APPENDIX 1

SCOPING 1 LETTER AND DATA ELEMENTS

August 10, 2004

Mr. Ken Robinson and Ms. Lisa Volbrecht
Source Water Protection Co-Managers
St. Cloud Public Utilities
400 Second Street South
St. Cloud, Minnesota 56301

Dear Mr. Robinson and Ms. Volbrecht:

This letter provides notice of the results of a scoping meeting held with you on January 15, 2004.
During the meeting we discussed the criteria that is be considered when delineating the Priority A and B designations of the source water protection area, the drinking water supply management area for each Priority area, and the source water protection watershed. Also discussed were the data elements that are to be addressed and used to delineate these areas and to analyze the sensitivity and susceptibility of the source water to contamination. Enclosed you will find this information.

If you have any questions, please contact me at art.persons@health.state.mn.us or 507-292-5138.

Sincerely,

Arthur C. Persons, Principal Planner Supervisor
Environmental Health Division
18 Wood Lake Drive Southeast
Rochester, Minnesota 55904-5506

ACP:kmc
Enclosure
cc: Mike Howe, MDH Principal Planner, St. Cloud District Office

Data Elements To Be Used For Part 1 of the Source Water Protection Plan

Public Water Supplier Name: St. Cloud Public Utilities

PWSID No.: 1730027 **Date: August 6, 2004**

Precipitation Data Elements

☒ Existing map or list of local precipitation gauging stations; and

☒ Existing table showing the average monthly and annual precipitation in inches for the preceding five years.

Geology Data Elements

☒ Existing geologic map and a description of the geology, including aquifers, confining layers, recharge areas, discharge areas, sensitive areas as defined in Minnesota Statutes, section 103H.005, subdivision 13, and groundwater flow characteristics;

☐ Existing records of the geologic materials penetrated by wells, borings, exploration test holes, or excavations, including those submitted to the department;

☐ Existing borehole geophysical records from wells, borings, and exploration test holes; and

☒ Existing surface geophysical studies.

Soils Data Elements

☒ Existing maps of the soils and a description of soil infiltration characteristics; and

☒ Existing description or an existing map of known eroding lands that are causing sedimentation problems.

Water Resources Data Elements

☒ Existing map of the boundaries and flow directions of major watershed units and minor watershed units;

☒ Existing map and a list of public waters as defined in Minnesota Statutes, section 103G.005, subdivision 15, and public drainage ditches;

☒ Existing shoreland classifications of the public waters listed under subitem (2), pursuant to part 6120.3000 and Minnesota Statutes, sections 103F.201 to 103F.221;

☒ Existing map of wetlands regulated under Chapter 8420 and Minnesota Statutes, sections 103G.221 to 103G.2373; and

☒ Existing map showing those areas delineated as floodplain by existing local ordinances.

List of Data Elements to be Used for SWP Plan

Land Use Data Elements

- ☒ Existing map of parcel boundaries;
- ☒ Existing map of political boundaries;
- ☒ Existing map of public land surveys including township, range, and section;
- ☐ Map and an inventory of the current and historical agricultural, residential, commercial, industrial, recreational, and institutional land uses and potential contaminant sources;
- ☐ Existing comprehensive land-use map; and
- ☐ Existing zoning map.

Public Utility Services Data Elements

- ☒ Existing map of transportation routes or corridors;
- ☒ Existing map of storm sewers, sanitary sewers, and public water supply systems;
- ☒ Existing map of the gas and oil pipelines used by gas and oil suppliers;
- ☒ Existing map or list of public drainage systems.

Surface Water Quantity Date Elements

- ☒ Description of high, mean, and low flows on streams;
- ☒ List of lakes where the state has established ordinary high water marks;
- ☒ List of permitted withdrawals from lakes and streams, including source, use, and amounts withdrawn;
- ☒ List of lakes and streams for which state protected levels or flows have been established; and
- ☐ Description of known water-use conflicts, including those caused by groundwater pumping.

Groundwater Quantity Date Elements

- ☐ List of wells covered by state appropriation permits, including amounts of water appropriated, type of use, and aquifer source;
- ☐ Description of known well interference problems and water-use conflicts; and
- ☐ List of state environmental bore holes, including unique well number, aquifer measured, years of record, and average monthly levels.

List of Data Elements to be Used for SWP Plan

Surface Water Quality Data Elements

☒ Map or list of the state water quality management classification for each stream and lake; and

☒ Summary of lake and stream water quality monitoring data, including:

- ☒ Bacteriological contamination indicators;
- ☒ Inorganic chemicals;
- ☒ Organic chemicals;
- ☒ Sedimentation;
- ☒ Dissolved oxygen; and
- ☒ Excessive growth or deficiency of aquatic plants.

Groundwater Quality Data Elements

☐ Summary of water quality data, including:

- ☐ Bacteriological contamination indicators;
- ☐ Inorganic chemicals; and
- ☐ Organic chemicals;

☒ List of water chemistry and isotopic data from wells, springs, or other groundwater sampling points;

☐ Report of groundwater tracer studies;

☐ Site study and well water analysis of known areas of groundwater contamination;

☐ Property audit identifying contamination; and

☐ Report to the Minnesota Department of Agriculture and the Minnesota Pollution Control Agency of contaminant spills and releases.

Note to the public water supplier and to the preparer of the source water protection plan:

✓ All data elements indicated with a check mark shall be used and the results considered in the 1) delineation of the Priority A and B designations of the source water protection area, Drinking Water Supply Management Areas for each area, and the source water protection watershed; 2) analysis of the sensitivity and susceptibility of the source water to contamination.

❖ All data elements marked with a check mark shall be used as stated above and the information shall be included in the appendix to the plan or listed in a bibliography and submitted to the Department.