

NE Well Head Protection Network Meeting M.U.D. Platte West Water Treatment Plant Platte West Well Head Protection Plan October 24, 2016

Introduction

Purpose & Approval

General & Discussion

Well Head Protection Program

Approvals

Concluding Comments

Next Steps

Introduction

- Nebraska's Well Head Protection (WHP) Program is a voluntary program
- Nebraska Legislature passed LB 1161 in 1998 which authorized WHP Area Act
 - This Act sets up a process for public water supply systems to implement a WHP Plan (WHPP)
 - NDEQ is the lead agency and WHPP approval
- On October 2, 2012, M.U.D.'s Board approved hiring HDR & JEO to develop WHP Plans for Platte South and Platte West well fields at a cost of \$100,000

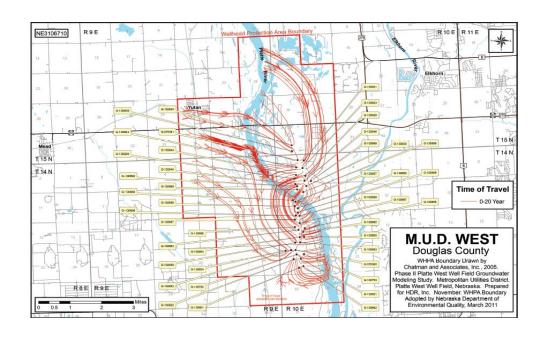
General

- Did not pursue WHPP in 1998 at PS
 - Only groundwater plant at that time
 - * Fairly well protected by ownership of 600 acre wellfield
- * Addition of PW, wellfields at PS being under the influence of surface water, and development around both wellfields
 - Time was right for WHPP
- HDR and JEO hired to develop WHPP for PS and PW
 - * Scope was to develop WHPPs for each wellfield
 - * Did not pursue WHPPs for peak shaving wells
 - * Scattered through out system
 - * Started abandoning them as they are less important

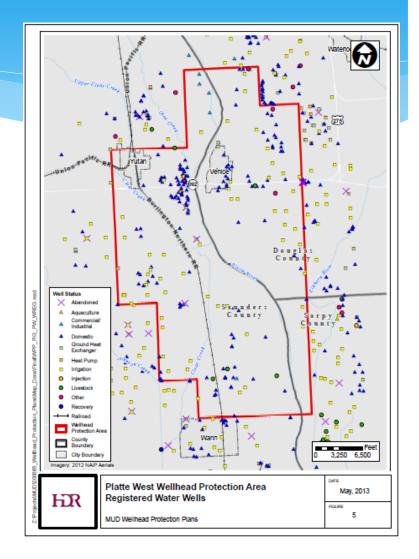
Discussion

- Committee of interested parties formed (WHP Team)
 - * Landowners
 - City and County officials
 - * NRD officials
 - * Private citizens
 - * NDEQ
- Five specific actions were completed for the WHPP
 - Delineation Maps furnished by NDEQ
 - Potential Contamination Source Inventory
 - Contamination source management
 - Emergency, contingency, and long-term planning
 - Public education and participation

- Delineation Maps furnished by NDEQ
 - -- 20 year time of travel lines to each well



- * Potential Contamination Source Inventory
 - Updated within the past 3 years
 - Contaminants marked on map
 - Spreadsheet associated with point source contaminants
 - * Land use map for non-point sources



Discussion, cont'd

* Contaminant Source Management

- * Develop list of existing controls or develop/suggest new controls
- Copies/descriptions of inter-agency agreements
- * Best management practices for agricultural or urban settings
- Communication with city/county officials, NRDs, and need for zoning regulations
 - * Well Head Protection Overlay Zoning District

- Emergency, contingency, and long-term planning
 - * Plan includes copies of MUD's emergency and conservation plans
 - * Short-tem temporary source of drinking water
 - Identifies options for obtaining new long-term source of water (new well locatons)
 - Provide replacement source of drinking water in the event of:
 - Shut down of well due to contamination
 - * A natural disaster that impacts wells: flood, tornado, drought, ice storm
 - * Major mechanical or physical breakdown of pump, water towers, or distribution system
 - * Vandalism to well, water tower/storage, or supply source

- * Public education and participation
 - WHPP available for public review 30 days prior to public meeting
 - * Available on website
 - Public comments at regularly scheduled Board meeting
 - * Notice of plans available for public review on August 4, 2013 in OWH
 - Proof of public meetings and notices
 - * Notice of public hearing on August 25, 2013 in OWH
 - Public comments taken at September 4, 2013 Board meeting

Approvals

- * Board of Directors unanimously approved WHPP on September 4, 2013
- * NDEQ approved plan on October 29, 2013

Concluding Comments

- * Estimated cost of plan was \$85,119 for PS and PW
- * Total cost was \$82,354 for PS and PW

Next Steps

- * Cass, Douglas, and Sarpy County's undergoing revisions to planning regulations
 - * Will include WHP Overlay Zones
 - * Saunders County not reviewing regulations at this time

Questions/Comments???