5-1-12 |
| | | | | |
| | | | | |
| | | | | |

C. Was any component of the <u>contingency plan</u> implemented by your system at any time since the last program evaluation?

| Yes (What was the reason? |) |
|----------------------------------|---|
| X No | |

List changes that are needed in the contingency plan and <u>update the plan accordingly</u>:

1. Added Water Treatment Plant #2

2.

3.

II. Wellhead Protection Plan Evaluation Approaches

In letters A-D below, complete the sections that apply to the evaluation approaches that were specified in your wellhead protection plan (Chapter 6).

A. Sampling the quality of groundwater throughout the drinking water supply management area. (Summarize efforts or attach report of sampling results and conclusions.)

Champlin currently samples only drinking water for iron and manganese removal on a daily basis. We also comply with all State and EPA regulations. We do not currently have a specific program or standard operating procedure to compare historic data with new data. However, there are a number of analysis performed and the results are reviewed by the Utilities Superintendent on a regular basis. The addition of our water treatment plant and changes to the water treatment process including the removal of radium is delivering a better finished product.

B. Documenting inventory control of potential contaminants. (Summarize efforts.)

The City has collected all known data and will continue to collect data as it becomes available.

C. Documentation of the implementation of wellhead protection measures. (Summarize efforts.)

II. Wellhead Protection Plan Evaluation Approaches

WHP Measure A1-1

The following articles have been published since the last reporting period of November 23, 2009:

CITY NEWSLETTER

Champlin ERC Mini-Grant Metro Blooms Rain Garden Workshop Park Clean-up Event Recycling Drop Off Event Water Treatment Plant No. 2 Read All About It – Disposal of Household Products Elm Creek Riparian Restoration and Stream Bank Stabilization Project What is Stormwater Runoff? National Drug Take Back Initiative Feeding Wildlife Sidewalk Salt

WEB

Elm Creek Restoration Project What You Can Do To Protect Your Environment NonPoint Source Pollution – What is it? What's the Problem With Pet Waste? Low Salt Diet for Your Lakes & Rivers Read All About It – Disposal of Household Products Driveway Sealants Ten Steps of Cleaning Up After Your Dog Help Keep Your Watershed Healthy By.... New Storm Water Regulations for Construction What is a Rain Garden? Fall Clean Water Tips Responsible Lawn Fertilization Mill Pond Draw-Down Project

ERC BOOTH AT CHAMPLIN FARMERS MARKET

Non-Toxic Cleaning Recipes Hennepin County Drop-off Facilities (for disposal of HHW) How to Identify Hazardous Products – Read the Label How to Grow a Healthy, No-Waste Lawn and Garden Map and description of Elm Creek Stream Stabilization Project Ten Things You Can Do To Improve Minnesota's Lakes, Rivers & Streams Is Salt Hurting Your Landscaping? 30 Ways to Love Your Lake Landscaping Tips to Protect Water Quality What's the Greenest Way to Maintain an Asphalt Driveway? Fall Clean Water Tips New Storm Water Regulations for Construction Sites Springtime Tips for Lawn Care Got Geese?

UTILITY BILLS

Odd-Even Sprinkling

SEPARATE MAILING TO RESIDENTS

Annual Water Quality Report Our Water Source General Source Water Information Contaminants that may be present in source water Lead Information Sprinkling Restrictions Read All About It!

NEW RESIDENT PACKET

Wells May Contaminate Your Water Annual Water Quality Report Odd-Even Calendar Sprinkling Ten Things You Can Do to Improve Minnesota's Lakes, Rivers & Streams What is a Rain Garden? A Low-Salt Diet for Lakes & Streams Fall Clean Water Tips Cleaning Up After Your Dog What's the Greenest Way to Maintain an Asphalt Driveway? What is Stormwater Runoff? Protecting Water Quality from Urban Runoff ERC Booth at Champlin Farmers Market information What's the Problem with Pet Waste? Water Is Everybody's Business The Solution to Stormwater Pollution Stormwater Pollution Found In Your Area West Mississippi Watershed Annual Report

WHP A1-2 Provide tours of public utilities facilities to local schools when requested. Inform students and teachers about wellhead protection during tours.

North Hennepin Community College and ongoing as requested.

WELL MANAGEMENT

WHP B1-1 Provide Hennepin County with list of abandoned and unsealed well locations and register sites with the MDH as City staff discover them.

No new abandoned or unsealed wells were located since the last reporting period. We will continue to monitor.

WHP B1-2 Conduct a written survey of property owners in and near the DWSMA to inquire whether a well is located on their property and, if so, the status of their wells. Record which property owners respond and which do not respond.

In 2011/12, well surveys were sent to 353 property owners who didn't respond in 2009. In addition, 37 City properties were pulled from the list and we are in the process of determining well status on these sites. 82 responses, 23%, were received.

WHP B2-1 Use existing programs (City utility's newsletter, flyers and postings) to educate property owners about well management techniques.

See WHP Measure A1-1

WHP B3-1 Explore possible cost sharing with well owners in an attempt to abandon higher risk wells. Explore within two years of Plan implementation.

There is no current funding available thru the City of Champlin and we aren't aware of any cities that offer funding.

WHP B3-2 Funding from State, County and Other Government Agencies

Hennepin County has some funding, but it is for high vulnerability areas. Currently we have no high vulnerability wells.

STORAGE TANK MANAGEMENT

WHP C1-1 Mail a letter to regulated underground storage tank (UST) owners notifying them that their tanks are located in a wellhead protection area. Encourage regulated tank owners to stay informed about UST requirements and rules. Provide MPCA web site addresses and contact information in 2004, with periodic updates as Wellhead Protection Plan is modified or properties are known to change hands.

> In April 2012 a letter was sent to Johansen Bus Service (leased by Laidlaw), 11911 Champlin Drive, and Holiday Stationstore #243, 12024 Champlin Drive. The Bus Company currently has no underground storage tanks, but do have the following above ground storage tanks, all mounted on concrete pads:

| 6,000 gal. cap. Each |
|----------------------|
| 200 gal. cap. |
| 200 gal. cap. |
| 265 gal. cap. |
| |

The Holiday Stationstore has 4 underground storage tanks:3 gasoline12,000 gal. cap. Each1 diesel8,000 gal. cap. Each

The City of Champlin site has 3 underground storage tanks:

| 1 gasoline | 10,000 gal. cap. |
|------------------|------------------|
| 1 diesel | 10,000 gal. cap. |
| 1 used/waste oil | 560 gal. cap. |

WHP C2-1 In the letter sent to educate owners of regulated underground storage tanks in the moderately vulnerable DWSMA, encourage tank owners to provide the City of Champlin copies of reports sent to the MPCA.

Completed January 6, 2012.

WHP C2-2 Request that the MPCA notify the City about changes in tank status. Notify the MPCA about any changes in tank status identified by the City.

Ongoing - only one above ground oil/waste oil tank was added at Johanson Bus.

SHALLOW DISPOSAL WELLS, CLASS V WELLS

(Commonly used with drywells, cesspools and septic systems)

WHP D-1 Provide a list of automotive disposal wells to MDH as City staff discover them.

None known.

WHP D2-1 Use existing programs (City utilities newsletter, flyers and postings) to educate property owners about Class V wells and how they are regulated.

Posted on City website, mailings and newsletters Shallow Disposal Systems (Class V Wells): Protecting Ground Water Supplies Class V Injection Wells: What are they and why are they important in Wellhead Protection Areas? Wellhead Protection Plan

WHP D2-2 Conduct a written survey of property owners in and near the DWSMA to inquire whether a shallow disposal well may be located on their property.

A written survey of property owners who didn't respond in previous years. 353 surveys were sent and 82 responded. There are currently 271 property owners surveyed that have not yet responded.

Several types of responses were received. Some have wells they use for water, some for watering only (seasonal), and some have wells that are no longer used – these wells are typically sealed and capped. Status of the wells are kept on report, but we didn't do a count of each of this year's responses.

E. DATA COLLECTION

WHP E1-1 Maintain water quality sampling requirements mandated by MDH and analyze trends in water chemistry, looking for any possible degradation of quality.

Water quality is monitored on a continuing basis. We comply with State and Federal regulations. No change in the water quality was noted.

WHP E2-1 In cooperation with state and local programs, create and maintain a database of wells, underground storage tanks, and shallow disposal wells within the DWSMA.

WHP E2-2 Determine if each well identified as "unlocated" in the well inventory is within the DWSMA and attempt to locate the well.

All unlocated wells (12) on Table A1.1 of Wellhead Protection Plan were located in 2006 and prior, with the exception of Unique Well No. 171095 and 180936, which we still are unable to locate.

WHP E2-3 Distribute Chapter 8 of Wellhead Protection Plan Part II, dated October 5, 2004.

Distributed to City staff by memo on June 26, 2012.

WHP E2-4 Request the DNR inform the City of any proposed high capacity wells (over 1 million gallons per year) or changes in appropriations to existing wells that may impact the capture zones for Champlin's public water supply wells.

DNR was requested to inform the City of any proposed municipal high capacity wells or changes in appropriations to existing wells that may impact the capture zones for Champlin's public water supply wells and informs the City when a significant change in water appropriation occurs that may alter the ground water flow field near DWSMA.

In 2009 we spoke the Kate Drewry, Hydrologist, DNR, 651 772 7977, regarding a recently constructed well that may alter the ground-water flow field near DWSMA. Wells that pump over a million gallons per year need a drilling permit from the Health Department but also a licensing permit from DNR Waters. As part of this permitting, the DNR will review for change in the ground-water flow field near DWSMA and notify the City if there is a significant change.

William Bauer Property at 10830 French Lake Road constructed a well that may pump over 1 million gallons per year.

WATER CONSERVATION

WHP F1-1 Implement long-term and short-term (as needed) conservation measures included in the Water Supply Plan.

Long-term and short-term conservation measures are included in the Water Supply Plan and measures are outlined in City Ordinance Chapter 58. Between May 1^{st} – Labor Day each year, properties with even numbered post office addresses may use water on even numbered calendar days and properties with odd numbered post office addresses may use water on odd numbered calendar days. Property owners with private wells are not affected by the watering ban. These private wells must be registered with the City. There will be no watering of lawns, trees or shrubs by use of City supplied water between the hours of 10 am and 7 pm between May 1^{st} and Labor Day.

D. Using monitoring data that are required by existing laws and rules in effect at the time of plan adoption. (*List data used and summarize conclusions made from data.*)

N/A

III. New Wellhead Protection Data

List any new data that relates to wellhead protection delineations or source management (i.e., groundwater study results, water quality monitoring data, well construction logs, etc.) that may be used during the next update of the wellhead protection plan:

| Nature of Data | Source of Data | |
|----------------|----------------|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

IV. Plan Implementation Administrative and Financial Concerns

| Year | Annual Expense | Year | Annual Expense |
|--------|--|---------|-------------------------|
| 1-2004 | \$13,358 to Bonestroo for Wellhead Protection Plan, etc. | 6-2009 | \$8,150 City time spent |
| 2-2005 | \$3,900 City time spent | 7-2010 | \$4,025 |
| 3-2006 | \$5,200 City time spent | 8-2011 | \$4,500 |
| 4-2007 | \$2,680 City time spent | 9-2012 | \$8,000 |
| 5-2008 | \$3,105 City time spent | 10-2013 | \$ |

A. Estimate the annual expense of plan implementation for each plan year including staff time and actual dollar amount spent.

B. Estimate full-time equivalency (FTE) spent on wellhead protection implementation in terms of percentage of FTE.

 $\mathbf{FTE} = \underline{4\%}$

C. Has the wellhead protection budget been adequate to conduct wellhead protection implementation activities during the last evaluation period?

x Yes No

If no, where could it improve?

- D. Itemize difficulties incurred during your plan implementation.
 - 1. Obtaining responses from property owners regarding private wells within the DWSMA Areas.