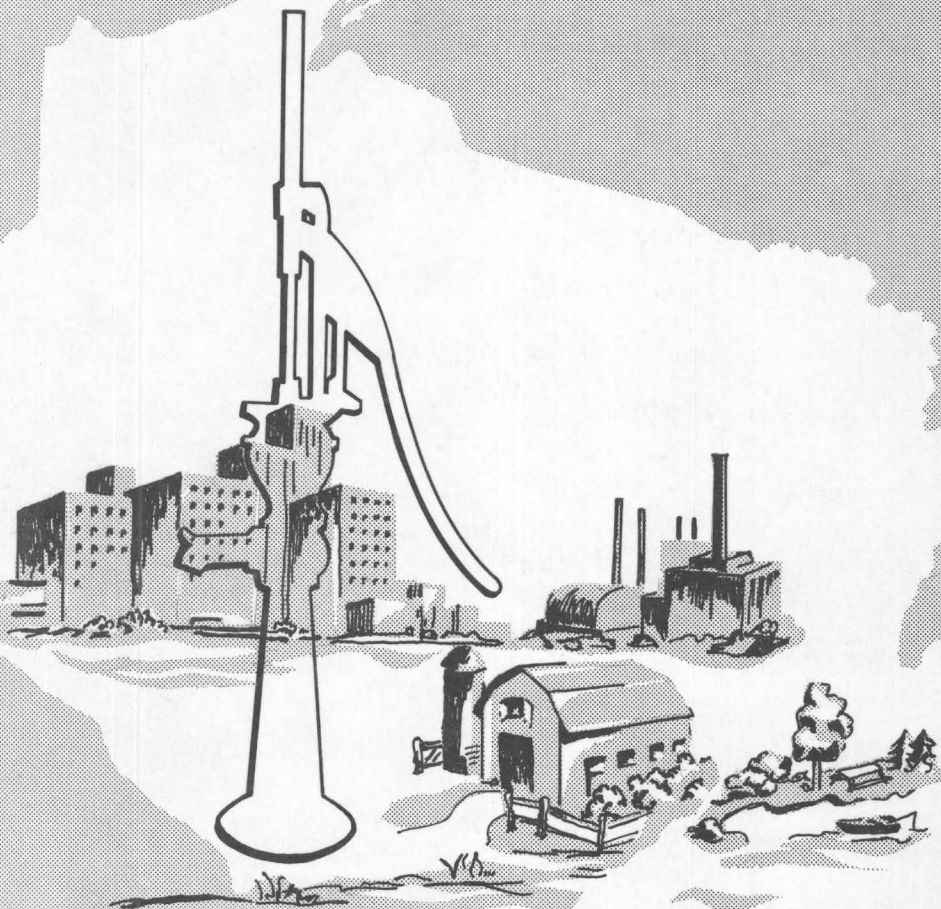


UNIVERSITY OF WISCONSIN-EXTENSION

GEOLOGICAL AND NATURAL HISTORY SURVEY

Meredith E. Ostrom, Director & State Geologist



GROUND-WATER QUALITY IN WISCONSIN THROUGH 1972

PREPARED BY
UNITED STATES GEOLOGICAL SURVEY
IN COOPERATION WITH THE
WISCONSIN GEOLOGICAL AND NATURAL HISTORY SURVEY

UNIVERSITY EXTENSION

THE UNIVERSITY OF WISCONSIN
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IN WISCONSIN THROUGH 1972

By

C. L. R. Holt., Jr., and E. L. Skinner

U.S. Geological Survey

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Iowa -----	73	Trempealeau -----	123
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INTRODUCTION

Ground water, a plentiful and largely underdeveloped resource of Wisconsin, has good to excellent chemical quality in most places. This resource is readily available in most parts of the State for municipal, industrial, and rural uses. In 1970, about 0.5 billion gallons of ground water a day was pumped in Wisconsin for all uses (Murray and Reeves, 1972). In addition, underground reservoirs discharge an average of 16 billion gallons per day of water of relatively constant temperature and uniform quality, which maintains the base flow of streams and the level of lakes (Holt, 1964).

The quality of ground water greatly affects its use by municipalities, in industry, and on the farm. In addition, the quality of ground water discharged to streams and lakes governs the quality of the base flow of streams and water in the lakes. More than 1.5 million people (Murray and Reeves, 1972) living in 445 Wisconsin communities (Wisconsin Department of Natural Resources, 1970) use ground water and are, naturally, concerned about its quality. Industrial users need to know about harmful or beneficial chemicals in processing water and the temperature of ground water used for cooling. Agricultural use is least demanding on water quality, but knowledge of dissolved minerals that may affect crops, animals, or soils is necessary. Fish are sensitive to water temperature and quality, and most trout live in reaches of streams that receive large discharges of ground water (Threinen and Poff, 1963).

Ground-water research, including collection of basic data on quantity and quality, by the Wisconsin Geological and Natural History Survey (WG&NHS) in cooperation with the U.S. Geological Survey, has continued for nearly three decades. This includes a long history of close cooperation with the Wisconsin Department of Natural Resources (DNR), which has the responsibility for regulating the use and protecting the quality of ground water. The primary concerns of the cooperative studies have been the prediction of how much, where, and when ground water will be available; the determination of water quality; the effects of development and use of the resource; and the impacts of surface and subsurface contaminants on local and regional ground-water systems and on streams and lakes.

Purpose and Scope of Report

One purpose of this report is to summarize and interpret available information on the quality of ground water in Wisconsin. Major sources for this information are the more than 30 technical reports that describe ground-water resources and quality in river basins, counties, and special study areas.

Another purpose is to present a background of chemical-quality data on ground water as it occurs in natural and man-modified environments. These data constitute a base for planning and managing the water and land resources of Wisconsin.

A third purpose is to describe the current monitoring program for ground-water quality and to assess the need for its acceleration.

Because ground water in Wisconsin is generally free of contaminants, table 1 indicates the generally natural, or baseline, quality of water. The term "natural" quality used in this report may include minor quality changes resulting from long-term changes in land and water use. The "natural" quality data are essential for monitoring changes in water quality. Contamination of ground water constitutes a departure from "natural" quality.

The 3,388 chemical analyses given in table 1 were acquired as part of numerous cooperative investigations (fig. 1). Many are comprehensive--including determination of all major cations and anions and chemical-physical characteristics. Other analyses include only a few components. The analyses are not equally distributed geographically, however, because priority for collection was determined by areas of major water use and areas of current and anticipated water problems. Little or no information is available for some places.

Table 1 includes only analyses in computer storage as of April 1973, and figure 1 includes only those sites represented in table 1. Several hundred analyses remain to be put into storage. The counties having significant quantities of analyses remaining to be stored are Clark (50), Green Lake (10), Juneau (5), Langlade (10), Marathon (20), Marquette (5), Menominee (5), Portage (70), Shawano (5), Waupaca (65), Waushara (3), and Winnebago (45). Other counties have lesser quantities. All remaining analyses plus other analyses obtained after April 1973 will continue to be placed into storage.

Included with the inventory (1,159 single-analyses sites) of "natural" quality are repetitive samples collected at 731 monitoring sites (fig. 1 and table 1). The purpose of this monitoring is to determine changes in ground-water quality, both regional and within an aquifer. The monitoring includes studies of the movement of the deeply buried highly mineralized water in eastern Wisconsin in relation to areas of major pumpage. Water samples for monitoring purposes are collected generally at 1-year intervals because regional changes in ground-water quality are slow.

Data on water-quality constituents, such as heavy metals, radio-chemical parameters, temperature, strontium, nitrite, and hydrogen sulfide, as well as data on well construction and geology, have been omitted from table 1. However, these data are in computer storage and are available on request to the District Chief, U.S. Geological Survey, Madison, Wisconsin.

Acknowledgments

Acknowledgment is made to the Wisconsin State Laboratory of Hygiene, the Wisconsin Department of Natural Resources, and to other State and local agencies for making water-quality analyses available. Appreciation is expressed to citizens, industries, and local and State agencies for permitting the collection of water samples.

Special recognition is given the many staff members, who expended considerable effort in a brief period of time to prepare data for computer processing and for this report.

THE "NATURAL" QUALITY OF GROUND WATER

Dissolved Minerals in Ground Water

Ground water dissolves, transports, and deposits minerals. The climate, including the amount and chemical character of precipitation, governs the amount of water available for solution, subsequent dilution, and the movement of dissolved material. The characteristics of rocks and soils govern the rate of water movement and the amount of mineral solution. The growth and decay of organic substances contribute to the decomposition of mineral matter and accelerate the rate of solution.

All rocks are soluble in water to varying degrees. Limestone (dolomite) beds in parts of southwestern and eastern Wisconsin have been dissolved along joints and bedding planes, leaving passageways for the flow of water. Springs and seeps mark the exits of many of these passageways. Less soluble rocks, such as the crystalline rocks of northern Wisconsin and the quartz sand of the outwash plains, decompose slowly but still contribute some dissolved minerals to ground water.

The mineral content of ground water changes as it travels from the land surface downward through soil and varied layers of rocks, then laterally, until it discharges from springs, seeps to rivers and lakes, or is pumped to the surface by wells. Generally, the concentration of minerals in ground water increases with the length of time the water is in contact with rocks and soil. Because ground water may dissolve different minerals from place to place, the composition and chemical type of the water may change significantly between sampling points.

Ground water also absorbs wastes readily, such as effluent from septic tanks, industrial and farm wastes, municipal sewage, and leachate from solid wastes. Many other materials, such as road salt, fertilizer, and petroleum products, may enter a ground-water system.

Amount of Dissolved Solids in Ground Water

The amount of mineral matter dissolved from rocks, transported underground, and discharged by springs, seeps, and wells is large. However, because ground water is generally free of visible sediment, the volume of minerals removed by solution is not apparent. In Wisconsin, the average dissolved-solids content of ground water discharged to lakes and streams and from wells is generally about 200 mg/l (milligrams per liter). Ground-water discharge in the State is estimated to be 16 billion gallons per day--or about 285,000 gallons per day per square mile (Holt, 1964). Computed on an annual basis, 87 tons per square mile of mineral matter is being dissolved from soil and rocks. The dissolved mineral yield of ground water for the entire State, about 5 million tons per year, would require 100,000 coal cars to haul. About 150,000 tons per year of the total mineral yield was pumped in 1970, along with about 180 billion gallons of water from wells (Murray and Reeves, 1972).

The magnitude of the dissolved mineral content of ground water is striking, when compared with the volume of sediment derived from surficial erosion and transported in Wisconsin's streams. The average annual discharge of suspended sediment in streams is about 100 tons per square mile (Holt, 1973), whereas 87 tons per square mile of mineral matter is dissolved annually from soil and rocks, as stated previously.

Not all the minerals dissolved by ground water are transported from the State; a part precipitates as solids, such as marl, in lakes and swamps, and some becomes sorbed by the suspended and bedload sediment in streams (Weidman and Schultz, 1915).

The Chemical Quality of Ground Water

The "natural" chemical quality of ground water differs considerably between aquifers, within aquifers, and from one drainage basin to another. This difference is related primarily to the chemical composition of the soil and rocks and the length of time the water has been in contact with them.

The quality of water discharged from glacial drift and bedrock (fig. 2) is related generally to the chemical and physical character of these sediments and rocks (fig. 3 and 4). Areas in northern and central Wisconsin having less than 100 mg/l dissolved solids in ground water relate to extensive deposits of sand and gravel underlain by crystalline rock, where ground water moves rapidly and for relatively short distances between areas of recharge and discharge (Oakes and Cotter, 1973; Young and Hindall, 1972; Devaul and Green, 1971). Areas having between 100 and 250 mg/l dissolved solids in ground water are characterized by glacial deposits, such as moraines and outwash, which contain fragments of dolomitic limestone and are underlain by shallow bedrock of dolomitic sandstone and dolomitic limestone (Olcott, 1968; Young and Hindall, 1971; Young and Hindall, 1972; Oakes and Hamilton, 1971). Areas having more than 250 mg/l dissolved solids are characterized by thick deposits of glacial drift that includes fragments of dolomitic limestone, lake clay, and shallow dolomitic limestone (Young and Skinner, 1973; Skinner and Borman, 1970; Olcott, 1968; Cotter, Skinner, and Wentz, 1969).

The quality of water discharged from deep bedrock aquifers (fig. 5) is related to the chemical and physical character of the aquifers (fig. 4) and to the generally great length of time the water has been in contact with the rocks. The central and western areas of the State, having less than 250 mg/l dissolved solids in ground water, relate to sandstone aquifers in which the water generally moves only a few miles between recharge and discharge points (Hindall and Borman, 1972; Young and Borman, 1971; Devaul and Green, 1971). In the southern, eastern, and parts of the western areas, where dissolved solids range from 250 to 500 mg/l, ground water is generally deep and moves several miles between recharge and discharge points (Hindall and Skinner, 1971; Cotter, Skinner, and Wentz, 1969). The water in these aquifers is partly confined by layers of shale and dolomitic limestone.

Near the margins of the State, where dissolved solids are more than 500 mg/l (Skinner and Borman, 1970), ground water moves with extreme slowness in deeply buried sandstone and shale beds and may be locally restricted by

structural or lithologic barriers (Ryling, 1961 and Olcott, 1966) (fig. 5). Such water contains large amounts of sulfate, chloride, calcium, and magnesium. Highly mineralized and localized water in fractures and joints in Precambrian sandstone, basalt, and crystalline rock in northern Wisconsin is not shown on the map.

The source and significance of chemical constituents and properties commonly found in ground water are given in table 2.

Chemical analyses, given in table 1, indicate that nuisance amounts of iron, manganese, nitrate, and similar constituents occur locally in the "natural" ground waters of Wisconsin. Water high in iron content is derived generally from the glacial drift or from sandstone (Holt, 1964). In sandstone, iron content generally increases with restriction of ground-water movement (Olcott, 1966). In glacial drift, iron content is generally high in areas of poor drainage, such as wetlands (Holt, 1965 and Cline, 1965).

Fluoride content is significant in deep aquifers in eastern Wisconsin (fig. 6) (Holt, 1964), but fluoride content of ground water is low in the remainder of the State.

Hardness of ground water differs over most of the State. The softest water is in the north-central part, whereas the hardest is in the eastern, southern, and southwestern parts (Holt, 1964).

The temperature of ground water is generally uniform throughout the year, especially where 60 feet or more below the land surface (Summers, 1965). It approximates the average annual air temperature.

Interpretation of the chemical character of ground water in each of the principal river basins of the State is available from a series of 12 river-basin reports and from 15 county reports listed in the bibliography.

CONTAMINATION OF GROUND WATER

In Wisconsin, ground water is believed by many to be free from the threat of pollution. This belief is generally correct because many ground-water reservoirs are protected from surface pollutants by clayey soil and by thick layers of clay and shale. However, in areas where ground water is not thus protected, the possibility of contamination exists. Other means of protecting ground-water supplies will be forced upon users if increasing amounts and types of waste are disposed of in areas of ground-water recharge.

Most contamination of ground water in Wisconsin is local. Although ground-water contamination is reported from nearly every county, no evidence has been found that a major part of an aquifer is contaminated. Most contaminants introduced into ground water travel only a short distance before they are attenuated through dilution, absorption, and filtration or are discharged to streams and lakes.

Table 2.--SOURCE AND SIGNIFICANCE OF CHEMICAL CONSTITUENTS AND PROPERTIES LISTED IN TABLE 1.

Constituent or property	Principal source or cause	Significance
Iron (Fe) and Manganese (Mn)	Dissolved from the common iron- and manganese-bearing minerals. Iron is present in most rocks, whereas manganese is not as common. Both iron and manganese are often found in large quantities in acid waters.	Iron oxidizes to a reddish-brown sediment. Manganese oxidizes to a brown-black sediment. Stain utensils, enamelware, clothing, etc. Make water unsatisfactory for food processing, dyeing, laundering, bleaching, beverages, textiles, and processing of ice. USPHS (1962) drinking-water standards suggest that iron not exceed 0.3 mg/l, and manganese not exceed 0.05 mg/l.
Calcium (Ca) and Magnesium (Mg)	Dissolved principally from gypsum, limestone, and dolomite, but present in nearly all rocks. Large quantities are found in brines.	Impart hardness and scale-forming properties to water, soap consuming. (See hardness.) Make water unsuitable for laundries, steam plants, textile processing, and dyeing. USPHS (1962) drinking-water standards do not contain suggested limits for calcium or magnesium.
Sodium (Na) and Potassium (K)	Dissolved from practically all rocks and soils. Found also in sea water, brines, and sewage.	Cause boiler foaming when present in large amounts. Combine with chloride to give a salty taste. Large quantities limit use for irrigation.
Bicarbonate (HCO_3) and Carbonate (CO_3)	Formed by action of carbon dioxide in water on carbonate rocks, such as limestone and dolomite.	Raise the alkalinity and usually pH of water. In combination with calcium and magnesium, cause carbonate scale and carbonate hardness. Heating releases corrosive carbon dioxide. Not considered to be significant to general health.
Sulfate (SO_4)	Dissolved from shale and gypsum or formed by oxidation of sulfides. Commonly associated with coal mining. Contributed by some industrial wastes.	With calcium, forms hard scale in steam boilers. Imparts cloudiness to ice. Causes bitter taste when combined in large amounts with other ions. Calcium sulfate is considered to be beneficial in brewing processes. USPHS (1962) drinking-water standards recommend that sulfate content not exceed 250 mg/l.
Chloride (Cl)	Dissolved in varying amounts from all soils and rocks. Also found in brines, sea water, and sewage.	Calcium and magnesium chloride may increase the corrosive activity of water. In large amounts gives salty taste. USPHS (1962) drinking-water standards recommend that chloride content not exceed 250 mg/l.
Fluoride (F)	Small amount dissolved from most rocks and soils. Fluoride concentrations over 1 mg/l usually found in association with sodium waters. Primary source of high concentrations is industrial waste. Added to many municipal supplies by fluoridation.	May cause mottling of enamel on teeth of children if present in amounts in excess of 1.5 mg/l. About 1 mg/l reduces incidence of tooth decay in children (Maier, 1950). USPHS recommends control limits based upon annual average of maximum daily air temperatures. (See USPHS Advisory Committee Report, 1962: Publication No. 956, p. 8.) The optimum for Wisconsin is about 0.7 mg/l, and about 1.4 mg/l is considered the upper limit.
Nitrate (NO_3)	Contributed principally by decaying organic matter, nitrate fertilizers, and sewage. Small amounts available from most rocks and soils.	Investigations by Comly (1945) indicate that high concentrations (more than 44 mg/l expressed as NO_3) may cause methemoglobinemia (infant cyanosis). USPHS (1962) drinking-water standards suggest a limit of 45 mg/l. Encourages growth of algae and other organisms that produce undesirable tastes and odors. Higher than local average may indicate pollution.
Dissolved solids	Dissolved mineral constituents, the principal ones of which are listed above in this table.	USPHS (1962) drinking-water standards recommend that dissolved solids should not exceed 500 mg/l; however, 1,000 mg/l is considered to be usable under certain circumstances. Water containing more than 1,000 mg/l dissolved solids is unsuitable for many purposes.
Hardness as CaCO_3	In most water nearly all the hardness is due to calcium and magnesium. Iron and manganese also cause hardness.	Hard water consumes soap before a lather will form, deposits soap curd on bathtubs, and forms scale in boilers, water heaters, and pipes. Water of hardness less than 60 mg/l is considered soft; 61 to 120 mg/l, moderately hard; 121 to 180 mg/l, hard; more than 180 mg/l, very hard (Swenson and Haldwin, 1965, p. 17).
pH (hydrogen ion concentration or activity)	A measure of the acidity or basicity of water. Acids, acid-generating salts, and free carbon dioxide lower the pH. Carbonates, bicarbonates, hydroxides, phosphates, silicates, and borates generally raise the pH.	A pH of 7.0 indicates neutrality of a solution. As values increase higher than 7.0, alkalinity increases; as values decrease below 7.0, acidity increases. Corrosiveness of water generally increases with decreasing pH. However, excessively alkaline water also may attack metals. Water pH that tends to remain near neutral when counteracted by an acid or base is considered to be buffered.
Temperature	Results from climatic conditions, use of water as a cooling agent, or industrial activities.	Affects usefulness of water for many purposes. For most uses, water of uniformly low temperature is desired. Shallow well-water temperature fluctuates seasonally. Ground water from moderate depths is nearly constant in temperature, which is near the mean annual air temperature of the area. In very deep wells, water temperature generally increases about 1°F with each 60 feet increment of depth. Seasonal fluctuations in temperature of surface water are comparatively large, depending on the volume of water.

Contamination of ground water occurs generally within shallow aquifers of sand and gravel or in dolomitic limestone unprotected by overlying clayey soils or by shale. Areas having the greatest potential for shallow ground-water contamination are as follows:

1. Outwash and river alluvium overlain by permeable soils--such as the sand plain of central Wisconsin, the outwash near the Kettle Moraine of south-eastern Wisconsin, the outwash sands of Barron County, and the valleys of the lower Rock and Wisconsin Rivers.
2. Limestone (dolomite) at or near the surface or overlain by permeable sand and gravel, such as in southwestern Wisconsin and in Door County.
3. Crystalline rock overlain by thin soils and sand, such as in north-central Wisconsin.

In a small area of southeastern Wisconsin, "natural" highly mineralized water may be encroaching locally into fresh-water zones (Ryling, 1961 and Olcott, 1966). In the northern part of Milwaukee County, fresh water near deeply buried saline water is being monitored to detect possible changes in quality and movement toward centers of pumping. In central and eastern Sheboygan County, saline water in the sandstone aquifer may be invading fresh water in the St. Peter Sandstone because of pumping, and entering the Niagara Dolomite through wells having deteriorated casings (Skinner and Borman, 1970). Improper construction of wells and the deterioration of casing and seals are common causes for contamination of both shallow and deep ground-water supplies. A well-construction and pump-installation code of the Wisconsin Department of Natural Resources (1953) is designed to protect ground-water supplies from surface and near-surface contaminants. This code specifies depth and type of casing, cementation, plugging, and other methods for safeguarding the quality of ground water. Proper construction of wells and a knowledge of ground-water occurrence and movement contribute greatly to protection of ground-water quality.

MONITORING OF CHANGES IN QUALITY OF GROUND WATER

Determining the short-term, as well as the long-term, changes in ground-water quality resulting from contaminants on or below the land surface may become increasingly necessary. Contamination sources include solid- and liquid-waste disposal and storage sites, septic tanks, irrigated fields, and others. Rapidly increasing use of the land surface for disposal of liquid and solid waste (subject to leaching), increased pumping of wells, and similar activities will contaminate ground water in places where it is not acceptable.

Because movement of contaminated ground water cannot be delineated as readily as that of contaminated surface water, changes in quality and movement of pollutants are determined by monitoring through a network of sampling wells.

Objectives for monitoring ground water include the following:

1. Determine whether contaminated water is moving toward a well, spring, stream, or lake.

2. Determine the distribution, direction, and rate of movement of contaminated water from point and area sources.

3. Determine changes in the quality of "natural" ground water and in the character of the contaminant.

Most contaminants move with ground water under the influence of gravity and differences in pressure from points of high potential to points of low potential. However, some contaminants, such as gasoline or sulfite liquor, may move at different rates than ground water.

The monitoring of local changes in ground-water quality and the movement of contaminants from point and area sources requires sample collection at frequent intervals, certainly more frequent than the regional monitoring interval of 1 year.

CONCLUSIONS

The collection of information on ground-water quality, ideally, would define the "natural" chemical character of each substantial body of fresh ground water that is used or is usable. The data so collected could constitute the base for comparison with future changes in ground-water quality. In extensive aquifers where the quality is nearly uniform and varies little with time, such as the sandstone aquifer of southern Wisconsin, present spacing of sampling points may adequately define the quality. However, less extensive aquifers, such as sand and gravel deposits in glacial drift and those of less uniform character, such as fractured dolomitic limestone, require more closely spaced networks of sampling points for adequate definition. Commonly, a one-time sample from each point in the network would define the "natural" quality of the several waters.

Multidepth arrays of sampling points could differentiate chemically dissimilar waters at different depths in the same aquifer or in multiple aquifers.

Monitoring of long-term and regional changes in quality of ground water, ideally, would include less extensive and less uniform aquifers. Collecting samples from wells tapping representative aquifers, in which hydrogeologic-framework or model studies have described the behavior of water, would give optimum results with the least cost. Samples collected at intervals greater than 1 year would probably indicate changes in ground-water quality.

Contaminants from the land surface jeopardizing the "natural" quality of ground water can be monitored wherever it is essential for protection. A monitoring prerequisite would be to define the hydrogeologic framework, which directly relates to the movement of water and contaminants carried in the water. The frequency of sampling would depend on the hydrogeology and spacing of sampling wells in relation to the source of contamination. Another prerequisite would be to evaluate the "natural" quality of the ground water in relation to the characteristics of the particular contaminants. A three-dimensional array of sampling wells could be used to monitor the direction and extent of movement of contaminated water.

Knowledge of "natural" chemical character of ground water and functioning of the hydrogeologic framework is necessary for water planning and managing. Optimum planning and managing would include monitoring changes in quality of ground water, in time and space, as dictated by changes in water use and disposal of contaminants.

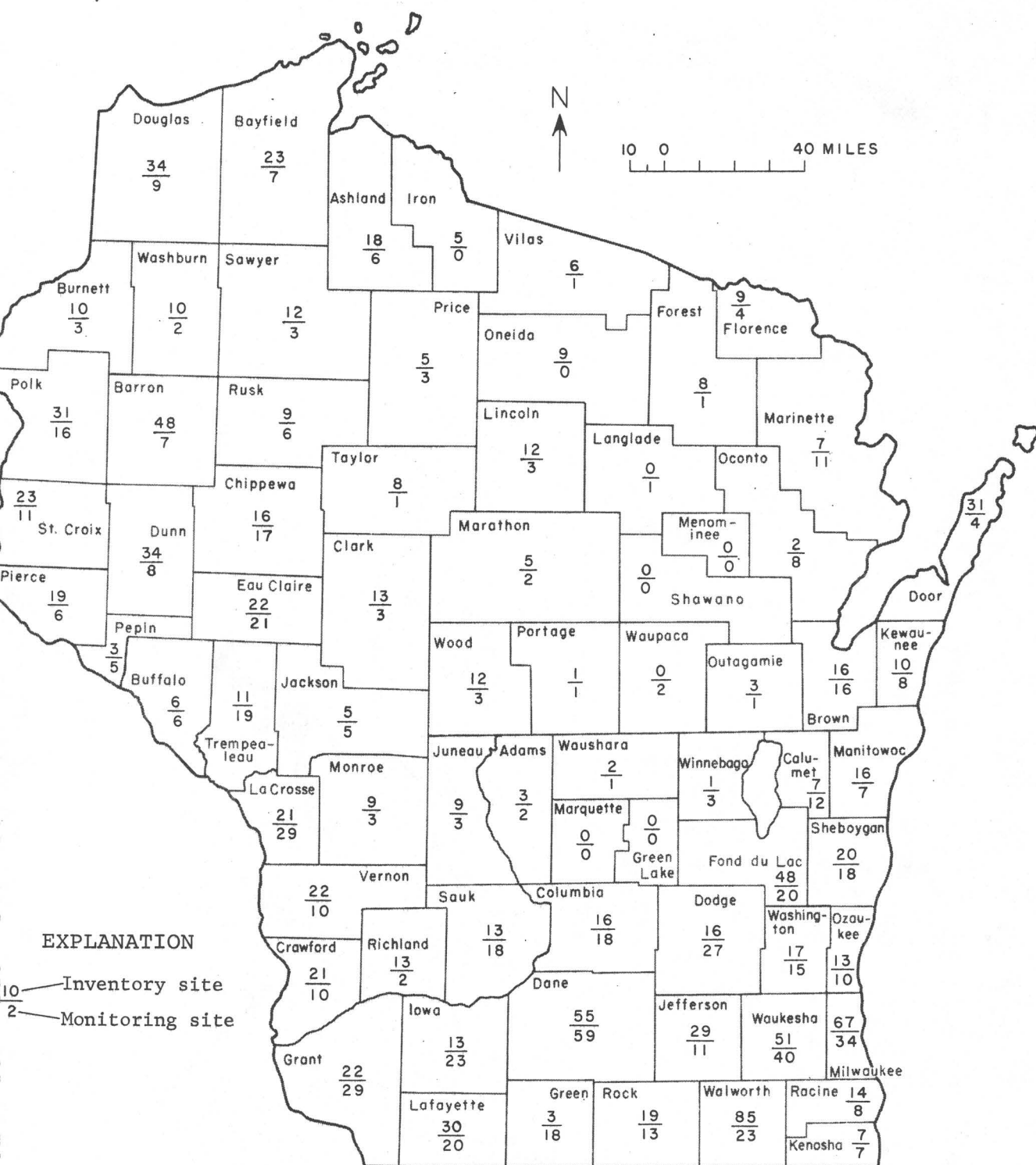


Figure 1. Distribution of ground-water-quality sampling sites.

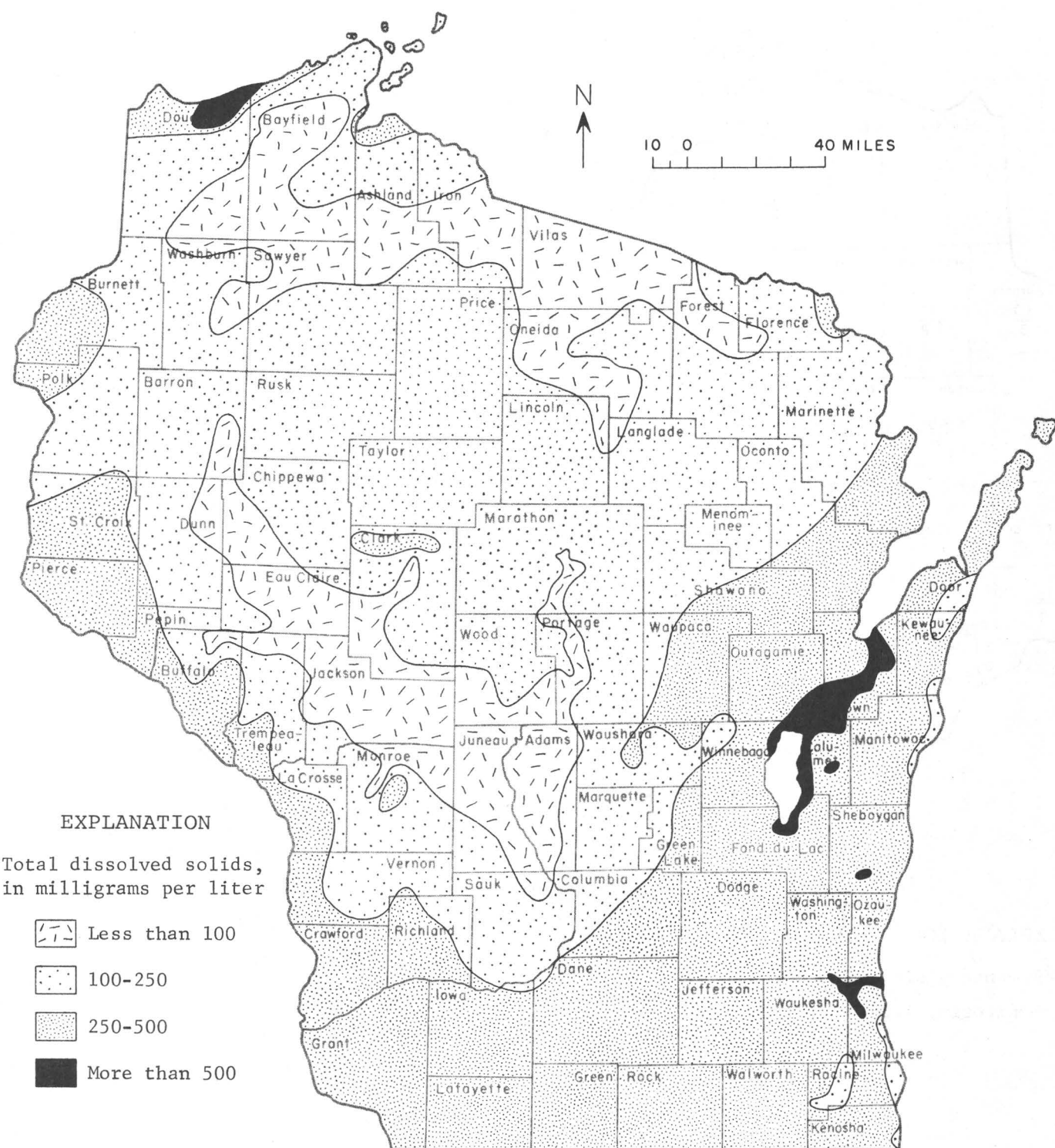


Figure 2. Quality of water in glacial drift and shallow bedrock.

Figure 3

WISCONSIN GLACIAL DEPOSITS

after Thwaites, 1956

0 40 80
SCALE OF MILES



University of Wisconsin

Wisconsin Geological and Natural History Survey

George F. Hanson, Director and State Geologist

SHORT HISTORY OF THE ICE AGE IN WISCONSIN

The Pleistocene Epoch or "Ice Age" began about 1,000,000 years ago which, in terms of geologic time, is a very short time ago. There were four separate glacial advances in the Pleistocene each followed by an inter-glacial period when the ice receded. The fourth glacial stage is called the Wisconsin Stage because it was in this State that it was first studied in detail.

The glaciers were formed by the continuous accumulation of snow. The snow turned into ice which reached a maximum thickness of almost two miles. The ice sheet spread over Canada and part of it flowed in a general southerly direction toward Wisconsin and neighboring states.

The front of the advancing ice sheet had many tongues or "lobes" whose direction and rate of movement were controlled by the topography of the land surface over which they flowed and by the rates of ice accumulation in the different areas from which they were fed.

The ice sheet transported a great amount of rock debris called "drift". Some of this was deposited under the ice to form "ground moraine" and some was piled up at the margins of the ice lobes to form "end moraines". "Drumlins" are elongated mounds of drift which were molded by the ice passing over them and hence indicate the direction of ice movement.

The pattern of end moraines, in red, shows the position that was occupied by four major ice lobes. One lobe advanced down the basin of Lake Michigan, another down Green Bay, a third down Lake Superior and over the northern peninsula of Michigan and yet a fourth entered the state from the northwest corner. The well-known "Kettle Moraine" was formed between the Lake Michigan and Green Bay lobes. As the ice melted the drift was reworked by the running water. Large amounts of sand and gravel were deposited to form "outwash plains"; pits were formed in the outwash where buried blocks of ice melted and many of these are now occupied by lakes.

The action of the ice profoundly modified the landscape, smoothing off the crests of hills and filling the valleys with drift. In some places it changed the course of rivers forcing them to cut new channels such as that of the Wisconsin River at the Dells; elsewhere it dammed the valleys to create lakes such as those of the Madison area.

During recent years there have been intensive studies made of the polar ice caps, and methods have been developed for dating glacial events from the radioactivity of the carbon in wood, bones, etc. which are found in many of the deposits. The results of these studies are causing many previously accepted concepts to be changed or challenged.

We once thought that there were rather extensive glacial deposits older than Wisconsin age in the State, but age determinations do not support this. It was also thought that the ice left Wisconsin some 20,000 years ago but a forest at Two Creeks in Manitowoc County was buried under an advancing ice tongue only 11,000 years ago. Evidence is accumulating to indicate that ice may have occupied the so-called "Driftless Area" of the southwestern part of the State which hitherto has been held to be unglaciated.

Most scientists now believe that the cause of the Pleistocene "Ice Age" was due to variations in the solar energy reaching the earth, but how these may have occurred is still a matter of conjecture. We are still in the Ice Age and it is anybody's guess whether future millenia will see the melting of the ice caps and the slow drowning of our coastal cities, or the regrowth and once more the inexorable advance of the glaciers.

Figure 4 GEOLOGIC MAP OF WISCONSIN

Geological and Natural History Survey

George F. Hanson, Director and State Geologist

UNIVERSITY EXTENSION, UNIVERSITY OF WISCONSIN

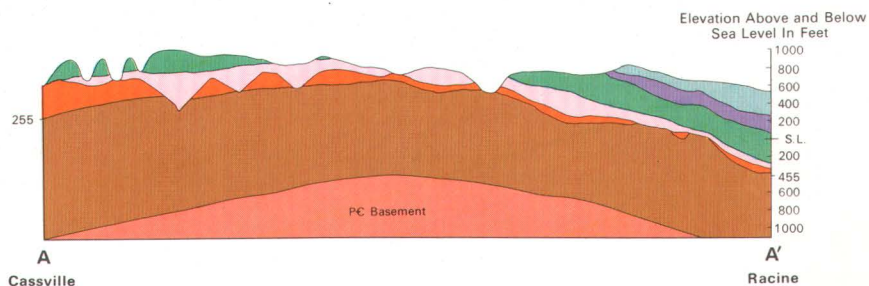
1971

0 30 60
SCALE OF MILES

LEGEND

- SILURIAN DEVONIAN**
- Devonian Formations (dolomite and shale)
 - Silurian Formations (dolomite)
 - Maquoketa Formations (shale and dolomite)
- ORDOVICIAN**
- Sinnipee Group (dolomite with some limestone and shale)
 - Ancell Group (mainly St. Peter Fm.) (sandstone, shale and conglomerate)
 - Prairie du Chien Group (dolomite)
- CAMBRIAN**
- Upper Cambrian Formations (sandstones with some dolomite and shale)
 - Upper Keweenaw Formations (sandstones with some shale and conglomerate)
- PRECAMBRIAN**
- Quartzite, Slate and Iron Formations
 - Gabbro and Basalt
 - Granite and Undifferentiated Igneous and Metamorphic Rocks
 - Granite and Undifferentiated Igneous and Metamorphic Rocks (sparse data)
- Border of Wisconsin (Cary) Drift
..... Border of Older Drift

0 10 20 30 40
HORIZONTAL SCALE IN MILES



SHORT GEOLOGIC HISTORY OF WISCONSIN

The bedrock of Wisconsin is separated into two major divisions: (1) older, predominantly crystalline rocks of the Precambrian Era; and (2) younger relatively flat-lying sedimentary rocks of the Paleozoic Era.

The Precambrian Era lasted from the time the earth cooled, over 4,000 million years ago, until the Paleozoic Era which began about 600 million years ago. During this vast period of 3,400 million years sediments, some of which were rich in iron and which now form iron ores, were deposited in ancient oceans; volcanoes spewed forth ash and lava; mountains were built and destroyed, and the rocks of the upper crust were intruded by molten rocks of deep-seated origin. Only a fragmentary record of these events remains but, as tree stumps attest to the presence of former forests, the rocky roots tell the geologist of the presence of former mountains. Nowhere does any trace of the original crust remain, and the oldest rocks yet found in the state are about 2,000 million years old. With the exception of the Upper Keweenaw formations that outcrop in the northwest, all of these rocks have been extensively deformed, and in many areas they are so highly altered that their original nature and origin are extremely difficult to interpret.

In the north-central part of the state surface outcrops are so sparse, due to a cover of glacial deposits, that details of the bedrock are obscured. In such areas the only clues to the underlying rocks are obtained indirectly by such geophysical methods as airborne magnetics. In the past much high-grade iron ore was produced from the Precambrian rocks of northern Wisconsin, and much low-grade ore ("taconite") awaits development. Recent geologic work indicates that the area has a high potential for finding ores of other metals such as copper.

At the close of the Precambrian Era most of Wisconsin had been eroded to a rather flat plain upon which stood hills of more resistant rocks as those now exposed in the Baraboo bluffs. There were still outpourings of basaltic lava in the north and a trough formed in the vicinity of Lake Superior in which great thicknesses of sandstone were deposited.

The Paleozoic Era began with the Cambrian Period, the rocks of which indicate that Wisconsin was twice submerged beneath the sea. Rivers draining the land carried sediments which were deposited in the sea to form sandstone and shale. Animals and plants living in the sea deposited calcium carbonate and built reefs to form rocks which are now dolomite—a magnesium-rich limestone. These same processes continued into the Ordovician Period during which, as indicated by the rocks, Wisconsin was submerged three more times. Deposits built up in the sea when the land was submerged were partially or completely eroded at times when they were subsequently elevated above sea level. During the close of the Ordovician Period, and in the succeeding Silurian and Devonian Periods, Wisconsin is believed to have remained submerged.

The youngest rocks outcropping in Wisconsin are of Devonian age and are about 350 million years old. Absence of younger rocks makes interpretations of post-Devonian history in Wisconsin a matter of conjecture. If the dinosaurs roamed Wisconsin, as well they might have some 200 million years ago, no trace of their presence remains. Available evidence from neighboring areas, where younger rocks are present, indicates that towards the close of the Paleozoic Era, perhaps some 250 million years ago, a period of gentle uplift began which has continued to the present. During this time the land surface was carved by rain, wind and running water.

The final scene took place during the last million years when glaciers invaded Wisconsin from the north and sculptured the land surface. They smoothed the hill tops, filled the valleys and left a deposit of debris over all except the southwest quarter of the State where we may now still see the land as it might have looked a million years ago.

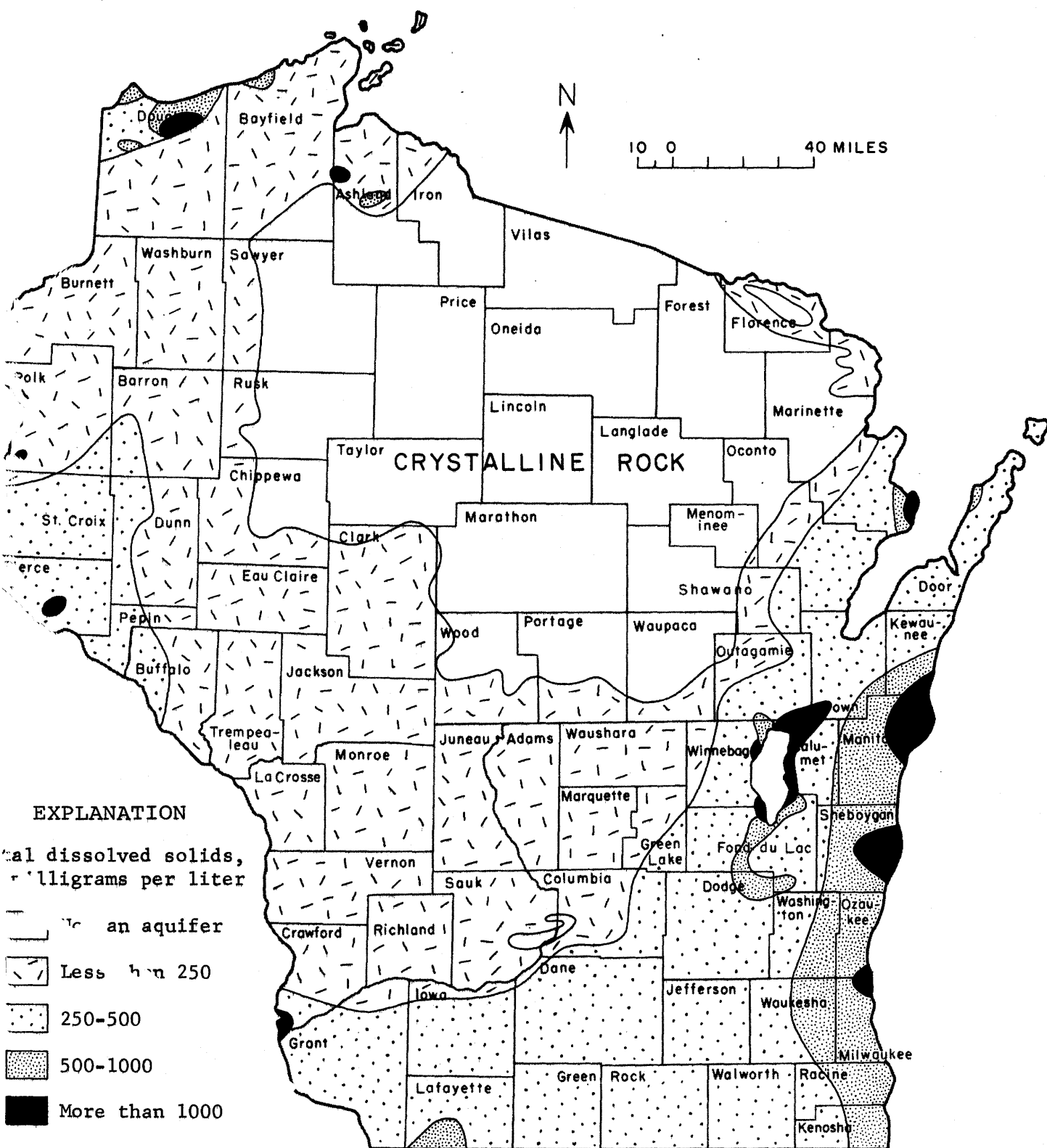


Figure 5. Quality of water in deep bedrock.

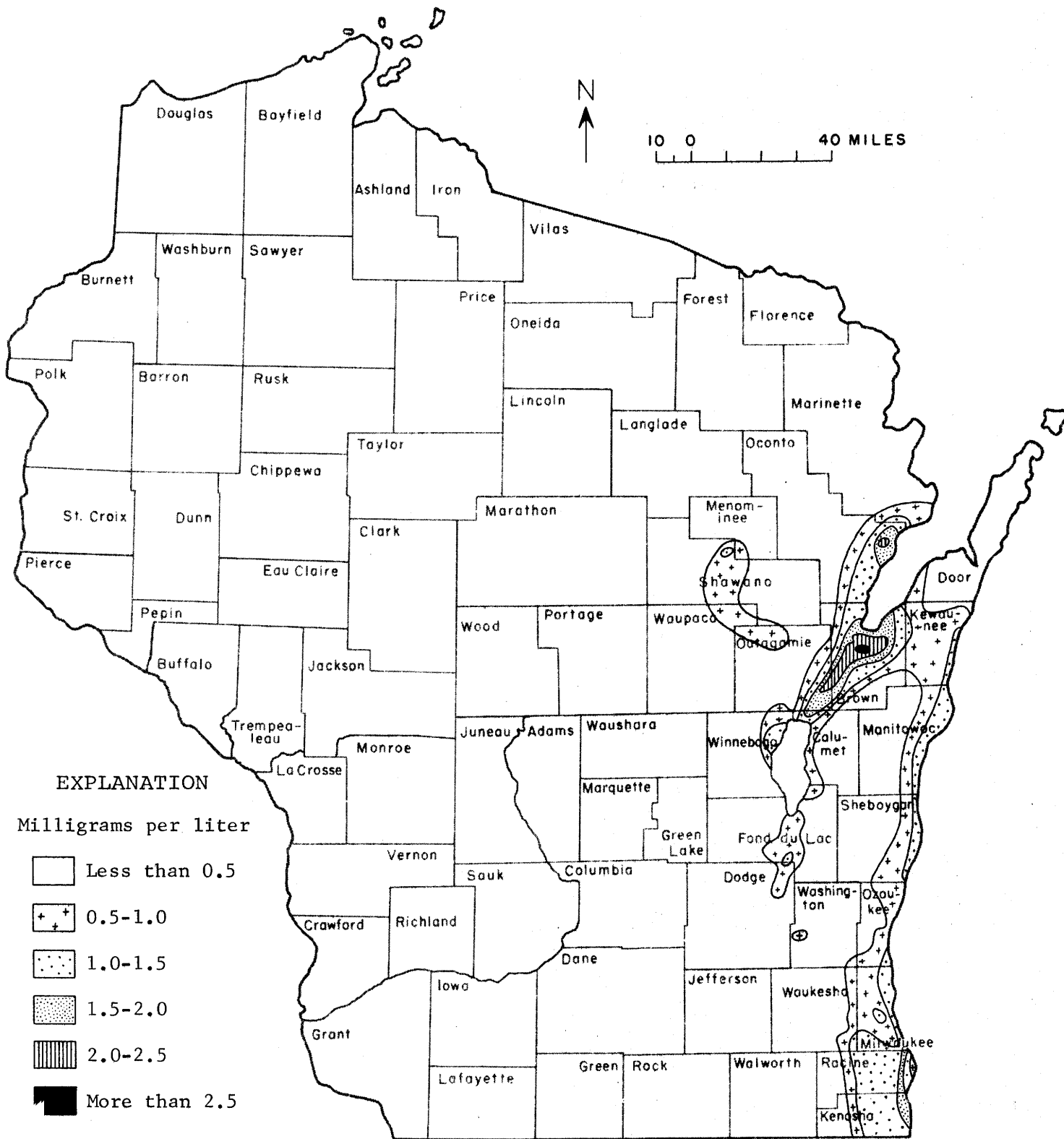


Figure 6. Fluoride in ground water.

EXPLANATION FOR TABLE 1

The table that follows is a statewide compilation of analyses of chemical constituents and physical properties of water from many aquifers. It includes analyses by the U.S. Geological Survey, the Wisconsin Department of Natural Resources, the Wisconsin Laboratory of Hygiene, and other government and private laboratories. The table represents data collected and coded in an automatic-retrieval format, principally as a result of the cooperative program between the U.S. Geological Survey and the Wisconsin Geological and Natural History Survey. Some of the work has been done in cooperation with the Wisconsin Department of Natural Resources. Work is continuing in the coding of historical data and the collection of new data on ground-water quality.

Table 1 is a printout of selected parameters from well records and the chemical analyses. Much more information is stored for the wells, and additional chemical-quality data are recorded for nearly all analyses. The selected parameters are summarized, as follows, in table 1.

WELL LOCATION AND CO NUMBER	<div style="text-align: center;">40/18/28-0007</div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> TownshipRangeSectionCounty identi- fication number </div>
OWNER	Name of well owner (abbreviated where necessary)
WELL DPTH	Depth of the well, in feet
AQUIFER	Principal water-bearing reservoir yielding water to the well
GLACIAL - unconsolidated glacial deposits	
NIAGARA - dolomite of Silurian age	
DOL-SS - any or all of the dolomite in the Galena-Platteville unit, the St. Peter Sandstone, and the dolomite of the Prairie du Chien Group	
SANDSTONE - principally Cambrian sandstone but may include formations within DOL-SS	
PRECAMB - rocks of Precambrian age: dense crystalline rock; also includes lava flows and the Lake Superior sandstone (of former usage) in northwestern Wisconsin	
MULTIPLE - a combination of two or more of the above aquifers	
DATE ANALYS	The date on which the water sample was collected: 062266 is June 22, 1966

FE +MN	The sum of iron and manganese concentrations, in milligrams per liter				
CA	Calcium concentration, in milligrams per liter				
MG	Magnesium	"	"	"	"
NA	Sodium	"	"	"	"
K	Potassium	"	"	"	"
HCO ₃	Bicarbonate	"	"	"	"
CO ₃	Carbonate	"	"	"	"
SO ₄	Sulfate	"	"	"	"
CL	Chloride	"	"	"	"
F	Fluoride	"	"	"	"
NO ₃	Nitrate	"	"	"	"
DIS SOLIDS	Dissolved-solids content, in milligrams per liter				
HARD- NESS	Hardness, in milligrams per liter as CaCO ₃				

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN

(PARAMETERS SELECTED FROM ANALYSES BY U.S.
GEOLOGICAL SURVEY, WISCONSIN STATE LABORATORY
OF HYGIENE, WISCONSIN DEPARTMENT OF NATURAL
RESOURCES, AND VARIOUS PRIVATE LABORATORIES)

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F }	NO 3	DIS. SOLIDS	HARD NESS	PH
ADAMS COUNTY																		
17/06/08-0003	CITY OF ADAMS	274	SANDSTONE	071966 082958	.17 .26	21 34	8.0 16	1.4 --	-- --	95 167	0 0	6.0 1.0	.8 1.0	.1 .1	3.1 --	82 144	85 134	7.7 7.4
17/06/08-0005	CITY OF ADAMS	240	SANDSTONE	071966 082958	.43 .39	30 32	12 16	1.9 --	-- --	150 163	0 0	4.0 .5	1.1 1.0	.1 .0	1.8 --	124 144	126 130	7.8 7.4
17/06/07-0035	C AND NW RR	64	GLACIAL	100764	.10	--	--	--	--	104	0	7.2	1.0	--	.1	115	88	8.2
19/07/01-0038	NICOL. CASTOR	57	GLACIAL	061164	1.76	--	--	--	--	56	0	7.2	1.0	--	4.6	72	56	7.5
15/07/06-0053	CIRCLE P FARMS	250	SANDSTONE	101564	1.11	--	--	--	--	62	2	8.8	1.0	--	.5	70	60	8.5
ASHLAND COUNTY																		
46/04/05-0001	LAKE SUP POWER	90	PRECAMB.	080148 072849	.70 --	972 --	55 --	1470 2480	34 --	39 39	0 0	180 180	4050 4150	.3 --	-- --	7490 7760	2700 2080	7.4 --
42/02/11-0002	TOWN OF JACOBS	106	GLACIAL	071266	.30	25	4.0	12	--	121	0	4.0	1.8	.4	1.8	120	79	8.0
43/02/32-0011	EDWARD DAVIDSON	43	GLACIAL	082156	9.60	--	--	--	--	--	--	--	--	--	--	--	--	--
44/02/05-0028	CITY MELLON	21	GLACIAL	092160	.30	21	4.2	3.0	4.0	90	0	6.2	.0	.2	--	114	74	7.2
44/02/05-0029	CITY MELLON	62	GLACIAL	071166	.06	24	5.0	3.0	1.2	93	0	8.0	1.2	.1	2.3	108	81	7.4
41/01/03-0039	ED ROBINSON	60	GLACIAL	052467	.08	--	--	--	--	77	0	6.8	1.0	--	1.0	88	76	7.1
41/01/21-0042	VILL BUTTERNUT	150	GLACIAL	050645	.00	31	9.1	--	--	130	0	6.4	5.0	.1	--	172	104	7.8
41/04/27-0044	MERLE KOPP	33	GLACIAL	052467	.70	--	--	--	--	49	0	0.8	0.8	--	.0	55	38	7.0
41/01/21-0053	VILL BUTTERNUT	54	GLACIAL	071266 022561	.20 .05	30 27	8.3 6.2	4.4 --	-- --	122 111	0 8	13 8.3	2.5 2.5	.1 .1	1.8 --	134 120	112 97	7.9 8.4
43/02/21-0054	STATE HWY COMM	73	GLACIAL	101470	.46	24	8.7	5.4	1.0	117	0	6.4	2.0	.2	.6	110	96	7.9
47/04/06-0060	PRENTICE PARK	--	GLACIAL	051367	.17	--	--	30	--	162	2	9.2	45	--	.0	262	141	8.4

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
ASHLAND COUNTY (CONTINUED)																		
45/02/31-0063	CITY OF MELLE	88	GLACIAL	103168	.07	35	9.0	3.8	--	124	0	7.0	5.0	.3	8.0	160	124	8.1
45/03/12-0066	CLEMENCE DALE	172	PRECAMB.	100170	.25	33	5.0	245	3.5	92	2	8.0	380	.5	.0	744	103	8.5
44/04/14-0067	U S FOREST SERV	50	GLACIAL	100170	.39	17	6.6	1.4	1.1	50	5	9.6	1.5	.2	.1	67	60	8.7
48/03/30-0068	TRINDA KOTECKI	165	PRECAMB.	120170	.09	24	7.2	21	5.8	102	0	26	18	.4	.0	164	90	7.8
48/02/32-0069	BAD R HOUSING	178	GLACIAL	100170	.23	44	23	12	2.4	262	0	9.2	1.5	.8	.1	225	200	7.9
				013167	.12	--	--	--	--	237	0	--	--	.2	.4	--	192	8.2
46/04/22-0070	D RICHARDSON	182	GLACIAL	093070	.21	31	13	11	1.5	180	0	3.6	1.0	.1	.1	161	130	8.1
46/04/11-0071	GEORGE PLIZKA	147	PRECAMB.	093070	.23	16	3.7	46	4.4	122	0	22	25	.6	.0	180	55	8.2
50/3W/4C-0072	THEODORE GARY	130	PRECAMB.	092970	.04	57	16	5.9	2.6	260	0	7.6	.5	.0	1.0	244	208	7.3
46/04/06-0073	LAKE SUP POWER	78	PRECAMB.	102472	.66	55	4.1	140	4.0	144	0	17	220	.3	.0	567	150	8.0
				031472	.21	53	5.3	140	5.6	132	0	17	240	.4	.1	576	150	7.8
48/02/32-0094	BAD R HOUSING	174	GLACIAL	120766	2.36	27	--	--	--	237	0	--	2.0	--	--	232	184	8.0
47/04/05-0096	ASHLAND IRON ST	3095	PRECAMB.	010189	--	120	34	166	--	522	--	14	255	--	--	--	440	--
				010189	--	82	25	197	--	349	--	20	303	--	--	--	308	--
				010189	--	149	81	180	--	154	--	85	624	--	--	--	705	--
48/04/33-0097	CITY OF ASHLAND	60	GLACIAL	071266	.06	41	15	26	.0	124	0	12	73	.4	1.8	248	164	7.9
				021863	.03	37	15	30	1.8	127	0	10	75	.2	.5	274	154	7.8
				041555	.00	39	14	21	17	123	0	6.2	81	.2	--	302	156	8.0
46/04/36-0100	WALTER MEYER	230	PRECAMB.	080370	.09	4.2	.5	55	12	112	7	7.5	25	.6	.0	172	12	8.7
BARRON COUNTY																		
35/13/06-0001	CITY CUMBERLAND	230	---	012164	.89	30	10	--	--	139	0	1.0	1.0	.1	2.3	142	116	7.8
				060646	1.40	32	8.0	--	--	139	0	1.0	2.5	.1	--	150	100	7.6
35/13/07-0002	CITY CUMBERLAND	390	SANDSTONE	012164	.07	40	14	--	--	185	0	1.0	1.5	.1	3.4	182	158	7.6
				060646	.00	39	14	--	--	201	0	.5	3.0	.1	--	190	156	7.4
35/13/06-0003	CITY CUMBERLAND	395	SANDSTONE	012164	.23	34	13	--	--	166	0	--	2.0	.0	.3	154	136	7.9
				102650	.00	34	13	--	--	171	0	1.5	4.0	.1	--	160	144	7.4
35/13/07-0006	STELLA CHEESE C	193	---	010361	.02	18	.0	--	--	62	0	8.9	4.0	.0	15	114	66	7.1

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
BARRON COUNTY (CONTINUED)																		
33/10/30-0009 CITY CHETEK		261	SANDSTONE	072166	.06	12	1.7	2.8	--	29	0	7.0	4.0	.2	8.4	80	37	6.5
35/11/21-0013 CITY RICE LAKE		465	SANDSTONE	051546	.00	21	7.2	--	--	95	0	7.5	9.5	.1	--	130	81	6.7
35/11/21-0014 CITY RICE LAKE		412	SANDSTONE	051546	.40	27	8.9	--	--	127	0	2.0	15	.1	--	150	92	7.0
35/11/21-0015 CITY RICE LAKE		350	SANDSTONE	072066	.11	31	2.3	7.2	--	112	0	4.0	4.5	.2	.2	140	87	2.8
				051546	.20	19	6.7	--	--	100	0	1.5	6.5	.1	--	112	69	6.8
32/13/21-0026 PRAIRIE FARM SC		159	GLACIAL	052467	1.99	--	--	--	--	186	0	10	.2	--	.2	176	156	7.0
33/10/14-0031 CHARLES GULANO		29	GLACIAL	102372	.17	29	7.8	3.3	.1	24	0	8.2	17	.1	80	196	100	6.9
				053172	.04	26	7.9	3.1	.5	23	0	7.4	20	.1	65	182	98	6.6
33/10/25-0033 B DOBOROWOLSKI		38	GLACIAL	052567	.06	--	--	--	--	40	0	9.6	9.0	--	28	103	64	7.2
33/11/09-0034 RED CEDAR PLTRY		33	SANDSTONE	053172	.04	26	7.9	3.1	.5	23	0	7.4	20	.1	65	182	98	6.6
33/14/18-0052 HELEN MILLER		90	GLACIAL	052567	.07	--	--	--	--	156	2	5.2	5.0	--	8.6	181	140	8.3
34/10/05-0054 HALVORSEN SCHL		50	GLACIAL	052567	2.00	--	--	--	--	46	0	4.8	2.0	--	1.3	73	38	6.8
34/11/25-0062 POKEGAMA SCHOOL		80	GLACIAL	060172	.00	24	9.0	11	.6	40	0	33	14	.1	38	195	97	6.6
34/11/28-0063 VILL OF CAMERON		164	---	072066	.15	21	4.9	7.1	--	70	0	12	4.4	.1	14	120	73	6.8
				010861	.02	18	4.1	--	--	62	0	8.8	4.0	.0	15	114	66	7.1
34/12/27-0069 CITY OF BARRON		400	SANDSTONE	111665	.06	30	11	14	1.5	107	0	22	25	.1	5.5	198	122	6.4
34/12/28-0070 CITY BARRON		427	SANDSTONE	111665	.38	14	3.6	2.4	0.7	68	0	1.0	3.0	.1	1.2	100	50	6.6
34/12/27-0071 BADGER TURKEY		390	SANDSTONE	101853	--	--	--	--	--	--	--	--	22	--	--	233	91	--
34/14/30-0081 VIL TURTLE LAKE		739	SANDSTONE	072066	.06	57	17	4.2	--	246	0	9.0	6.0	.1	12	270	215	7.8
36/14/06-0106 MERLE VAN METER		215	SANDSTONE	060368	.12	13	5.2	--	--	64	0	4.0	1.5	--	4.2	75	54	7.3
34/12/24-0113 M F MOMMSEN		73	GLACIAL	060972	.03	24	7.0	3.9	.7	54	0	15	12	.0	23	152	89	7.4
35/11/02-0129 NUTO FARM SUPPLY		90	GLACIAL	060972	.00	24	5.2	4.5	.7	73	0	6.2	10	.0	15	136	82	7.0
34/12/22-0131 MERLIN GARDNER		55	GLACIAL	040672	.10	14	6.6	4.0	.5	60	0	5.0	5.0	.1	12	106	62	6.8
33/11/05-0132 MARVIN HANSON		80	SANDSTONE	040672	.05	20	2.9	3.5	1.1	41	0	6.4	5.0	.1	28	118	62	6.6
34/12/27-0135 CITY OF BARRON		421	SANDSTONE	111665	.06	27	8.8	3.2	.5	122	0	3.5	7.0	.1	3.4	140	104	6.5

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
BARRON COUNTY (CONTINUED)																		
33/10/30-0139	CITY OF CHETEK	274	SANDSTONE	072166	.06	10	1.7	2.1	--	28	0	5.0	1.4	.2	8.4	72	32	6.6
32/12/14-0139	VILL OF DALLAS	225	MULTIPLE	072166	.25	15	15	1.8	--	104	0	12	.2	.2	2.2	114	101	7.0
34/11/25-0144	M F MOMMSEN	90	GLACIAL	060972	.91	24	7.0	4.3	.6	53	0	5.8	16	.0	32	164	89	6.7
34/11/21-0149	VILL OF CAMERON	383	SANDSTONE	072066	.33	15	4.7	2.7	--	66	0	2.0	.5	.2	4.0	86	57	7.1
34/14/24-0150	VILL OF ALMENA	174	SANDSTONE	072066	.36	32	9.4	3.7	--	154	0	3.0	1.6	.2	2.2	150	119	7.7
35/10/18-0151	RICHARD SAFFERT	136	SANDSTONE	040572	.01	16	3.2	3.3	.8	53	0	1.8	4.5	.1	8.6	95	53	6.7
35/13/07-0152	CITY CUMBERLAND	295	SANDSTONE	012164	.19	47	19	--	--	229	0	2.0	2.5	.1	6.5	222	194	7.5
34/10/22-0153	STATE HWY COMM	132	SANDSTONE	051872	.35	3.1	1.6	2.7	1.7	12	0	3.4	6.0	.0	6.5	50	14	6.4
				061070	1.45	4.0	2.1	2.6	2.0	14	0	2.9	3.1	.1	7.5	43	18	5.9
				072969	.40	3.3	1.9	2.8	1.7	13	0	4.8	4.0	.0	9.1	48	16	5.9
33/11/09-0156	M F MOMMSEN	76	GLACIAL	053172	.02	15	4.8	2.8	.7	36	0	7.8	6.0	.1	24	113	57	7.0
34/13/14-0159	WILLIAM E LANE	--	---	052567	32.00	--	--	--	--	86	0	7.2	3.0	--	3.1	119	74	6.5
36/13/20-0160	H STEINBURG	70	GLACIAL	052467	.10	--	--	--	--	150	0	7.6	4.0	--	2.9	174	130	7.9
32/14/14-0188	HERMAN HOLUM	124	SANDSTONE	040268	.49	--	--	--	--	154	0	9.2	3.5	--	13	192	140	7.9
36/11/19-0193	JAMES UCHYTIL	76	GLACIAL	040572	.06	44	11	4.2	1.1	164	0	10	8.0	.1	9.5	210	160	7.3
36/10/30-0194	RICHARD SIREK	38	GLACIAL	040572	.37	20	6.6	3.6	.9	84	0	5.4	4.5	.1	8.6	116	77	6.9
36/11/15-0195	ALLEN MUSIL	49	GLACIAL	040572	.05	16	2.3	3.6	1.1	48	0	6.4	4.0	.6	12	91	50	6.5
36/11/11-0196	BETTY HERRICKS	43	GLACIAL	040572	.05	20	5.4	3.6	1.3	76	0	6.2	4.0	.1	10	116	72	6.9
35/10/03-0197	LLOYD SMITH	40	GLACIAL	040572	.03	12	3.5	3.4	.7	50	0	4.6	2.0	.1	4.6	79	44	6.9
36/11/27-0198	ROLAND HAYES	57	GLACIAL	040572	.03	17	3.9	3.4	1.1	55	0	8.0	3.5	.1	8.1	93	58	6.9
35/11/14-0199	MONSON BROTHERS	86	GLACIAL	040572	.04	15	6.2	3.6	.9	72	0	3.8	2.0	.1	3.7	99	63	6.8
33/11/24-0201	DALE ALBRECHT	48	SANDSTONE	053172	.06	8.2	2.3	3.0	1.1	16	0	8.6	3.5	.2	14	67	30	6.2
33/11/24-0202	AL CHMEL	59	GLACIAL	053172	.02	9.7	3.6	2.6	.6	30	0	9.4	.0	.1	14	69	38	7.0
34/11/07-0210	ARJELL LOVERUDE	62	GLACIAL	060172	.06	7.7	2.9	3.7	.6	30	0	1.9	4.0	.1	6.9	79	31	7.0

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
BARRON COUNTY (CONTINUED)																		
34/11/23-0211 FRED GEHLER		63	GLACIAL	060172	.00	24	7.0	5.0	.4	78	0	11	11	.1	16	146	89	6.9
34/12/10-0219 MERLIN GARDNER		84	GLACIAL	060172	.02	19	9.4	4.3	.3	104	0	3.2	4.0	.1	7.0	130	86	7.4
34/12/30-0222 1ST LUTH CH CEM		115	SANDSTONE	060172	3.79	7.5	3.8	2.8	.4	47	0	.6	4.0	.2	.0	58	34	6.5
34/12/30-0224 RAY HICKOK		40	SANDSTONE	053172	.26	10	3.2	3.5	3.5	39	0	11	6.8	.0	7.7	83	38	6.0
35/11/05-0231 FRED SMITH		57	GLACIAL	061372	.37	19	5.2	3.0	.5	77	0	4.6	6.5	.0	.2	88	69	7.4
35/11/10-0232 WARREN ERIKSON		245	SANDSTONE	060172	.02	18	7.7	3.9	.3	99	0	2.6	3.9	.1	1.7	116	76	7.0
35/11/33-0236 NO STATES PWR		100	GLACIAL	060172	.16	19	7.7	4.5	.4	67	0	6.4	17	.1	14	131	79	6.6
BAYFIELD COUNTY																		
50/04/20-0001 BAYFLD HATCHERY		804	PRECAMB.	031572	.10	41	11	22	2.9	126	0	5.4	64	.3	.4	232	150	7.5
				092970	.02	37	12	17	2.4	126	0	8.8	50	.3	.1	210	142	8.1
50/04/13-0006 L SUP PUB SERV		627	PRECAMB.	071266	.10	22	5.8	2.0	1.2	98	0	3.0	.8	.1	1.8	90	79	7.4
				102356	.00	20	6.6	3.2	--	98	0	1.5	1.0	.1	--	100	78	7.6
				060545	.00	20	6.0	4.2	--	95	0	1.0	3.0	.1	--	94	76	7.8
50/04/13-0007 L SUP PUB SERV		340	PRECAMB.	071266	.06	20	7.0	19	.0	93	0	2.0	1.2	.1	--	84	79	7.6
				102356	.00	20	5.9	2.6	--	94	0	.5	1.0	.1	--	96	74	8.2
				060545	.00	20	6.4	4.8	--	99	0	1.5	3.0	.1	--	102	74	7.2
48/04/06-0009 CITY WASHBURN		--	PRECAMB.	041957	.00	25	8.9	8.4	--	132	0	1.3	5.0	.3	--	124	104	7.5
50/06/21-0014 TOWN OF BELL		175	GLACIAL	092870	.24	44	11	2.7	1.4	189	0	5.6	1.0	.1	.7	170	155	8.0
50/07/20-0017 CLAYTON OBRIEN		139	PRECAMB.	092870	.04	14	3.6	.6	1.2	61	0	.8	.0	.4	.1	67	50	7.4
50/08/29-0019 HARRY ANDERSON		110	PRECAMB.	061272	3.07	94	48	96	31	60	0	22	420	.3	.0	948	430	7.3
				092870	20.65	98	49	98	27	66	0	4.8	440	.4	.0	866	450	6.6
51/04/04-0025 PAUL TRIBOVICH		257	PRECAMB.	101570	.15	39	17	3.2	1.6	200	0	2.8	1.0	.2	4.2	199	168	7.5
47/05/10-0037 ASHLAND EXP STA		230	PRECAMB.	092970	.10	67	18	24	2.3	154	0	9.6	112	.4	.0	377	241	7.8
47/06/35-0043 BENOIT SCHOOL		162	GLACIAL	093070	.03	29	8.2	4.0	1.4	134	0	4.4	2.0	.3	.4	123	106	8.1
47/08/07-0045 DAHLBERG LT POW		1100	---	010135	.00	--	--	--	--	134	--	3.0	9.0	--	.0	146	54	--

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
BAYFIELD COUNTY (CONTINUED)																		
48/08/35-0049	STANLEY WILCOX	13	GLACIAL	051965	7.86	--	--	--	--	47	0	3.2	1.0	--	.3	53	39	6.3
45/07/37-0075	DRUMMOND COOP	94	GLACIAL	071266	.06	37	8.0	2.5	--	144	0	6.0	1.9	.1	2.2	134	126	7.8
45/09/26-0085	BARNES TOWNSHIP	37	GLACIAL	060469	.10	11	3.2	1.6	.4	36	5	4.4	.5	.1	3.3	51	40	8.8
51/03/31-0087	ALEX GOKEE	120	PRECAMB.	092870	.15	26	8.5	1.8	1.4	120	0	6.8	.5	.2	.5	108	100	7.6
43/07/20-0095	F J MOREHOUSE	12	GLACIAL	033058	.00	17	9.0	--	--	--	0	--	--	--	--	--	83	6.6
48/06/35-0097	PAUL FARKAS	173	GLACIAL	092970	.03	19	5.4	1.8	.6	84	0	4.8	1.0	.0	.1	80	70	8.1
49/08/35-0123	STANLEY WILCOX	160	GLACIAL	051965	2.91	--	--	--	--	38	0	5.2	2.0	--	.1	41	31	6.8
47/08/06-0124	STATE HWY COMM	300	GLACIAL	092870	.16	22	6.0	2.7	1.3	103	0	2.8	.5	.3	.3	104	80	8.2
49/04/37-0134	CITY WASHBURN	605	PRECAMB.	080770	.06	22	8.0	9.0	9.4	105	0	3.0	21	.3	.2	124	88	8.0
				080169	.10	--	--	--	--	90	0	--	13	.4	.5	--	80	7.5
				111169	.16	24	7.0	7.5	--	107	0	2.0	8.0	.4	1.8	114	88	7.7
48/04/05-0135	CITY WASHBURN	624	PRECAMB.	102469	.07	17	5.0	--	--	78	0	--	11	.5	.4	--	64	7.5
48/06/22-0136	FAITH LUTHERAN	180	GLACIAL	071472	.88	28	6.8	3.0	.9	110	0	5.8	3.0	.1	11	124	98	8.0
				093070	.29	29	9.7	2.9	.7	116	0	9.6	3.0	.0	20	134	112	8.0
45/06/27-0137	PAUL SIMMONS	190	PRECAMB.	093070	.70	29	9.7	4.6	.2	138	0	5.6	.0	.1	.0	122	110	8.0
46/05/25-0138	VICTOR TODY	205	GLACIAL	093070	.11	23	5.3	27	1.5	124	0	5.6	21	.2	.1	152	80	8.0
49/06/36-0139	BIRCH GROVE CPG	175	GLACIAL	092970	.55	23	5.9	2.0	.7	96	0	5.8	2.0	.1	.0	91	82	7.4
47/08/06-0142	B A MACLEAN	23	GLACIAL	110457	--	--	--	--	--	34	0	--	--	--	--	--	22	7.4
51/03/31-0144	RED CLIFF IND R	200	PRECAMB.	011970	.07	--	--	--	--	--	--	--	--	--	.7	--	104	7.6
50/04/22-0149	PURE AIR SANITH	--	PRECAMB.	060170	2.91	20	7.0	2.5	5.3	107	0	2.0	1.0	.1	.0	102	80	7.9
48/05/14-0154	WALTER SWANSON	114	---	060165	.16	--	--	--	--	--	--	--	--	--	--	--	167	--
48/05/35-0167	JOE BERWEGER	399	GLACIAL	102572	.63	17	3.6	2.8	.1	68	2	3.2	1.2	.1	.5	69	58	8.3
				031572	.05	16	3.5	3.1	1.1	70	0	3.0	2.0	.1	.4	76	54	7.9

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
BROWN COUNTY																		
24/20/34-0001 CITY GREEN BAY		865	SANDSTONE	011052	.17	49	21	15	4.4	240	0	36	12	2.0	.1	259	210	8.0
				031348	---	---	---	---	---	---	---	58	10	---	---	272	180	---
				020547	.13	47	20	25	3.8	240	0	38	10	2.8	.8	273	199	7.5
24/20/27-0003 CITY GREEN BAY		855	---	011052	.38	56	26	14	4.6	281	0	37	11	1.6	.1	292	250	7.8
				031348	---	---	---	---	---	---	---	40	9.0	---	---	310	255	---
24/20/26-0004 CITY GREEN BAY		804	SANDSTONE	022668	.58	56	22	15	4.9	246	6	40	10	1.3	.2	292	232	8.1
				031348	---	---	---	---	---	---	---	42	10	---	---	286	230	---
24/20/36-0006 CITY GREEN BAY		903	---	011052	.40	49	20	18	4.3	224	0	48	11	1.6	.2	268	205	7.8
				031348	---	---	---	---	---	---	---	60	13	---	---	308	230	---
24/20/27-0007 CITY GREEN BAY		860	SANDSTONE	062866	.84	67	30	24	---	288	---	45	36	1.5	2.0	282	293	7.7
				011062	.49	60	29	35	4.5	265	0	51	4.6	1.6	---	385	272	7.7
				011052	.49	60	29	35	4.5	265	0	51	58	1.6	.0	385	272	7.7
				052448	---	---	---	---	---	---	---	56	64	---	---	428	300	---
				031348	---	---	---	---	---	---	---	57	66	---	---	416	265	---
				021846	1.30	59	25	---	---	277	---	42	14	1.6	---	306	260	7.5
23/20/22-0011 CITY OF DE PERE		835	SANDSTONE	020146	.30	66	18	---	---	218	0	110	34	2.2	---	404	250	7.6
25/19/06-0014 VILL OF PULASKI		330	SANDSTONE	071866	.64	64	31	4.1	---	356	0	8.0	1.4	.4	2.1	302	288	7.4
				073062	.09	62	32	---	---	344	---	4.5	5.0	.4	.7	300	288	7.6
				022559	1.50	62	33	3.0	---	339	0	24	4.0	.4	.2	304	290	7.5
				091454	.60	61	30	.0	---	361	0	5.5	2.0	.4	---	306	294	7.4
24/20/22-0017 CITY GREEN BAY		807	SANDSTONE	062866	.78	53	31	9.8	---	283	---	25	5.1	1.9	2.0	302	263	7.8
				011052	.58	54	28	12	3.7	284	0	39	8.5	2.0	.1	291	251	7.8
				031149	.20	53	22	---	---	288	0	36	6.5	1.7	---	288	240	7.6
24/20/21-0019 GREEN BAY SOAP		788	SANDSTONE	052448	---	---	---	---	---	---	---	22	4.5	---	---	182	130	---
23/21/05-0022 TOWN OF PREBLE		1007	SANDSTONE	122456	1.34	61	43	---	---	349	0	58	5.0	.1	---	382	344	7.8
				042354	.20	92	30	---	---	206	0	208	117	2.6	---	742	358	7.7
				082748	.20	118	42	---	---	212	0	390	210	2.4	---	1082	550	7.6
23/20/12-0024 TOWN OF ALLOUEZ		933	SANDSTONE	010859	.10	68	24	40	---	200	0	130	42	2.5	.0	440	260	7.6
				030155	.05	60	22	---	---	195	0	76	39	2.6	---	384	243	7.7
24/20/25-0033 MILLER RASS ICE		860	---	052448	---	---	---	---	---	---	---	49	12	---	---	308	220	---
24/20/10-0045 STOKELY FOODS		553	---	052448	---	---	---	---	---	---	---	30	90	---	---	296	240	---
23/20/14-0049 WIS ST REFORMAT		730	SANDSTONE	020946	.20	61	20	---	---	251	0	68	20	2.2	---	326	235	7.6

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
BROWN COUNTY (CONTINUED)																		
23/20/21-0069	CITY OF DE PERE	791	SANDSTONE	010655	.70	63	23	--	--	224	0	64	22	2.2	--	356	258	7.6
				020146	.20	58	19	--	--	216	0	76	15	2.2	--	384	235	7.6
24/21/27-0071	BN CO HOSPITAL	900	---	021846	.20	79	26	--	--	198	0	195	82	2.8	--	570	316	7.1
25/21/07-0078	CARL JENKINS	198	DOL-SS	102672	.06	36	16	36	9.6	182	4	60	12	3.8	4.1	275	160	8.3
				032072	.82	38	14	35	11	192	0	62	11	1.1	.2	278	150	7.7
23/20/07-0084	TOWN ASHWABANON	892	SANDSTONE	021050	.10	51	18	--	--	222	0	58	12	2.8	--	304	211	7.7
24/20/33-0099	CITY GREEN BAY	777	SANDSTONE	062866	2.94	51	18	9.4	--	201	--	34	8.5	1.7	2.0	256	201	8.2
24/20/14-0100	CITY GREEN BAY	815	SANDSTONE	062866	.65	60	24	14	--	265	--	26	9.5	1.9	2.0	294	251	7.8
				022652	.23	58	24	13	4.2	274	0	40	9.5	1.1	.9	288	245	7.7
22/22/27-0102	CITY OF DENMARK	456	NIAGARA	070666	.92	70	36	4.9	--	371	0	15	1.5	.1	.1	346	322	7.7
				021864	1.14	69	36	--	--	371	0	16	1.5	.1	.1	346	322	7.7
				102460	1.10	62	31	--	--	382	0	8.7	.5	.0	--	338	308	7.6
				120656	1.00	64	35	--	--	384	0	5.0	2.0	.1	--	294	310	7.7
				020146	.80	62	30	--	--	378	0	7.5	5.0	.1	--	358	335	7.5
24/21/27-0112	TOWN OF PREBLE	75	GLACIAL	122456	.10	89	30	85	--	210	0	195	111	2.6	--	712	352	7.8
24/20/16-0127	TOWN HOWARD	678	SANDSTONE	060866	.28	56	24	14	--	245	0	38	6.5	2.0	2.0	286	241	7.7
				011763	.29	56	25	--	--	259	0	38	.5	1.9	.2	286	244	7.4
				031359	.15	57	27	--	--	268	--	41	7.0	2.1	--	284	236	7.7
				111256	2.04	53	22	--	--	259	0	32	6.0	2.1	--	280	230	7.6
				060155	2.00	55	20	18	--	261	0	29	6.0	2.1	--	392	230	7.4
23/20/06-0131	AUSTIN AIRPORT	775	SANDSTONE	093059	.60	57	31	--	--	298	0	33	10	1.8	--	302	270	7.2
23/20/26-0132	CITY OF DEPERE	735	MULTIPLE	102672	.51	60	27	15	5.0	250	4	49	16	1.8	.4	307	260	8.3
				051667	.32	58	27	16	4.9	258	0	53	18	1.7	.1	293	256	8.0
				060366	.31	57	28	15	4.4	260	0	49	19	2.0	.1	308	257	7.8
				040265	.07	57	29	16	3.6	256	0	50	17	2.0	.0	318	261	7.7
				100659	.20	55	26	26	--	220	0	71	31	2.1	--	346	240	7.8
24/20/22-0136	CMSTP PAC RAILR	--	SANDSTONE	071191	--	28	13	52	--	187	--	61	15	--	--	264	--	--
24/21/24-0157	BERNARD MC CALL	640	---	053068	.49	--	--	--	--	240	0	340	162	--	.4	1000	404	7.4
22/22/07-0158	RONALD WENZEL	109	NIAGARA	053068	.33	--	--	--	--	396	0	30	3.0	--	2.3	364	343	7.5
22/22/13-0159	WILBERT KOENIG	82	NIAGARA	053068	.30	--	--	--	--	308	0	4.4	6.5	--	.2	260	244	7.8
24/20/07-0161	TOWN OF HOWARD	886	SANDSTONE	022569	.44	59	33	7.0	--	317	--	14	4.0	1.0	.4	310	282	7.9

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
BROWN COUNTY (CONTINUED)																		
23/22/23-0162	STANLEY GEZELLA	101	NIAGARA	053068	.05	--	--	--	--	418	0	73	18	--	30	503	444	7.3
22/22/28-0163	CITY OF DENMARK	395	NIAGARA	070666	1.01	66	40	6.4	--	376	0	22	2.6	.2	1.8	384	322	7.7
				102460	.36	66	34	14	--	376	0	22	2.5	.0	--	348	320	7.6
				112056	--	62	39	--	--	--	0	16	3.0	.1	--	338	316	7.5
				020146	--	62	34	--	--	367	0	17	14	.1	--	332	328	7.6
BUFFALO COUNTY																		
24/11/14-0022	CITY OF MONDOVI	340	SANDSTONE	111854	1.80	21	7.7	--	--	102	0	2.2	.6	.2	--	--	80	6.9
24/11/13-0023	CITY OF MONDOVI	344	---	080266	1.60	19	7.8	1.3	--	92	0	7.0	1.4	.3	1.8	88	80	7.4
				092360	1.60	--	--	--	--	86	0	--	--	--	--	104	78	6.9
				061859	1.32	20	8.5	--	--	98	0	4.0	1.0	.6	--	108	82	7.4
				022559	1.28	21	7.6	--	--	98	0	3.5	1.5	.2	--	98	79	7.2
				120746	1.40	19	7.0	--	--	98	0	6.0	5.0	.3	--	104	80	7.3
20/12/08-0025	VIL COCHRANE	350	---	080365	.46	62	30	1.9	--	317	0	15	.9	.1	1.8	276	283	7.5
				110165	.22	--	--	--	--	315	0	--	--	--	--	--	272	7.6
				120446	.20	50	27	--	--	317	0	16	7.0	.0	--	274	310	7.4
				110135	.80	--	--	--	--	310	0	17	5.0	--	.0	276	307	--
21/13/02-0029	CITY ALMA	440	---	080466	1.01	51	29	2.0	--	320	0	16	.9	.1	1.8	282	275	7.9
				092161	1.15	--	--	--	--	318	0	--	--	--	--	--	270	7.4
				072959	.30	60	31	--	--	--	--	20	2.0	.1	--	280	280	7.2
				100757	1.00	59	28	6.0	--	320	0	16	2.5	.1	--	276	270	7.4
				033046	.90	59	28	--	--	322	0	21	2.0	.1	--	272	285	7.3
				010135	.60	--	--	--	--	317	--	15	6.0	--	.0	284	280	--
21/13/02-0052	CITY OF ALMA	438	SANDSTONE	080466	1.04	60	30	1.3	--	311	0	20	1.7	.1	1.8	276	276	7.5
				090463	1.00	59	31	--	--	307	0	18	.0	.4	.1	296	273	7.4
				100961	.96	--	--	--	--	317	0	--	--	--	--	--	270	7.5
				092161	1.90	--	--	--	--	322	0	--	--	--	--	--	278	--
21/11/15-0055	ST BONIFACE	265	SANDSTONE	072470	.58	65	29	--	--	316	0	22	.3	--	.1	--	277	7.4
19/11/06-0058	FOUNTAIN CITY	305	SANDSTONE	072666	.28	67	33	1.7	--	327	0	31	1.4	.1	1.8	318	304	7.8
				091465	1.70	--	--	--	--	--	--	--	--	--	--	--	272	7.5
				091465	1.74	--	--	--	--	--	--	--	--	--	--	--	256	7.7
				031365	2.80	--	--	--	--	344	0	--	--	--	--	--	288	7.4
				091365	2.18	--	--	--	--	--	--	--	--	--	--	--	272	7.5
23/14/34-0061	H O TIFFANY	710	SANDSTONE	060769	.98	45	33	--	--	272	0	23	8.0	--	.1	252	251	8.2

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
BUFFALO COUNTY (CONTINUED)																		
21/10/23-0068	DALLAS HANNON	256	SANDSTONE	032470	.09	73	32	--	--	350	0	8.0	6.3	--	18	320	314	7.6
24/10/33-0069	BENEDICT AASE	81	SANDSTONE	032470	12.04	62	27	--	--	304	0	12	1.0	--	6.7	--	266	7.8
22/10/11-0070	JOSEPH BRAGGER	116	SANDSTONE	032470	.07	69	34	--	--	356	0	18	4.2	--	5.7	--	312	7.5
23/12/31-0072	L MCQUISTION	135	SANDSTONE	041570	.99	63	25	--	--	298	0	16	3.0	--	.1	260	260	7.6
				032470	.18	55	26	--	--	283	0	18	.6	--	.0	--	244	7.6
BURNETT COUNTY																		
39/16/06-0006	VIL OF WEBSTER	68	GLACIAL	062766	.32	35	14	3.6	--	120	0	3.9	3.8	.1	3.7	314	148	6.7
				032664	.12	35	14	36	--	120	0	39	38	.1	37	314	145	6.7
				032957	.08	36	13	49	--	85	0	55	62	.1	--	356	144	6.2
				071255	.00	38	13	41	--	71	0	55	70	.1	--	368	149	6.5
38/19/14-007	VILL GRANTSBURG	160	GLACIAL	062866	.77	50	9.4	24	--	237	0	2.0	10	.2	1.8	250	164	7.7
				051646	.72	48	11	--	--	241	0	2.5	12	.2	--	252	165	7.5
39/19/14-0008	VILL GRANTSBURG	147	GLACIAL	062866	.91	49	11	15	--	215	0	3.0	8.5	.2	1.8	226	164	7.8
				051646	.76	47	11	--	--	222	0	1.0	10	.2	--	212	162	7.5
38/15/02-0030	RICHARD VESELY	77	GLACIAL	060669	.05	32	9.2	--	--	98	0	14	14	--	25	186	118	8.2
38/17/11-0032	PENTA WOOD PROD	163	GLACIAL	031857	--	27	12	--	--	127	0	--	3.1	--	--	238	104	--
37/18/20-0039	LESTER OLSON	153	GLACIAL	060469	.97	48	16	--	--	220	6	7.0	2.5	--	.4	214	186	8.5
38/14/32-0058	C TEMPLETON	124	SANDSTONE	060469	.40	30	9.7	--	--	139	0	6.0	2.0	--	2.6	137	115	7.6
39/14/11-0066	VIGGO DANIELSON	154	GLACIAL	050669	.18	29	6.6	--	--	122	2	9.6	4.0	--	.2	132	100	8.4
41/16/26-0078	JAMES GATTEN	75	GLACIAL	060568	.03	26	8.2	--	--	90	0	14	8.0	--	12	138	98	8.0
42/15/30-0084	VERN CARLSON	74	GLACIAL	060469	.03	24	7.1	--	--	90	0	9.4	3.0	--	19	135	89	8.2
41/14/26-0088	W L JENSEN	172	GLACIAL	060569	.24	25	5.8	2.2	.6	110	0	.4	.5	.1	1.0	106	86	7.9
38/16/06-0107	VIL OF SIREN	150	GLACIAL	112867	.30	--	--	--	--	203	0	--	.5	--	.3	--	160	7.2
38/16/06-0108	VIL OF SIREN	148	GLACIAL	020569	.38	47	10	--	--	--	0	1.0	.5	.4	.4	206	160	8.1

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
CALUMET COUNTY																		
20/19/02-0006	CALUMET CORP	1050	SANDSTONE	092564 062530	1.41 --	446 284	30 42	90 143	-- --	154 417	0 0	1050 --	135 --	-- --	-- --	-- --	1240 --	7.2 --
18/20/18-0010	CITY OF CHILTON	665	MULTIPLE	012356 020146 010135	.39 .00 .05	93 99 --	35 48 --	-- -- --	-- -- --	422 434 417	0 0 0	72 92 91	30 42 59	.1 .1 --	2.5 -- --	546 550 692	444 470 530	7.3 7.2 --
18/19/13-0012	CITY OF CHILTON	795	MULTIPLE	062464	--	104	--	29	--	468	0	71	32	--	--	--	452	7.9
20/20/26-0013	CITY BRILLION	813	DOL-SS	070666 050665 011746	.16 .62 .40	60 60 62	34 34 31	7.5 7.5 --	-- 1.6 --	333 333 333	0 0 0	35 35 30	5.5 5.5 7.5	.2 .2 .1	3.0 3.0 --	320 320 310	292 292 302	7.4 7.4 7.3
20/19/35-0019	ALEX THIEL	925	SANDSTONE	051463	6.17	--	--	--	--	202	0	702	1140	--	--	3320	1030	7.4
17/20/16-0021	CITY NEW HLSTEN	981	MULTIPLE	071166 090459 061345	.06 .04 .00	81 79 68	41 38 38	5.8 -- --	-- -- --	349 363 356	0 0 0	54 56 26	8.8 7.5 9.5	.2 -- .1	12 -- --	482 402 358	372 360 370	7.6 7.5 7.7
17/20/10-0024	CITY NEW HLSTEN	492	MULTIPLE	071166 090459	.06 .05	81 79	40 38	5.8 --	-- --	329 354	0 0	86 65	4.9 8.0	.2 --	6.2 --	476 408	368 360	7.6 7.4
20/20/26-0026	CITY BRILLION	178	MULTIPLE	070666 050665	.30 .76	60 60	33 33	8.2 8.2	-- 1.7	326 326	0 0	39 39	5.5 5.5	.2 .2	1.3 1.2	320 320	288 288	7.8 7.8
18/19/27-0037	H J HERZOG	142	MULTIPLE	061468	.05	77	41	5.7	1.5	388	0	24	9.0	.2	4.7	378	361	7.4
18/20/16-0043	CITY OF CHILTON	131	NIAGARA	070566	.45	--	--	--	--	453	0	80	51	.3	7.5	668	107	7.8
18/20/05-0048	CITY OF CHILTON	280	NIAGARA	070566	.12	85	42	5.2	--	417	0	44	6.0	.2	7.5	464	389	7.8
20/20/25-0049	CITY BRILLION	185	NIAGARA	032068 111865	.07 .07	82 --	24 --	8.0 --	-- --	317 310	0 0	32 --	6.5 --	.3 --	.5 --	334 --	304 284	7.5 7.7
20/18/15-0050	NO SHORE GLF CB	458	SANDSTONE	091872 042872	.07 .21	24 29	14 8.3	93 85	2.3 2.0	140 134	0 0	73 69	86 76	.5 .5	.4 .1	370 358	120 110	7.3 7.2
18/20/16-0051	CITY OF CHILTON	213	NIAGARA	102572 070969 043068 051767 070566 042765 012356 020146	.09 .15 .11 .04 .06 .10 .01 .00	120 117 111 110 107 103 93 81	63 62 61 61 58 58 39 44	27 17 13 11 10 9.8 -- --	2.1 1.4 1.7 1.7 -- 1.3 -- --	472 466 470 467 449 454 434 416	0 0 0 0 0 0 0 0	100 99 94 93 82 82 59 39	84 52 44 42 33 30 12 15	.1 .2 .1 .2 .2 .1 .1 .1	6.6 11 11 9.8 10 3.0 13 --	683 622 591 572 686 554 488 414	560 548 528 526 508 496 449 405	7.8 7.3 7.4 7.3 7.5 7.4 7.4 7.5

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
CALUMET COUNTY (CONTINUED)																		
18/19/13-0052 CITY OF CHILTON		191	NIAGARA	070566	.83	84	48	7.5	--	437	0	18	15	.2	1.8	510	411	7.4
				012356	2.68	80	46	--	--	454	0	20	11	.3	.4	456	404	7.4
				020146	.70	75	46	--	--	439	0	33	12	.1	--	412	410	7.3
18/19/13-0053 CITY OF CHILTON		193	NIAGARA	070566	.06	101	64	21	--	464	0	82	30	.2	17	694	520	7.4
				012356	.00	96	38	--	--	451	0	58	17	.1	19	508	455	7.4
				020146	.00	85	44	--	--	439	0	40	14	.1	--	432	405	7.4
20/20/22-0054 WAYNE WITTMANN		285	GLACIAL	061468	.87	--	--	--	--	146	0	242	33	--	.6	518	258	8.0
19/20/06-0055 CITY OF HILBERT		66	NIAGARA	070666	1.13	64	48	17	--	376	0	61	6.1	.3	1.8	440	358	7.7
				112146	1.00	54	41	--	--	364	0	46	9.0	.2	--	470	370	7.5
17/20/01-0056 F R GOTT		81	---	092257	.04	--	--	--	--	--	--	--	--	--	--	--	380	--
CHIPPEWA COUNTY																		
30/09/05-0001 CITY OF BLOOMER		176	SANDSTONE	072666	.45	9.0	4.4	3.6	--	49	0	.9	2.0	.2	8.8	76	41	6.7
				090865	.10	9.2	4.4	--	--	49	0	.9	2.0	.2	8.7	76	41	6.7
30/09/05-0003 CITY OF BLOOMER		177	SANDSTONE	072666	.06	8.0	3.1	3.3	--	35	0	.9	1.5	.2	11	76	34	6.5
				090865	.07	8.4	3.1	--	--	35	0	.9	1.5	.3	11	76	34	6.5
				050846	.00	8.7	2.4	--	--	38	0	1.0	3.0	.1	--	64	32	6.2
31/10/02-0012 VILL NEW AUBURN		168	SANDSTONE	072666	.61	11	4.2	2.8	--	20	0	3.0	21	.2	7.1	112	45	6.7
30/09/05-0013 CITY OF BLOOMER		195	SANDSTONE	050846	.10	7.5	1.8	--	--	--	0	6.5	5.5	.0	--	68	32	5.4
28/09/34-0017 NATL PRESTO IND		130	GLACIAL	010153	.35	--	--	--	--	--	--	7.3	8.4	--	--	80	44	--
29/06/31-0024 VILL OF CADOTT		28	MULTIPLE	072766	.06	20	6.5	6.9	--	55	0	16	14	.1	21	140	77	6.7
				051446	.00	15	5.4	--	--	44	0	16	9.0	.1	--	122	60	6.0
29/05/36-0029 CITY OF STANLEY		84	GLACIAL	041364	1.66	45	19	--	--	222	0	6.0	9.0	.2	.6	244	192	7.5
				020261	1.50	43	13	--	--	220	0	2.7	3.5	.2	1.6	214	184	7.7
				051446	2.10	46	17	--	--	240	0	1.5	5.0	.3	--	224	163	7.2
29/05/36-0030 CITY OF STANLEY		92	GLACIAL	072866	2.22	49	19	6.6	--	230	0	6.0	9.0	.2	.4	244	192	7.5
				020261	1.90	46	14	--	--	223	0	6.8	11	.2	.4	278	200	7.5
				051446	1.30	49	17	--	--	239	0	4.5	12	.2	--	236	163	7.1
29/08/33-0049 CITY CHIP FALLS		95	GLACIAL	090466	.06	17	4.4	2.6	--	54	0	12	4.4	.1	11	118	61	6.9
				121963	.06	15	8.3	--	--	51	0	5.0	3.5	.1	10	98	72	6.6

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
CHIPPEWA COUNTY (CONTINUED)																		
29/07/01-0054	CARVEL WALTERS	30	GLACIAL	052367	.27	--	--	--	--	74	0	4.4	5.0	--	9.7	112	68	7.0
29/10/29-0095	RAY ANDERSON	--	GLACIAL	052567	1.75	--	--	--	--	30	0	1.2	3.0	--	.2	37	21	7.1
28/08/09-0113	NO COLONY TR SC	65	GLACIAL	012163	3.33	9.2	4.0	--	--	18	0	4.5	4.0	--	24	116	40	6.1
28/06/06-0114	VILL OF CADOTT	6	---	072766	.05	7.0	3.0	2.6	--	15	0	5.0	4.1	.1	17	68	30	6.5
				051446	.00	7.5	1.3	--	--	44	0	2.5	6.0	.1	--	56	24	5.9
28/09/12-0123	CITY CHIP FALLS	63	GLACIAL	080466	.06	12	5.5	2.8	--	45	0	8.0	6.5	.1	3.5	106	53	6.7
				121963	.17	12	6.4	--	--	49	0	4.5	2.0	.0	6.2	94	56	6.8
29/09/12-0124	CITY CHIP FALLS	60	GLACIAL	080466	.12	12	4.6	2.6	--	41	0	9.0	4.6	.1	5.7	102	49	6.9
				121963	.11	12	6.4	--	--	51	0	3.0	5.0	.1	3.7	86	56	6.8
31/06/19-0125	VILLAGE CORNELL	50	GLACIAL	072666	.05	11	3.2	2.2	--	41	--	9.0	3.3	.1	2.2	76	41	7.3
				121263	.09	12	4.5	--	--	51	0	5.0	1.0	.1	.7	92	48	6.4
				032262	.04	--	--	--	--	--	--	--	--	--	--	--	54	7.6
29/08/33-0127	CITY CHIP FALLS	43	GLACIAL	080466	.06	17	6.4	3.2	--	51	0	11	4.7	.2	22	138	69	6.8
				121963	.06	15	9.8	--	--	51	0	6.5	3.5	.0	20	116	78	6.9
29/08/33-0128	CITY CHIP FALLS	49	GLACIAL	080466	.40	17	5.4	3.3	--	49	--	12	4.9	.1	23	142	65	6.9
				121963	.06	15	7.4	--	--	51	0	6.0	4.0	.0	19	108	68	6.9
29/08/33-0129	CITY CHIP FALLS	58	GLACIAL	080466	.06	17	5.9	3.2	--	46	--	10	4.9	.1	23	142	67	6.9
				121963	.39	15	5.9	--	--	44	0	5.5	3.5	.0	19	112	62	6.6
29/08/33-0130	CITY CHIP FALLS	62	GLACIAL	080466	.06	15	6.6	3.3	--	44	0	11	6.0	.1	21	118	65	6.8
				121963	.53	17	4.9	--	--	44	0	5.5	4.5	.0	19	118	62	6.5
29/05/36-0134	CITY OF STANLEY	94	GLACIAL	072866	.99	46	20	4.5	--	237	0	2.0	4.5	.3	2.2	226	199	7.7
				041364	.98	48	16	--	--	232	0	1.0	3.0	.2	.1	224	186	7.3
30/09/09-0135	CITY OF BLOOMER	185	SANDSTONE	111067	.07	5.0	2.8	2.0	--	29	0	1.0	.0	.4	.7	58	24	6.6
29/08/03-0137	NO COLONY TR SC	41	GLACIAL	010165	.04	8.8	2.9	.0	--	34	0	1.0	1.7	--	--	--	34	6.5
29/08/09-0139	NO COLONY TR SC	--	GLACIAL	010165	.50	9.6	1.9	.0	--	24	0	4.8	2.4	--	--	--	32	6.7
31/03/17-0140	RICHARD IRWIN	30	GLACIAL	052567	1.62	--	--	--	--	174	0	3.2	2.0	--	.1	156	140	8.2
30/09/04-0141	TWI LITE MOTEL	64	GLACIAL	070758	.00	36	16	--	--	13	0	--	--	--	--	--	52	5.9
29/09/25-0154	ROBERT P DURCH	205	SANDSTONE	043068	.06	--	--	--	--	15	0	10	5.5	--	31	90	42	6.9

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
CHIPPEWA COUNTY (CONTINUED)																		
30/08/06-0162	FRED JENNEMAN	98	GLACIAL	060972	.05	16	7.3	3.2	.3	83	0	1.6	5.5	.2	6.7	106	70	7.3
30/10/18-0163	PAUL RIHN	97	SANDSTONE	102372	.01	28	8.4	4.9	1.7	42	0	20	15	.2	58	173	100	6.4
				060972	.04	26	8.6	4.7	1.4	43	0	19	20	.3	42	189	100	6.3
31/09/18-0164	KENNETH RUNDLE	100	SANDSTONE	060972	.01	2.2	1.6	1.6	.8	15	0	.6	5.0	.2	2.2	35	12	6.1
29/08/15-0165	FRED CROSBY	120	GLACIAL	060972	.00	20	8.4	4.5	1.6	99	0	6.6	4.0	.2	4.8	115	84	7.8
28/10/30-0166	GARY MCMAHON	53	GLACIAL	061072	.11	11	3.4	3.2	.5	41	0	13	1.0	.2	4.9	80	42	7.2
28/09/21-0167	RONALD ROONEY	93	SANDSTONE	102372	.35	19	6.5	3.5	1.0	42	0	20	7.6	.1	20	115	74	7.0
				061072	.02	18	6.9	3.8	1.1	42	0	18	8.9	.1	24	124	74	6.7
CLARK COUNTY																		
29/03/30-0003	VIL OF THORP	76	SANDSTONE	062966	.06	31	4.7	7.4	--	104	0	5.0	6.5	.2	15	154	97	7.2
				042646	.05	19	6.0	9.0	--	88	0	5.0	7.0	.2	--	132	82	6.4
24/02/23-0024	JERRY STRACK	150	SANDSTONE	032470	.19	51	14	--	--	228	0	5.4	1.4	--	11	202	185	8.2
27/02/34-0044	CITY GREENWOOD	28	GLACIAL	072866	1.23	22	5.8	4.4	--	76	0	12	7.0	.1	12	110	79	6.8
				052863	.16	18	5.8	--	--	68	0	7.0	5.5	.2	--	--	70	6.5
25/02/17-0046	GLOBE SCHOOL	175	SANDSTONE	032470	.12	32	8.9	--	--	86	0	15	15	--	32	168	116	8.0
29/04/22-0052	BEN JAROCKI	147	PRECAMB.	052367	.15	--	--	--	--	312	0	2.4	1.0	--	2.9	272	245	7.4
26/04/15-0053	FRED G DAFT	68	SANDSTONE	052367	.86	--	--	--	--	68	0	6.4	3.0	--	.1	66	52	7.1
29/03/31-0057	VILL OF THORP	32	---	062966	.06	31	4.7	--	--	104	0	5.0	6.5	.2	15	154	97	7.2
				042646	.05	19	6.0	--	--	88	0	5.0	7.0	.2	--	132	82	6.4
29/03/31-0058	VILL OF THORP	50	---	062966	1.63	34	14	7.0	--	181	0	5.0	0.8	.4	2.2	168	142	7.5
29/04/36-0059	VILL OF THORP	80	---	062966	.06	18	6.2	6.1	--	81	0	7	2.9	.2	7.1	112	71	7.0
25/01/15-0074	RALPH SCHMITT	75	PRECAMB.	032470	.03	7.0	2.8	--	--	24	0	2.8	2.6	--	17	42	29	6.7
25/01/23-0078	COOP CREAMERY	35	SANDSTONE	102369	.12	26	13	19	2.0	58	0	48	35	.0	17	233	118	7.1
26/01/02-0083	PAUL IVACIC	108	GLACIAL	102369	1.10	38	12	8.0	1.0	188	0	3.2	3.0	.3	.3	175	145	7.0
26/02/14-0245	REYNOLD SYTH	98	MULTIPLE	102369	.13	50	14	9.4	1.0	204	0	12	9.0	.1	25	256	183	6.8

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
CLARK COUNTY (CONTINUED)																		
24/03/11-0576 CK CO PARK ADM		75	PRECAMB.	032470	3.30	8.8	5.3	--	--	74	0	2.2	.6	--	.0	92	44	7.3
24/04/25-0577 CK CO PARK ADM		50	SANDSTONE	032470	2.10	3.2	1.4	--	--	27	0	.4	1.3	--	.7	44	14	6.8
23/01/05-0578 WM MATUSZAK		90	PRECAMB.	032470	1.71	21	5.8	--	--	83	0	8.0	1.1	--	.1	108	76	8.1
COLUMBIA COUNTY																		
13/12/21-0002 VI OF FRIESLAND		350	SANDSTONE	071966	.06	80	34	7.6	--	355	0	25	14	.2	22	410	341	7.8
				031760	.04	74	39	--	--	--	0	26	12	.1	--	374	340	7.3
				120456	.00	73	33	--	--	356	0	20	15	.1	--	392	335	7.6
12/09/07-0005 CITY OF PORTAGE		250	SANDSTONE	052267	.20	52	27	8.8	3.2	253	0	33	12	.2	5.4	288	241	7.7
				062066	--	80	38	10	--	349	0	48	19	.2	11	426	358	7.3
				110555	.70	69	38	5.8	--	333	0	48	12	.1	--	370	322	7.1
				030650	.20	74	39	4.0	--	334	0	52	18	--	--	368	345	7.7
12/09/07-0010 CITY OF PORTAGE		255	MULTIPLE	010973	.15	77	26	11	2.9	260	7	49	20	.1	12	353	300	8.3
				062166	.18	50	24	8.5	1.9	230	0	31	12	.2	5.3	264	224	7.5
				062066	.54	46	25	8.0	--	224	0	29	11	.2	7.5	286	218	7.5
				060465	.58	44	22	7.0	1.6	208	0	36	10	.2	3.2	247	201	7.2
				042859	.36	44	24	--	--	211	0	32	9.0	.1	--	244	204	7.3
				042859	.80	44	24	--	--	211	0	24	8.0	.4	--	190	204	6.7
				110555	.22	40	21	--	--	202	0	22	7.0	.2	--	--	194	7.3
				030650	.00	57	29	--	--	261	0	30	12	--	--	274	262	7.6
11/12/34-0037 VILL FALL RIVER		240	SANDSTONE	072066	.08	62	29	2.1	--	327	0	6.0	.8	.1	2.2	292	276	7.8
				022063	.08	59	29	--	--	322	0	3.0	.0	.0	1.8	246	268	7.6
				122144	.20	61	28	--	--	332	0	5.0	4.0	.1	--	266	310	7.4
10/12/13-0038 CITY COLUMBUS		565	SANDSTONE	052666	.70	62	35	2.5	--	339	0	8.5	.7	.1	1.8	294	300	7.4
				122144	.40	62	32	--	--	354	0	7.9	5.6	.1	--	302	336	7.5
10/09/13-0039 VILL ARLINGTON		285	SANDSTONE	062066	.29	89	44	41	--	349	0	34	99	.2	34	638	408	7.4
				012760	.70	78	42	--	--	334	0	37	50	.1	--	496	366	7.8
				011650	.00	74	34	--	--	317	0	34	46	.1	--	434	346	7.4
				042849	.10	74	30	--	--	322	0	36	37	.1	--	424	300	7.5
12/17/05-0043 VILL OF CAMBRIA		210	SANDSTONE	071966	2.66	75	74	4.0	--	390	0	17	1.0	.2	1.8	358	330	7.6
12/12/05-0044 VILL OF CAMBRIA		355	MULTIPLE	062066	1.64	77	34	4.0	--	392	0	17	.5	.2	2.2	370	335	7.4
				030645	1.62	76	37	--	--	405	0	12	2.0	.1	--	324	360	7.2
10/12/13-0045 CITY COLUMBUS		565	SANDSTONE	052666	.63	61	36	2.5	--	334	0	8.0	.5	.1	.4	292	302	7.4

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
COLUMBIA COUNTY (CONTINUED)																		
				122144	2.00	67	31	--	--	339	0	5.2	5.2	.1	--	344	295	7.3
12/10/03-0051	VIL PARDEEVILLE	370	SANDSTONE	062066	.18	59	28	2.2	--	326	0	4.0	.8	.1	8.0	486	264	7.8
				112161	.89	62	28	--	--	328	0	3.0	.0	.0	1.3	330	280	7.5
				030753	.70	58	34	--	--	337	0	2.0	4.0	.1	--	264	285	7.6
				030745	.70	58	34	--	--	338	0	2.0	4.0	.1	--	264	325	7.6
10/08/26-0052	VIL OF LODI	334	SANDSTONE	062969	.18	56	32	3.0	--	307	0	2.0	10	.2	2.2	272	262	8.3
				111964	.06	45	25	--	--	--	0	2.0	.0	.1	6.2	212	214	7.7
				100863	.06	57	31	--	--	329	0	1	1	.0	2.1	278	272	7.3
				092952	.00	57	25	--	--	324	0	1.0	3.0	.5	--	254	274	7.3
11/09/35-0057	VILL POYNETTE	271	SANDSTONE	062066	.06	56	27	1.4	--	290	0	5.0	.8	.1	11	376	252	7.3
				020645	1.00	56	29	--	--	310	0	2.5	4.8	.1	--	252	255	7.5
12/12/01-0063	CITY OF RANDOLPH	552	SANDSTONE	072066	1.48	70	35	6.4	--	353	0	20	7.5	.2	1.8	344	312	7.6
				030645	1.00	68	34	--	--	354	0	22	4.5	.1	--	310	320	7.3
11/11/06-0066	VILLAGE OF RIO	391	SANDSTONE	072066	.06	59	30	1.8	--	315	0	4.0	.0	.1	5.2	264	268	7.4
				012764	.09	57	36	--	--	314	0	4.0	.0	.1	5.3	264	268	7.4
				062554	--	58	30	--	--	326	0	.8	1.0	.1	--	272	268	7.4
10/10/29-0075	UNIV OF WIS	320	SANDSTONE	103072	.04	76	42	7.2	1.1	342	0	28	20	.1	22	380	360	8.1
				050572	.09	89	40	8.4	1.2	358	0	31	18	.2	56	452	390	8.1
				033158	.10	71	40	--	--	327	0	22	12	.1	--	376	324	7.5
10/09/13-0079	VILL ARLINGTON	450	SANDSTONE	062066	.08	84	46	41	--	334	0	32	102	.2	33	584	400	7.3
				012760	.70	76	42	--	--	326	0	33	52	.1	--	496	366	7.6
				012760	.70	78	42	--	--	334	0	37	50	.1	--	496	366	7.8
				091158	.40	74	44	--	--	324	0	37	37	.1	--	440	337	7.3
12/10/21-0080	COLUMBIA COUNTY	205	SANDSTONE	032062	.08	55	30	--	--	271	0	10	8.5	.0	28	288	260	7.3
13/12/01-0084	DAVE SLINGER	45	GLACIAL	051567	.00	--	--	--	--	386	0	54	6.0	--	1.6	402	387	7.6
12/10/05-0097	VIL PARDEEVILLE	392	SANDSTONE	052066	.30	54	30	1.9	--	290	0	12	.8	.1	5.8	280	260	7.6
				042762	.34	50	30	--	--	295	0	4.0	.0	.0	.7	--	248	7.3
10/07/10-0120	HOWARD CHRISLER	264	SANDSTONE	123064	6.17	--	--	--	--	330	0	11	4.0	--	.5	276	282	7.5
12/09/27-0122	MARTIN MARIETTA	200	SANDSTONE	010565	.12	--	--	--	--	151	0	15	4.0	--	9.6	155	146	8.0
12/09/05-0124	CLARK OIL CO	278	GLACIAL	010565	1.65	--	--	--	--	243	0	2.2	6.0	--	.4	198	200	7.8
12/09/05-0126	ELI LAVIGNE	18	GLACIAL	010565	6.66	--	--	--	--	302	0	.0	7.0	--	.2	268	245	7.1

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
COLUMBIA COUNTY (CONTINUED)																		
12/12/06-0129 COLUMBIA FOODS		458	SANDSTONE	083166	1.27	72	36	3.4	--	399	0	11	2.0	.1	.4	332	330	7.4
11/09/34-0137 VIL OF POYNETTE		126	GLACIAL	082867	.07	64	32	3.0	--	293	0	14	4.0	.2	26	346	292	7.6
12/12/01-0150 CITY RANDOLPH		350	---	072062	1.48	68	33	--	--	351	0	19	2.5	.1	.0	324	306	7.3
				030645	1.12	68	32	--	--	365	0	16	4.5	.1	--	314	301	7.7
10/12/33-0161 RUSSEL SCHULZE		105	DOL-SS	051667	3.02	--	--	--	--	364	0	9.2	2.0	--	.2	300	310	8.0
10/10/25-0171 WILLIAM LERUM		162	DOL-SS	051567	--	--	--	--	--	165	0	33	30	--	--	--	190	8.2
11/12/17-0197 CARL SEIRE		128	DOL-SS	051567	.00	--	--	--	--	382	0	46	34	--	57	550	405	7.6
11/11/06-0200 VILLAGE OF RIO		400	SANDSTONE	081067	.10	59	28	3.0	--	266	0	15	5.0	.2	25	298	260	7.7
10/08/03-0203 HARMONY GROVE		400	SANDSTONE	111964	.06	45	25	2.0	--	--	0	2.0	.3	.1	3.1	258	214	7.7
				073163	.03	--	--	--	--	251	--	--	--	.0	--	--	212	--
13/09/31-0204 CITY PORTAGE		125	GLACIAL	091768	.07	49	22	2.0	--	227	0	15	3.0	.2	3.5	248	216	8.0
10/08/03-0206 HARMONY GROVE		320	SANDSTONE	073163	.24	--	--	--	--	--	--	--	--	.0	--	--	212	--
12/08/22-0209 ROBERT MEAL		105	SANDSTONE	102070	.19	65	25	1.7	1.0	280	0	34	5.0	.5	.2	274	260	7.3
CRAWFORD COUNTY																		
07/07/25-0002 GENERALHOSPITAL		930	SANDSTONE	042572	2.15	170	46	750	24	320	0	430	1100	1.0	.0	2760	610	7.6
				110970	.11	19	27	840	22	120	35	350	1000	.7	.0	2370	160	9.3
				050367	1.60	138	64	752	20	306	0	460	1100	1.1	--	2740	608	7.5
				060966	.67	140	61	789	17	306	0	478	1080	1.0	--	2760	601	7.4
				060465	1.21	139	63	710	21	313	0	480	1060	1.0	1.2	2770	607	7.6
				051445	1.10	139	28	--	--	315	0	500	1030	.9	--	2770	540	7.3
11/03/31-0004 SOLDIERS GROVE		358	---	071166	.39	48	28	13	--	277	0	17	.6	.1	1.8	252	235	7.3
				091462	.34	47	27	--	--	249	0	16	.0	.0	.0	236	230	7.4
				060445	.40	49	27	--	--	271	0	19	5.0	.1	--	240	230	7.4
10/04/28-0014 VIL GAYS MILLS		236	---	062765	.29	54	27	3.0	--	271	0	--	6.0	.1	1.8	252	248	8.0
				031860	.20	50	32	--	--	271	0	24	1.0	.1	--	256	246	7.4
				060445	.20	50	28	--	--	274	0	29	9.0	.1	--	256	230	7.5
06/06/01-0050 PAUL FLANSBURGH		350	SANDSTONE	011965	.27	--	--	--	--	334	0	19	5.0	--	.2	286	294	7.4
09/06/27-0059 WISC HWY COMM		113	SANDSTONE	032670	.83	66	32	--	--	324	0	30	.6	--	.0	--	296	7.6

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
CRAWFORD COUNTY (CONTINUED)																		
10/04/07-0064 COMMUNITY CLUB	--	---		052268	.09	65	36	1.8	.4	354	0	12	1.0	.1	6.9	301	310	7.6
10/04/19-0065 LAVERNE SWIGGUM	--	---		060970	.20	44	22	2.1	.3	230	0	12	1.3	.1	11	207	201	8.1
				052268	.46	43	22	2.2	.2	232	0	.4	1.0	.1	14	205	198	7.8
10/05/14-0066 MARTIN GUNDERSON	--	---		101072	.06	110	47	11	.0	336	0	33	37	.4	130	546	470	8.1
				060771	.08	98	55	13	.3	370	0	33	38	.1	160	562	470	7.6
				060970	.02	103	57	12	.2	352	0	56	43	.3	142	553	492	7.5
				052268	.10	95	50	--	--	317	0	15	40	--	163	529	443	7.7
10/05/11-0069 MICHAEL KELLER	--	---		060970	1.43	63	27	1.9	.7	300	0	30	.3	.2	.1	256	268	7.9
				052268	3.60	60	32	--	--	318	0	9.6	2.0	--	.4	248	281	7.8
11/05/30-0071 ARNOLD HELGERSON	240	---		060970	.00	82	60	4.6	.1	372	0	24	32	.2	113	559	452	7.4
10/05/01-0072 VERNON J DOLL	--	---		060970	.00	69	37	1.2	.1	360	0	7.6	2.6	.1	8.2	314	324	7.5
				063068	.83	58	36	--	--	290	0	9.6	9.0	--	38	276	293	8.1
10/04/05-0073 VERNON DOLL	--	---		060368	1.00	63	36	--	--	348	0	4.8	3.0	--	8.8	272	305	7.7
10/05/13-0075 WILLIAM PAYNE	--	---		060970	.65	65	40	2.8	.5	280	0	17	16	.1	80	370	327	7.9
10/05/02-0076 FROISETH BROS	--	---		061070	.00	59	22	1.5	.1	240	0	7.2	8.3	.2	21	266	238	7.7
10/05/11-0082 DONALD HANSON	--	---		060970	.29	62	32	2.0	.4	304	0	16	4.0	.1	18	274	286	7.5
10/04/04-0093 MILFRED BURKUM	--	---		060970	.00	66	35	1.7	1.8	348	0	15	3.3	.1	5.0	305	309	7.8
10/05/23-0099 EVERT HALVERSON	--	---		060970	.00	85	38	5.7	.4	358	0	19	15	.1	41	413	368	7.7
10/05/14-0101 ORIS CHURNESS	250	---		061070	.00	56	31	2.2	.1	298	0	6.4	3.0	.2	11	265	267	7.6
10/05/25-0115 ART CASHMORE	200	---		060970	.44	44	26	7.4	.6	162	0	19	29	.2	57	253	217	8.0
11/04/31-0119 ANDERSON BROS	325	---		060970	.00	62	25	1.8	.2	292	0	3.6	2.2	.1	5.8	244	258	7.7
03/06/09-0153 ROLAND FRITSCH	660	SANDSTONE	032670	.15	74	22	--	--	--	313	0	18	.9	--	1.2	264	275	7.6
10/05/13-0154 HERMAN SIME, JR	540	SANDSTONE	032670	.09	68	32	--	--	--	340	0	10	3.1	--	8.1	276	301	7.6
03/05/13-0155 L SUTTON, JR	460	SANDSTONE	032670	.10	65	29	--	--	--	314	0	10	4.4	--	12	282	281	7.7
07/04/19-0156 KEN SANDERSON	325	SANDSTONE	070853	.20	59	36	--	--	--	317	0	37	42	1.2	--	372	306	7.3
			060445	.00	56	34	--	--	--	305	0	18	32	.1	--	348	280	7.5
09/04/14-0168 LYLE GEORGE	420	---		101570	.09	69	38	2.5	.5	352	0	9.6	6.5	.2	17	316	330	7.5

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
CRAWFORD COUNTY (CONTINUED)																		
10/03/21-0169 WM MEIER		525	SANDSTONE	042572	.03	85	43	13	.5	400	0	11	60	.1	7.3	406	390	7.3
				101570	.30	92	43	15	.8	426	0	6.0	46	.1	9.5	441	410	7.4
08/04/05-0170 STEUBEN BALL PK		64	GLACIAL	101570	6.93	57	31	2.5	1.2	322	0	16	4.0	.1	1.5	260	270	7.5
07/05/05-0171 ORVIS OSWALD		90	SANDSTONE	101570	.04	75	28	1.9	1.1	332	0	18	4.0	.2	9.1	296	300	7.5
08/04/14-0172 FRITZ GROOM		100	SANDSTONE	101570	.10	58	32	1.3	1.1	312	0	11	4.0	.2	8.6	269	280	7.9
07/04/17-0173 VIL OF WAUZEKA		400	---	062969	.22	49	29	2.0	--	255	0	21	.7	.2	1.8	254	243	8.2
				031760	.15	56	33	--	--	295	0	24	1.0	.1	--	272	265	7.7
				060445	.30	50	29	--	--	295	0	24	6.0	.1	--	278	250	7.3
07/04/17-0176 VIL OF WAUZEKA		319	---	062966	1.03	57	30	2.0	--	299	0	21	1.0	.2	1.8	278	266	8.0
DANE COUNTY																		
07/09/13-0007 CITY OF MADISON		731	SANDSTONE	062366	.33	59	32	3.6	--	317	0	16	3.7	.2	.4	--	281	7.5
				020261	.26	55	30	--	--	322	0	18	3.5	.1	.0	284	284	7.5
06/06/12-0009 VILL MT HOREB		800	SANDSTONE	072166	.06	77	45	8.2	--	380	0	50	14	.2	24	462	381	7.9
				052063	.06	84	45	--	--	383	0	48	17	.0	28	486	394	7.4
				010245	.00	76	53	--	--	383	0	50	20	.1	--	434	430	7.3
06/06/12-0010 VILL MT HOREB		777	SANDSTONE	072166	.06	70	39	3.5	--	340	0	34	5.5	.2	24	394	336	7.8
				052063	.05	72	37	--	--	337	0	28	5.5	.0	30	388	334	7.5
08/06/16-0012 VIL MAZOMANIE		502	SANDSTONE	071966	.37	60	37	1.7	--	344	0	17	.4	.1	1.8	298	304	7.5
				021445	.40	51	36	--	--	350	0	17	8.0	.1	--	294	295	7.3
06/10/13-0013 VIL MCFARLAND		560	SANDSTONE	072666	.06	71	40	2.8	--	390	0	17	4.3	.1	1.2	372	345	7.7
				030945	.00	72	36	--	--	410	0	8.5	9.7	.1	--	338	360	7.2
05/11/05-0019 VIL STOUGHTON		1008	SANDSTONE	072566	1.46	70	35	3.0	--	374	0	22	3.9	.2	.4	340	322	7.9
				122061	1.48	72	36	--	--	381	0	19	4.0	.0	.0	336	328	7.3
				122044	1.32	69	33	--	--	383	0	11	5.2	--	--	322	320	--
08/09/09-0027 VIL OF WAUNAKEE		305	SANDSTONE	062266	.06	62	32	3.5	--	293	0	21	5.1	--	4.5	350	287	7.4
08/11/05-0028 VIL SUN PRARIE		783	SANDSTONE	062966	.05	75	43	3.6	--	403	0	5.0	6.0	.2	2.1	352	360	7.3
				120864	.06	74	42	--	--	403	0	5.0	6.0	.2	2.1	352	360	7.1
08/12/10-0029 VIL OF MARSHALL		372	SANDSTONE	062966	.13	60	36	2.9	--	351	0	11	.5	.2	.4	314	299	7.4

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
DANE COUNTY (CONTINUED)																		
				020261	.46	70	36	--	--	398	0	14	.0	.0	.0	328	335	7.3
07/10/05-0054	CITY OF MADISON	774	MULTIPLE	031071	--	61	41	5	--	390	0	14	6.0	.2	.3	--	320	7.5
				062366	.46	75	38	3.8	--	388	0	12	4.0	.2	.4	374	345	7.4
				042761	.29	72	42	--	--	351	0	38	18	.1	2.2	396	348	7.3
07/08/11-0056	VIL MIDDLETON	330	SANDSTONE	071966	.10	68	33	2.5	--	352	0	11	2.1	.1	1.6	314	308	7.5
				061363	.14	67	34	--	--	356	0	5.0	1.0	--	1.6	--	306	7.5
				013162	.13	62	35	--	--	359	0	5.0	.5	.0	1	302	299	7.3
				012945	.00	63	38	--	--	351	0	4.5	7.0	.1	--	290	310	7.5
07/11/09-0063	VIL COTTAGE GVE	400	SANDSTONE	062966	.06	66	42	3.3	--	395	0	19	12	.2	6.7	390	368	7.3
				112965	.10	77	42	--	--	395	0	18	12	.2	6.7	380	368	7.3
				012645	.00	70	45	--	--	388	0	8.0	8.0	.1	--	346	355	7.3
07/09/19-0064	CITY OF MADISON	300	SANDSTONE	031071	--	59	36	2.5	--	344	0	8.0	4.0	.2	10	--	296	7.7
				062366	.06	66	32	2.1	--	329	0	9.0	2.9	.2	2.6	324	297	7.4
				102650	.00	61	30	--	--	340	0	11	2.5	.0	9.7	310	290	7.4
07/12/21-0065	VILL DEERFIELD	523	SANDSTONE	062766	.08	60	47	3.2	--	407	0	7.0	.6	.2	.5	368	347	7.5
				122344	.00	54	52	--	--	432	0	5.0	7.0	.1	--	348	380	7.3
07/12/21-0066	VILL DEERFIELD	706	SANDSTONE	062766	.36	56	53	2.9	--	414	0	10	.8	.2	.4	376	361	7.6
				122344	.60	51	50	--	--	429	0	5.0	8.0	.1	--	--	370	7.3
05/09/12-0073	VIL OF OREGON	394	SANDSTONE	072566	.06	67	33	3.7	--	320	0	24	7.0	.2	24	376	304	7.6
				111555	2.40	--	--	--	--	--	--	--	--	--	--	--	332	--
05/11/05-0078	VIL STOUGHTON	1009	SANDSTONE	072566	1.28	64	36	2.2	--	392	0	6.0	.3	.1	.4	318	310	7.9
				122061	3.02	59	35	--	--	371	0	6.5	.0	.0	.1	300	306	7.9
				122044	1.32	63	32	--	--	383	0	5.0	3.3	.1	--	302	320	7.6
05/11/05-0079	VILL STOUGHTON	950	MULTIPLE	072566	.37	64	41	2.5	--	390	0	17	1.6	.2	.4	344	330	7.7
				122061	1.22	66	37	--	--	392	0	14	.0	.0	.0	332	324	7.1
06/08/15-0082	VILLAGE VERONA	771	SANDSTONE	062066	.06	61	33	2.9	--	317	0	9.0	2.3	.2	15	336	291	7.5
				122344	.00	62	30	--	--	339	0	3.2	4.5	.1	--	288	305	7.3
				010135	.00	--	--	--	--	351	0	.0	5.0	--	7.0	293	318	--
09/06/25-0083	MAZO HUNT GRNDS	146	GLACIAL	042560	4.80	--	--	--	--	353	0	.3	1.5	.2	.6	--	290	7.9
09/08/14-0086	VILLAGE OF DANE	300	SANDSTONE	062266	.06	76	39	7.9	--	327	0	41	14	.2	6.7	--	350	7.4
				120159	.04	72	38	--	--	274	0	40	12	.1	--	384	335	7.5
				120149	.00	34	47	--	--	336	0	112	27	.1	--	526	424	7.3
07/10/16-0087	CITY OF MADISON	943	MULTIPLE	031071	--	60	43	4.0	--	393	0	14	7.0	--	--	--	328	7.9

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CC 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
DANE COUNTY (CONTINUED)																		
				062366	.06	72	34	2.9	--	359	0	11	4.5	.2	1.7	364	323	7.3
				020261	.10	64	32	--	--	359	0	8.5	3.5	.1	2.1	316	316	7.4
07/09/32-0096	CITY OF MADISON	1000	MULTIPLE	062366	.28	71	34	1.9	--	354	0	7.0	.6	.1	.4	330	317	7.4
				020261	.25	60	30	--	--	351	0	7.5	.0	.2	.0	--	298	7.4
07/10/17-0109	VIL OF MONONA	301	SANDSTONE	062066	.06	77	38	4.5	--	361	0	30	10	.2	3.8	413	352	7.4
				042761	.00	59	35	--	--	344	0	2.8	.0	.0	1.6	272	291	7.4
06/12/02-0112	WIS DEPT PUB WF	281	MULTIPLE	032662	.08	59	29	7.0	--	283	0	22	2.0	.1	28	296	268	7.8
				090359	.04	68	36	--	--	305	0	40	7.0	--	--	--	320	7.4
08/11/05-0114	CITY SUN PRARIE	860	SANDSTONE	062966	.06	67	34	3.2	--	346	0	12	5.0	.4	4.0	318	308	7.4
				120864	.06	72	38	--	--	383	0	6.0	3.0	.2	2.9	332	336	7.3
07/08/11-0119	VIL MIDDLETON	600	SANDSTONE	071966	.06	69	32	2.5	--	344	0	11	2.2	.1	2.1	314	306	7.5
				061363	.04	66	34	--	--	339	0	10	3.0	--	2.2	--	304	7.4
				022762	.08	66	30	--	--	346	0	--	--	--	--	--	298	7.4
				013162	.08	63	35	--	--	349	0	12	1.5	.0	2.5	310	302	7.1
07/10/30-0121	CITY OF MADISON	828	MULTIPLE	031071	--	49	33	3.0	--	310	0	14	3.0	.2	.7	--	260	7.9
				062366	.18	58	32	3.0	--	312	0	13	2.0	.2	.5	304	277	7.4
				020261	.00	57	29	--	--	327	0	1.2	1.5	.1	.4	274	283	7.4
06/09/26-0122	STATE OF WIS	860	SANDSTONE	040164	.15	--	--	--	--	354	--	--	--	--	--	--	280	8.3
				122062	2.04	49	41	--	--	342	0	14	2.0	.0	.3	304	292	7.3
07/10/04-0139	CITY OF MADISON	752	MULTIPLE	062366	.06	65	38	2.6	--	371	0	8.0	1.6	.2	1.0	348	323	7.4
				080161	.11	48	39	3.1	1.3	340	0	7.6	2.0	--	.7	285	281	7.8
				020261	.00	59	32	--	--	372	0	2.5	.0	.1	.2	306	308	7.4
				072656	--	57	36	--	--	366	0	3.5	2.0	.0	--	414	308	7.6
07/09/30-0144	CITY OF MADISON	986	SANDSTONE	062366	.06	61	33	1.9	--	327	0	6.0	.3	.4	.4	294	289	7.4
				080161	.06	60	32	2.2	1.0	335	0	10	1.0	--	.2	286	281	7.6
				042761	.06	59	34	--	--	325	0	.7	.0	.0	.2	282	272	7.4
07/07/03-0145	VIL CROSS PLAIN	253	SANDSTONE	071966	.06	68	37	2.3	--	361	0	12	2.3	.1	2.3	314	324	7.5
				032863	.09	68	34	--	--	359	0	8.5	3.0	.0	2.6	312	312	7.3
				012158	.04	68	40	--	--	368	0	9.5	3.0	.1	--	320	314	7.4
07/08/01-0214	A J MEYER	32	GLACIAL	042060	2.10	--	--	--	--	366	0	36	2.0	.1	.5	--	330	7.9
07/07/10-0226	F RODENSCHMIDT	110	SANDSTONE	042358	.04	69	35	3.0	--	329	0	29	10	.1	--	360	318	7.4
07/07/03-0229	J I HILLEBRAND	67	GLACIAL	042358	.04	57	32	2.0	--	290	0	16	3.0	.1	--	264	256	7.7

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
DANE COUNTY (CONTINUED)																		
08/07/31-0271 OTTO ROLFS		75	SANDSTONE	040958	.60	59	30	3.0	--	283	0	15	4.5	.1	--	272	256	7.8
07/08/07-0272 SUNNYSIDE FARM		25	GLACIAL	040958	.04	79	46	--	--	344	0	58	16	.1	--	424	368	7.6
07/08/17-0275 RAYMOND KUBISTA		215	SANDSTONE	041058	.10	71	40	3.0	1.5	366	0	18	4.5	.1	--	348	328	7.6
07/10/20-0300 VILLAGE--MONONA		500	SANDSTONE	062066	.06	73	43	4.2	--	393	0	19	77	.2	2.0	400	362	7.7
09/10/17-0301 VIL OF DEFGREST		413	SANDSTONE	062066	.06	57	29	2.7	--	315	0	4.0	.6	.2	.6	276	266	7.5
				060960	.35	58	31	--	--	333	0	2.5	1.0	.0	.1	280	275	7.2
07/09/16-0303 EDWARD YOUNG		100	SANDSTONE	062858	.20	73	40	--	--	359	0	22	10	.1	--	348	324	7.6
07/10/10-0307 CITY OF MADISON		500	SANDSTONE	062366	.64	72	35	2.7	--	361	0	8.0	2.9	.2	2.6	352	327	7.4
07/10/34-0312 VIL MCFARLAND		500	SANDSTONE	072666	.06	71	39	3.2	--	376	0	25	5.2	.2	3.3	--	341	7.7
06/08/22-0316 VILLAGE VERONA		1158	SANDSTONE	021767	.10	60	37	2.5	--	344	0	7.0	2.0	.2	7.5	308	302	7.4
				101265	.24	64	30	--	--	334	0	9.0	3.0	.1	15	298	284	7.3
				040159	.04	59	41	1.5	2.6	367	0	13	1.0	.1	--	354	310	7.5
05/07/32-0330 PLAINVIEW SCH		90	DOL-SS	031170	1.43	67	37	1.4	.8	350	0	24	.8	.1	.0	305	319	7.7
05/09/12-0337 VILL OF OREGON		196	SANDSTONE	072566	.06	62	37	3.0	--	306	0	20	4.8	.2	4.4	--	310	7.8
				010135	.00	--	--	--	--	305	0	7.0	8.0	--	18	306	292	--
07/08/11-0339 VIL MIDDLETON		218	---	012945	.00	71	40	--	--	339	0	38	8.0	.1	--	340	340	7.4
06/12/12-0369 VIL OF CAMBRIDG		200	SANDSTONE	063066	.72	67	36	3.4	--	367	0	9.0	1.6	.1	.4	312	318	7.7
				122844	1.20	67	35	--	--	378	0	3.4	7.0	.1	--	314	310	7.5
09/10/17-0370 VIL OF DEFOREST		420	SANDSTONE	062066	.11	68	40	5.2	--	356	0	30	7.5	.2	.9	368	335	7.5
				060860	.08	66	38	--	--	361	0	29	6.0	.1	.5	342	328	7.1
08/09/25-0372 CITY OF MADISON		776	SANDSTONE	062366	.11	65	36	3.9	--	359	0	10	5.0	.2	.6	348	317	7.4
				042761	.04	62	42	--	--	388	0	8.3	3.0	--	1.6	320	315	7.3
05/06/20-0375 S SYFTESTAD		65	DOL-SS	090359	.60	22	8.8	--	--	30	0	22	8.8	--	--	218	88	6.6
09/12/12-0380 WALTER FLOSSMAN		80	DOL-SS	081959	.04	88	42	--	--	417	0	27	36	.1	--	468	408	7.6
09/12/25-0386 FRED ZUBKE		101	DOL-SS	031959	.10	69	34	--	--	383	0	14	2.5	.1	--	342	322	--
09/12/29-0387 FRANK FREIDEL		172	SANDSTONE	081059	1.80	76	45	--	--	444	0	6.0	1.0	.1	--	370	370	7.4
08/12/01-0388 DON HARLESS		149	SANDSTONE	081959	.04	76	40	--	--	434	0	14	1.0	.1	--	388	374	7.7

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
DANE COUNTY (CONTINUED)																		
08/12/13-0390	HUBERT BARTOSCH	96	DOL-SS	081959	.04	71	37	--	--	366	0	20	4.5	.1	--	348	330	7.8
08/12/33-0399	ED SCHEY	102	SANDSTONE	082159	.23	80	46	--	--	400	2	33	10	.1	--	410	378	--
08/12/35-0401	WM MILLER	124	DOL-SS	082159	--	92	42	--	--	400	0	38	15	.1	--	566	428	7.9
09/11/12-0405	STANLEY MAIN	87	DOL-SS	081759	.04	90	58	--	--	407	0	64	46	.1	--	568	458	7.6
09/11/35-0410	HAROL WIESENSEL	88	DOL-SS	081759	.04	64	34	--	--	315	0	33	9.0	.1	--	340	298	8.2
09/11/07-0411	JOES KALTENBERG	140	DOL-SS	081759	1.12	73	36	--	--	356	0	28	2.5	.1	--	334	318	7.6
09/10/27-0415	WALTER RENK	305	SANDSTONE	081959	.04	68	35	--	--	--	--	32	5.0	.1	--	376	324	8.5
09/11/21-0416	JOHN BENNESH	142	DOL-SS	081959	.04	75	43	--	--	383	0	49	9.0	.1	--	386	364	7.6
08/11/05-0421	SCHEY PIRKL	130	DOL-SS	082159	.04	73	40	--	--	378	0	31	4.5	.1	--	388	349	7.6
08/11/23-0430	JOSEPH DOLLAK	64	DOL-SS	082459	.04	75	37	--	--	364	0	32	11	.1	--	422	348	7.6
09/10/21-0434	DONALD LEONARD	106	SANDSTONE	082459	.04	59	29	--	--	285	0	24	5.5	.1	--	326	272	8.0
09/10/08-0439	HERMAN KESSNICH	179	SANDSTONE	082659	.04	40	32	--	--	282	0	.8	1.5	.1	--	228	230	8.2
06/06/07-0487	JAMES CROSS	145	DOL-SS	031270	.73	103	57	41	5.4	442	0	133	57	.1	13	636	492	7.2
07/12/15-0507	RAY PAVIOK	240	DOL-SS	090159	.04	72	42	--	--	415	8	7.5	4.0	--	--	360	354	8.3
06/12/23-0509	HENRY TELLEFSON	64	DOL-SS	090259	.04	64	35	--	--	325	0	28	3.0	.1	--	348	307	7.6
06/12/17-0517	CHESTER ROUM	147	DOL-SS	090359	.80	81	41	--	--	373	0	43	9.5	.1	--	484	377	7.6
06/11/31-0529	ROBERT DVORAK	62	GLACIAL	042160	.44	--	--	--	--	308	0	27	4.5	.2	62	--	326	8.0
06/10/23-0542	PETER KUHN	170	GLACIAL	012960	1.45	--	--	--	--	374	0	4.2	2.0	.5	--	--	305	7.8
				022855	4.00	--	--	--	--	--	--	--	--	--	--	--	292	--
05/11/22-0588	GUNNAR SKJOLAAS	64	GLACIAL	041960	.22	--	--	--	--	344	0	31	14	.1	30	--	332	7.9
06/06/12-0611	VILL MT MOREB	254	DOL-SS	012545	.00	95	61	--	--	395	0	82	60	.1	--	584	490	7.3
				010135	.00	--	--	--	--	379	0	60	50	--	35	569	390	--
06/06/12-0612	VILL MT MOREB	250	DOL-SS	082345	1.40	69	33	--	--	322	0	26	14	.1	--	--	308	7.3
				010135	.00	--	--	--	--	322	0	11	8.0	--	18	292	284	--
05/10/07-0655	FENTON ABRAMS	110	GLACIAL	041860	.01	--	--	--	--	290	0	18	5.5	.1	9.4	--	266	8.0

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
DANE COUNTY (CONTINUED)																		
09/09/26-0677 RUFUS MARALSON		110	GLACIAL	042960	5.41	--	--	--	--	340	0	35	2.5	.1	.2	--	309	7.9
07/08/02-0698 VIL MIDDLETON		851	MULTIPLE	101662	3.23	66	--	--	--	373	--	5.5	.0	--	.0	--	304	--
				021362	2.40	--	--	--	--	388	0	--	--	--	.1	--	--	7.2
				013162	2.04	64	34	--	--	373	0	2.0	.0	.2	.0	306	298	7.0
				112860	.96	--	--	--	--	--	--	--	.0	--	--	--	311	--
05/09/24-0706 LYMAN ANDERSON		114	DOL-SS	050560	.02	--	--	--	--	416	0	45	24	.1	.82	--	454	7.8
05/09/36-0708 MRS EMILY BEYER		177	DOL-SS	031070	2.16	65	31	4.2	.6	342	0	4.4	.5	.1	1.3	--	290	7.4
07/09/18-0715 CITY OF MADISON		715	MULTIPLE	052272	.01	70	39	3.8	1.0	370	0	18	8.0	.2	13	356	340	7.6
				062366	.06	73	35	2.8	--	346	0	19	5.1	.2	3.7	332	329	7.4
				101360	.10	52	27	--	--	355	0	9.8	4.0	.1	14	--	303	7.6
				100560	.40	--	24	--	--	350	0	--	3.5	--	13	430	306	--
09/10/29-0878 WINDSOR SD NO 1		401	SANDSTONE	062066	.22	60	32	2.9	--	324	0	7.0	.4	.2	.6	280	283	8.0
				030162	.24	60	30	--	--	340	0	6.5	.0	.0	.0	280	276	7.6
				111461	.11	--	--	--	--	--	0	6.0	1.0	.0	--	238	268	8.2
09/10/06-0881 SAN DISTRICT 1		200	SANDSTONE	062066	.06	89	40	31	--	312	0	54	21	.2	6.7	436	388	7.3
				030162	.24	86	39	--	--	359	0	59	20	.1	1.6	454	376	7.6
06/09/05-0882 SANITARY DIST 2		310	SANDSTONE	080466	.06	80	35	3.4	--	362	0	26	8.5	--	4.3	418	344	7.6
08/11/05-0888 CITY SUN PRARIE		890	SANDSTONE	062966	.06	64	38	3.2	--	393	0	6.0	3.0	.2	2.9	332	336	7.5
				120864	.14	67	34	--	--	346	0	12	5.0	.4	4.0	318	308	7.3
				110162	.04	--	--	--	--	342	0	--	--	--	--	--	320	7.6
08/06/16-0893 VIL MAZOMANIE		640	SANDSTONE	071966	.63	64	34	2.5	--	343	0	15	1.7	.1	1.8	286	300	7.4
				050663	.72	60	34	--	--	337	0	23	2.0	--	.0	314	290	7.1
05/11/05-0900 VIL-STOUGHTON		969	MULTIPLE	072566	.06	64	31	2.3	--	324	0	18	2.8	.2	2.8	342	290	7.8
				073063	.05	66	32	--	--	320	0	13	2.0	.0	--	--	296	7.4
				072963	.10	--	--	--	--	--	--	--	--	--	--	--	--	--
				072963	.12	--	--	--	--	--	--	--	--	--	--	--	--	--
				071563	4.49	--	--	--	--	--	--	--	--	--	--	--	--	--
				071563	4.59	--	--	--	--	--	--	--	--	--	--	--	--	--
				062763	.14	67	31	--	--	315	0	9.5	4.0	.0	--	322	294	7.3
				062663	.68	--	--	--	--	--	--	--	--	--	--	--	--	--
				062663	.22	--	--	--	--	--	--	--	--	--	--	--	--	--
				051663	.40	64	31	--	--	316	0	6.0	3.2	.2	--	--	288	--
				050163	.60	--	--	--	--	--	--	--	--	--	--	--	--	--
08/06/08-0903 GAYLORD KNIGHT		17	GLACIAL	122864	2.87	--	--	--	--	319	0	16	11	--	12	313	290	7.8

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
DANE COUNTY (CONTINUED)																		
08/09/09-0914	VIL OF WAUNAKEE	420	SANDSTONE	062266	.07	60	34	2.0	--	339	0	4.0	.6	.2	.6	314	293	7.6
08/06/04-0918	CLARENCE HENN	20	GLACIAL	122864	.15	--	--	--	--	62	0	27	50	--	46	278	146	6.9
08/06/07-0919	L TIEDEMAN	30	GLACIAL	122864	.12	--	--	--	--	312	0	19	10	--	6.4	288	284	7.8
07/08/12-0921	VILL MIDDLETON	807	SANDSTONE	071966	.06	68	35	2.2	--	364	0	11	.3	.1	.4	292	298	7.6
				071966	.06	70	32	2.2	--	365	0	11	.4	.1	.4	314	310	7.7
				071966	1.00	70	34	2.1	--	361	0	9.0	.0	.1	.0	338	308	7.4
				090765	.69	67	34	--	--	361	0	9.0	.0	--	.0	--	308	--
				070164	--	65	--	--	--	353	0	--	--	--	--	304	302	7.5
07/10/25-0928	EVAN ACRES INC	460	SANDSTONE	072066	.06	64	50	2.6	--	436	0	11	2.3	.2	1.0	376	366	7.8
08/10/29-0930	CITY MADISON	753	SANDSTONE	031071	--	60	39	4.0	--	376	0	14	4.0	.2	--	--	312	7.6
				072866	.44	67	33	2.8	--	324	0	7.0	2.7	.1	18	472	306	7.8
05/09/01-0934	VILLAGE OREGON	953	SANDSTONE	083167	.06	66	32	2.0	--	346	0	2.0	.5	.1	1.8	298	296	7.3
08/10/01-0941	CITY SUN PRARIE	884	SANDSTONE	031166	.10	--	--	--	--	237	0	--	--	--	--	--	278	8.0
05/09/29-0989	GILES GOBEL	90	DOL-SS	033170	.06	70	33	5.1	.8	334	0	20	7.1	.1	21	338	310	7.4
07/07/33-0990	RUSSELL SHEA	60	MULTIPLE	040170	.07	66	32	4.2	.9	302	0	20	11	.1	18	312	296	7.5
08/07/05-0992	LYNN SESTON	210	---	102070	.21	64	31	2.2	.8	332	0	13	3.0	.1	3.8	284	290	7.8
05/10/04-0999	WM SYBERT	51	DOL-SS	110372	.05	74	34	4.2	1.0	368	0	14	7.4	.1	.0	330	330	7.7
				051772	--	67	37	4.0	1.0	364	0	15	7.5	.1	5.6	324	320	7.4
DODGE COUNTY																		
11/16/06-0006	CITY OF HORICON	725	SANDSTONE	071362	1.00	52	38	--	--	395	0	87	8.0	--	--	458	286	7.5
				040347	.20	84	28	--	--	379	0	25	8.0	.3	--	384	340	7.3
10/15/24-0016	VILL OF CLYMAN	733	MULTIPLE	062866	.73	76	41	5.7	--	383	0	39	8.0	.2	1.8	394	359	7.3
				030663	.45	82	47	--	--	387	0	64	25	.0	.1	440	398	7.3
				032758	.04	72	51	--	--	400	0	44	13	.0	--	--	390	7.4
				110347	.20	--	--	--	--	410	0	40	11	--	--	--	336	7.2
11/15/22-0018	VIL OF JUNEAU	770	SANDSTONE	072666	1.01	67	30	2.9	--	345	0	20	1.9	.3	2.2	312	294	7.8
				061345	.80	61	26	--	--	299	0	29	10	.3	--	298	273	7.3
11/16/24-0019	VIL IRON RIDGE	500	SANDSTONE	072566	.63	67	37	8.2	--	360	0	22	5.3	.4	2.2	--	322	7.7

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
DODGE COUNTY (CONTINUED)																		
				111947	.54	75	40	--	--	386	0	37	9.0	.4	--	366	320	7.5
10/16/09-0020	INDUSTR DEVL CO	250	DOL-SS	102064	.66	77	38	--	--	399	0	24	13	.2	.5	380	348	7.2
11/15/21-0022	VILL OF JUNEAU	666	SANDSTONE	072666	.83	72	28	2.8	--	344	0	20	2.2	.3	2.2	334	298	7.8
				061345	.80	69	31	--	--	349	0	20	14	.2	--	322	310	7.3
13/15/05-0023	WAUPUN PRISON	798	MULTIPLE	072166	1.23	66	31	3.7	--	329	0	20	3.2	.2	1.8	304	294	7.8
				060662	1.10	58	16	--	--	322	0	20	5.0	--	--	302	211	7.4
13/15/05-0024	WAUPUN PRISON	800	SANDSTONE	072166	.75	57	22	2.8	--	246	0	24	3.0	.2	1.8	250	225	7.8
11/14/04-0025	CITY BEAVER DAM	585	SANDSTONE	021951	.70	61	26	--	--	323	0	22	6.0	.0	--	300	294	7.5
12/14/33-0029	CITY BEAVER DAM	520	SANDSTONE	052666	1.14	67	33	2.5	--	334	0	20	1.5	.2	2.2	308	304	7.3
				020259	.00	67	34	--	--	350	0	24	3.0	--	--	--	03	7.3
				110745	.10	65	28	--	--	340	0	24	6.5	--	--	--	260	7.3
13/17/03-0038	VIL BROWNSVILLE	1220	SANDSTONE	072566	.38	72	34	52	--	193	0	73	125	.5	.1	520	320	7.4
				080465	.43	72	34	52	--	193	0	73	125	--	.0	520	320	7.4
				060662	.35	66	35	--	--	190	0	73	122	--	--	455	309	7.5
13/13/25-0040	CITY FOX LAKE	440	SANDSTONE	072066	1.12	67	34	2.9	--	354	0	16	1.0	.2	.3	304	320	7.6
				010566	.24	67	34	2.9	1.1	354	0	16	1.0	.2	.3	304	308	7.5
				072062	.87	66	36	--	--	348	0	14	1.5	.1	.0	310	314	7.4
				042545	1.54	84	41	--	--	418	0	41	19	.2	--	--	430	7.4
13/17/15-0043	VIL OF LOMIRA	1195	SANDSTONE	022067	.56	84	37	28	--	237	0	79	108	.6	.7	524	362	7.6
				072766	.56	81	36	25	--	237	0	80	95	.6	.4	514	352	7.7
				021765	.52	81	36	25	6.0	237	0	80	95	.6	.4	514	352	7.7
				072761	.44	80	36	26	--	242	0	77	100	.5	.0	572	356	7.5
				011146	.60	81	35	--	--	251	0	82	104	.4	--	552	363	7.4
13/17/15-0044	VIL OF LOMIRA	1207	SANDSTONE	022067	.20	89	44	6.6	--	361	0	70	19	.2	22	472	402	7.4
				072766	.06	86	42	6.9	--	370	0	64	14	.3	14	438	390	7.5
				021765	.28	86	42	6.9	2.6	370	0	64	14	.3	14	438	390	7.5
				072761	.07	88	44	--	--	362	0	78	14	.1	12	490	402	7.3
12/16/23-0045	CITY MAYVILLE	794	SANDSTONE	070171	.31	60	29	15	--	--	--	36	41	.4	--	352	270	7.7
				070566	.25	76	34	18	--	378	0	48	2.5	--	.2	388	330	7.3
				121964	.54	76	34	18	4.0	378	0	48	2.5	--	.2	388	330	7.3
				102864	.78	69	30	18	--	300	0	41	33	--	--	372	298	7.6
12/16/23-0046	CITY MAYVILLE	797	SANDSTONE	070171	.63	62	28	20	--	--	--	29	58	1.1	--	360	270	7.6
				070566	.36	67	27	20	--	249	0	27	67	.5	.2	396	280	7.4

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
DODGE COUNTY (CONTINUED)																		
				121764	.26	67	27	20	5.2	249	0	27	67	.5	.2	396	280	7.4
				102864	.28	69	28	20	--	244	0	24	67	1.4	.2	410	288	7.7
				011646	.20	72	33	--	--	342	0	48	30	.3	--	370	335	7.3
10/16/05-0049 VIL HUSTISFORD	253 SANDSTONE	062866	9.88	74	34	5.2	--	361	0	16	2.0	.2	.3	326	312	7.2		
		102064	.54	68	34	--	--	361	0	16	2.0	.2	.3	326	312	7.2		
12/17/10-0050 VIL OF THERESA	106 GLACIAL	072566	.23	57	39	15	--	359	0	42	5.3	.2	2.2	360	306	7.8		
		100958	.10	56	44	--	--	359	0	34	5.0	.1	--	340	302	7.3		
12/16/14-0058 PURITY CHEESE C	550 DOL-SS	082966	1.34	84	45	5.9	--	400	0	62	10	.2	.4	448	400	7.4		
		121764	1.24	86	42	5.2	1.0	390	0	60	8.5	.3	.1	452	388	7.2		
10/15/26-0064 VIL OF CLYMAN	523 MULTIPLE	062866	.29	88	41	5.7	--	383	0	40	9.0	.3	1.8	462	390	7.3		
		030663	.34	82	39	--	--	381	0	52	9.0	.2	.1	390	366	7.4		
		032758	.20	--	--	--	--	410	0	--	--	--	--	--	400	7.5		
10/15/26-0070 VIL OF CLYMAN	273 DOL-SS	022846	.40	--	--	--	--	329	0	40	3.0	--	--	--	240	7.6		
13/13/35-0073 GREEN GIANT CAN	540 SANDSTONE	083166	1.63	67	32	3.2	--	362	0	17	1.0	.2	.4	320	308	7.4		
13/13/11-0074 WISC CORR INST	375 SANDSTONE	022862	.94	65	30	--	--	340	0	8.5	2.0	.1	.0	--	284	7.4		
		121960	.66	--	--	--	--	341	0	--	.0	--	--	--	283	7.4		
		092560	.74	--	--	--	--	361	0	--	.5	--	--	362	296	7.3		
13/13/11-0077 WISC CORR INST	375 SANDSTONE	072062	.50	64	29	--	--	316	0	17	1.5	.1	.0	356	280	7.3		
		110360	.42	--	--	--	--	--	0	--	--	--	--	356	268	7.3		
15/17/35-0082 STATE HWY COMM	140 NIAGARA	051172	.11	72	34	10	3.5	352	0	45	3.5	.2	.2	354	320	8.0		
		071469	.39	71	35	11	2.5	348	0	50	4	.3	.3	348	321	7.6		
		042368	.53	70	36	9.8	2.9	356	0	47	5	.2	.5	356	323	7.7		
10/14/26-0091 VILL REESEVILLE	208 DOL-SS	072661	.64	62	30	--	--	316	0	20	5.0	.2	.0	298	284	7.4		
		062866	.67	64	31	4.9	--	317	0	22	4.0	.2	1.8	310	289	7.5		
13/17/03-0094 CALIF CANNERS	1273 MULTIPLE	040472	.18	71	31	32	5.4	213	0	91	82	.5	.2	416	300	7.9		
		091570	.41	62	30	23	4.2	208	0	59	64	.6	.3	407	278	7.8		
		030469	.63	52	25	23	3.4	196	0	51	42	.4	.1	318	233	7.9		
		030469	.32	52	21	21	--	176	0	48	40	.8	.3	310	216	7.7		
11/16/25-0112 VIL IRON RIDGE	525 SANDSTONE	072566	.70	69	35	7.8	--	377	0	23	3.2	.3	2.2	326	318	7.8		
12/16/14-0130 CITY MAYVILLE	800 SANDSTONE	070171	--	89	54	9.0	--	--	--	105	7.0	.3	.2	--	456	7.6		
		070566	1.43	76	46	3.7	--	390	0	42	6.0	.4	.4	400	376	7.3		
		032565	1.34	76	46	3.7	1.0	390	0	42	6.0	.4	.3	400	376	7.3		

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
DODGE COUNTY (CONTINUED)																		
09/14/04-0132 HAROLD ZUELKE		185	PRECAMB.	051967	.00	--	--	--	--	393	0	82	69	--	.1	552	505	7.8
10/16/10-0133 VIL HUSTISFORD		235	SANDSTONE	062866	.54	72	34	4.9	--	361	0	22	3.8	.3	.1	318	318	7.3
				031866	.58	72	34	4.9	1.9	361	0	22	3.8	.3	.2	318	318	7.3
				060865	.06	--	--	--	--	243	0	--	--	--	--	--	256	8.1
11/15/21-0135 VILL OF JUNEAU		625	SANDSTONE	042165	.56	--	--	--	--	332	0	--	--	--	.4	--	294	7.2
12/16/23-0145 CITY MAYVILLE		918	SANDSTONE	070171	.47	55	31	12	--	--	--	30	14	.4	.3	314	264	7.7
				070566	.60	62	28	14	--	295	0	35	15	.5	.2	312	272	7.4
				121764	.30	62	28	14	2.5	295	0	35	15	.5	.2	312	272	7.4
				102864	.56	63	31	13	--	293	0	40	16	.6	.4	334	284	7.8
				011646	.30	63	28	--	--	270	0	43	34	.3	--	340	280	7.5
11/15/23-0148 DODGE CO HOSPTL		650	---	072666	.91	67	30	2.9	--	340	0	24	2.0	.3	2.2	304	294	7.8
				021846	.50	66	36	--	--	406	0	14	6.0	.1	--	346	305	7.5
12/13/15-0158 HERB BREUCHNER		74	DOL-SS	052667	.93	--	--	--	--	332	0	41	7.5	--	.0	340	319	7.4
13/14/14-0163 RAY JEFFORDS		153	DOL-SS	051667	.49	--	--	--	--	386	0	71	4.0	--	.4	422	390	7.6
10/14/09-0170 RAYMON WESTPHAL		138	GLACIAL	051967	.47	--	--	--	--	326	0	23	4.0	--	.4	298	297	8.0
12/16/32-0178 GARY MILLER		202	DOL-SS	051967	.41	--	--	--	--	403	0	90	16	--	.2	470	415	7.9
09/15/03-0190 WESLEY RHODES		138	MULTIPLE	052667	.00	--	--	--	--	457	0	119	25	--	.5	570	523	7.5
09/13/09-0216 ERWIN BUSS		113	DOL-SS	051967	.44	--	--	--	--	437	0	19	2.0	--	.0	384	374	7.8
12/14/25-0229 MR VOIGHTS		143	DOL-SS	052067	.00	--	--	--	--	346	0	50	13	--	11	398	365	7.6
12/14/32-0251 CITY BEAVER DAM		510	SANDSTONE	052666	1.26	71	34	3.7	--	341	0	22	1.4	.2	2.2	318	316	7.2
				110745	.60	66	32	--	--	345	0	25	6.0	.1	--	322	320	7.2
12/17/10-0252 VIL OF THERESA		110	GLACIAL	032164	.12	67	38	--	--	378	0	18	6.0	.0	.1	336	324	7.4
DOOR COUNTY																		
27/26/07-0001 CITY STURGON BY		313	NIAGARA	063066	.52	63	34	3.5	--	320	0	21	8.0	.3	14	362	312	7.4
27/26/08-0002 CITY STURGON BY		288	NIAGARA	063066	1.94	74	32	2.8	--	337	0	24	8.5	.1	1.8	348	320	7.8
				033060	.04	71	34	--	--	334	0	34	9.0	.1	--	356	326	7.4
27/26/06-0003 CITY STURGON BY		305	NIAGARA	063066	.06	70	30	1.4	--	307	0	23	5.5	.1	14	336	300	8.2

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
DOOR COUNTY (CONTINUED)																		
27/26/07-0004	CITY STURGON BY	1178	MULTIPLE	110167	.26	67	33	14	--	288	0	36	28	.6	4.6	324	304	7.8
				102254	.00	103	40	--	--	281	0	128	114	.4	--	666	423	7.3
				010145	.10	--	--	--	--	256	0	13	141	--	--	769	453	--
27/26/08-0013	CITY STURGON BY	425	NIAGARA	063066	.06	75	34	5.1	--	337	0	24	16	.2	12	374	329	7.5
31/27/23-0017	PENINSULA ST PK	200	NIAGARA	052968	.03	74	37	--	--	372	0	25	3.0	--	.5	322	337	7.7
31/27/16-0018	PENINSULA ST PK	452	DOL-SS	052372	.58	360	110	8.2	5.1	234	0	1000	22	5.6	.5	1920	1400	7.3
				070770	.17	344	107	9	4.4	245	0	1080	20	1.9	.1	1710	1300	7.3
				052068	.45	286	83	7.1	3.6	268	0	776	14	2.0	.3	1430	1060	7.4
29/25/36-0027	POTAWATOMI STPK	180	NIAGARA	053068	1.25	--	--	--	--	350	0	5.6	3.0	--	.5	278	295	8.1
30/28/20-0028	BAILEYS HAR ELE	180	NIAGARA	111072	.07	62	33	.8	.8	326	0	13	1.1	.2	.4	274	290	7.9
23/26/22-0033	UW EXPR FARM	440	NIAGARA	052868	.16	49	56	5.3	4.4	310	0	36	24	.1	39	410	353	7.5
31/27/33-0036	CHAS BEHRINGER	122	NIAGARA	052868	.16	72	32	--	--	362	0	15	4.0	--	.2	302	311	7.7
29/26/29-0037	E VROOMAN	105	NIAGARA	052968	.09	65	31	1.3	1.0	318	0	18	4.0	.2	1.8	274	290	7.6
29/24/36-0038	RONALD BARTH	61	NIAGARA	053068	.82	--	--	--	--	370	0	20	8.0	--	.2	318	326	7.4
27/26/03-0039	CITY STURGON BY	425	MULTIPLE	063066	.08	70	33	7.2	--	316	0	24	16	.3	1.8	374	312	7.5
				112961	.00	--	--	--	--	--	--	--	--	.2	--	--	--	8.2
27/24/36-0042	SO DOOR CO SCH	300	NIAGARA	053068	.16	--	--	--	1.6	354	0	6.4	2.5	.2	.2	328	--	7.8
27/26/07-0052	CITY STURGON BY	452	NIAGARA	110167	.15	64	28	3.5	--	298	0	12	6.5	.3	4.2	296	276	7.7
27/26/31-0053	PAT SCHMIDT	173	NIAGARA	052968	.10	--	--	--	--	141	0	12	1.5	--	.4	130	98	8.0
26/23/22-0054	EDWARD CHARLES	100	NIAGARA	053068	.25	--	--	--	--	396	0	18	5.0	--	2.8	332	350	7.4
34/30/31-0055	R ELLEFSEN	185	NIAGARA	052968	.81	51	39	.5	1.4	318	0	18	1.0	.2	.2	263	288	7.7
33/29/14-0056	ARNIE RICHTER	125	NIAGARA	052968	10.06	59	30	1.0	1.2	318	0	2.8	1.5	.1	.0	248	271	8.0
26/25/32-0057	EMIL PONTZLOFF	110	NIAGARA	061268	.09	20	18	--	--	160	0	13	8.0	--	.6	158	124	8.2
26/23/10-0076	FLOYD POTIER	90	NIAGARA	090772	.41	250	79	320	19	340	0	1000	230	1.1	1.8	2180	950	7.3
26/25/36-0090	E GRUENDEMAN	92	NIAGARA	090772	.39	52	34	4.3	1.5	305	0	19	2.1	.3	.6	264	270	7.7
26/26/23-0091	GOLDIE MUELLER	171	NIAGARA	090772	.56	47	31	7.8	1.9	276	0	23	7.5	.5	.6	244	250	7.7

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
DOOR COUNTY (CONTINUED)																		
27/23/25-0093	WALTER RUTZ	170	NIAGARA	110772	.19	320	100	620	30	100	0	2000	320	2.5	1.6	3770	1200	7.2
27/24/03-0097	SNEIDERS TAVERN	90	NIAGARA	090772	.69	200	120	200	19	206	0	500	380	1.1	1.8	1460	790	8.2
27/24/05-0099	RUTH HAIFPAP	150	NIAGARA	090772	.14	270	52	94	20	294	0	760	18	1.5	1.7	1440	890	7.3
30/27/32-0106	WALLACE BITTORF	182	NIAGARA	090872	.05	68	24	.8	1.1	276	0	22	3.6	.2	12	264	270	8.0
27/26/25-0114	NEIL DEBAKER	172	NIAGARA	090772	.06	60	27	3.0	2.1	316	0	6.2	1.8	.3	.5	240	260	7.5
29/27/14-0128	A LOGERQUIST	150	NIAGARA	090872	3.83	66	25	1.0	2.4	316	0	6.0	.9	.1	.0	250	270	7.5
30/28/06-0151	VERNA MCMULLEN	150	NIAGARA	090872	.05	60	30	6.7	2.0	300	0	16	16	.1	4.1	273	280	7.4
28/27/30-0187	RAY PAUL	135	NIAGARA	090872	.09	54	28	5.0	1.7	288	0	14	3.6	.3	.7	250	250	7.7
28/27/31-0188	TED WESTER	90	NIAGARA	111072	.08	58	32	1.5	1.2	304	0	17	2.1	.1	7.5	288	280	8.1
31/28/02-0212	HAMMOND	137	NIAGARA	090372	.06	64	26	1.3	1.5	286	0	22	3.0	.0	1.5	264	260	8.0
32/28/25-0244	GLEN ERICKSON	160	NIAGARA	090872	.06	70	32	2.0	1.5	332	0	18	7.5	.0	8.3	276	310	8.0
DOUGLAS COUNTY																		
43/11/04-0003	CAMP GORDON	77	GLACIAL	080962	.08	6.7	4.4	--	--	44	0	--	.0	.0	--	84	35	7.9
49/14/14-0004	NORTHERN BREW C	600	PRECAMB.	072154	--	--	--	--	--	76	0	70	693	--	--	1560	410	7.6
49/14/15-0005	RUSSELL CREAMRY	611	PRECAMB.	031572	.30	41	9.2	130	5.8	76	0	76	200	1.0	.4	530	140	7.8
				072569	.12	38	14	124	3.4	78	0	76	204	1.0	.4	537	153	8.1
				051468	.05	36	14	126	3.2	76	0	78	198	1.0	.4	523	148	8.1
				102054	.04	40	15	125	3.9	76	0	100	202	.9	--	548	162	7.9
				072954	--	--	--	--	--	76	0	68	230	.9	--	596	165	--
47/10/23-0006	WIS CONS DEPT	150	GLACIAL	072154	--	--	--	--	--	102	0	2.5	2.5	.3	--	100	55	8.3
48/11/23-0007	CORNER SCHOOL	400	---	072254	--	--	--	--	--	129	0	42	673	.4	--	1590	465	7.8
47/12/21-0008	MID RIVER SANIT	426	PRECAMB.	031572	.23	5.6	.9	72	.6	162	18	5.8	3.0	.3	.1	202	18	8.9
				061670	.25	5.0	.9	67	--	--	--	4.5	2.5	.2	.3	226	16	8.9
				072569	.17	4.2	.3	76	.3	170	20	7.6	2.0	.2	.0	229	12	9.0
				051468	.09	3.5	.4	80	.3	169	24	7.2	2.0	.3	.1	250	10	9.1
				042667	.30	--	--	--	--	157	17	--	--	--	--	--	20	8.6

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
DOUGLAS COUNTY (CONTINUED)																		
				042667	.04	6.8	2.1	--	--	172	23	.0	5.2	--	--	232	26	8.9
				021863	.10	5.0	.9	--	--	193	23	5.0	1.0	.2	.2	228	16	8.9
49/14/10-0020	BUR NORTHERN RR	550	GLACIAL	092970	.15	16	4.3	59	1.7	86	2	42	46	1.6	.0	227	58	8.3
48/10/00-0028	FRED HERTZAG	203	PRECAMB.	031572	31.34	240	130	78	11	755	0	640	10	.1	.8	1550	1100	7.5
				092970	7.91	199	157	66	1.9	745	0	622	9.0	.3	.8	1570	1140	7.2
49/10/25-0031	NEIL THOMFORD	145	PRECAMB.	092970	1.01	35	16	10	3.6	194	0	16	1.0	.3	.1	179	154	7.9
47/10/02-0038	LAWRENCE HOVICK	150	GLACIAL	093070	.09	11	3.7	30	1.9	92	6	10	10	.3	.0	121	42	8.4
48/15/12-0052	VILLAGE OLIVER	266	---	071366	.06	13	12	45	12	127	0	11	55	1.0	1.8	208	83	8.0
				082059	.10	19	7.8	48	3.2	112	7	12	51	1.0	--	218	74	8.3
47/15/06-0068	CHARLES TOBIN	270	GLACIAL	092470	.13	23	6.8	41	2.2	134	2	22	26	.7	.6	196	86	8.3
46/15/26-0101	ARTHUR SMITH	103	PRECAMB.	092470	.40	41	18	14	1.7	220	0	18	3.0	.1	.1	214	176	7.4
46/15/03-0105	ALLEN JENNINGS	93	PRECAMB.	092470	.13	28	8.4	3.1	1.0	108	4	13	1.0	.0	7.8	130	104	8.4
48/13/00-0133	CLARA B OLSON	198	PRECAMB.	092870	.33	26	9.5	64	6.9	108	0	58	69	.5	.1	290	104	8.1
48/11/00-0146	C V PETERSON	195	PRECAMB.	092970	2.30	92	36	26	8.6	342	0	160	5.0	.2	.9	508	378	7.5
47/11/01-0151	ALVIN SWANSON	91	PRECAMB.	093070	.12	21	13	12	2.3	154	0	2.8	1.0	.3	.2	140	106	8.0
47/12/20-0181	O PETTINGILL PH	72	GLACIAL	093070	.12	20	8.8	14	2.0	139	0	5.0	1.5	.2	.3	139	86	8.1
47/11/26-0213	DON HILDEBRANDT	148	PRECAMB.	093070	.41	30	10	29	1.9	214	0	2.8	2.0	1.0	.1	196	116	7.5
46/10/13-0223	RADIO STA WHSA	278	GLACIAL	093070	.12	20	4.8	2.9	.8	88	0	2.8	.5	.1	.5	100	70	8.0
46/10/18-0227	ART KHALAR	197	GLACIAL	093070	.60	37	7.7	2.7	.9	153	0	4.4	1.0	.2	1.1	160	124	8.0
46/13/22-0243	EUGENE KRUSEL	94	GLACIAL	092870	.13	21	6.0	9.9	1.3	79	2	19	.0	.1	.1	106	77	8.3
45/12/11-0250	EVERY WEST	83	PRECAMB.	060469	.40	23	11	12	1.2	146	0	4.0	.5	.3	.4	134	103	8.1
45/11/18-0252	HOWARD STRAUSE	87	GLACIAL	060469	.49	24	7.0	--	--	108	0	6.4	1.0	--	1.4	103	89	7.8
44/12/00-0272	JOHN H TRAVSCHT	176	PRECAMB.	060469	.16	20	11	11	1.4	137	2	6.0	.5	.3	.2	122	95	8.4
46/14/12-0285	DENNIS CORBIN	95	PRECAMB.	032870	.14	23	7.2	17	.3	144	0	7.6	1.0	.1	.1	150	87	8.2
43/15/25-0297	CARL CARLSEN	32	PRECAMB.	060468	.85	32	13	46	1.2	217	0	17	28	.3	.2	271	134	7.9

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
DOUGLAS COUNTY (CONTINUED)																		
44/14/20-0300	MARTIN SEELEY	44	PRECAMB.	060468	.12	17	8.6	4.6	.4	90	0	10	4.5	.2	.3	108	78	6.9
45/14/18-0302	ROY W STAUPÉ	65	GLACIAL	092870	.27	43	19	7.9	2.2	172	0	30	19	.2	.3	246	185	8.0
45/14/06-0304	DANIEL NORKUNES	114	PRECAMB.	092870	.08	30	13	12	1.7	168	0	13	4.0	.3	.3	167	129	8.1
47/14/12-0317	JOHN OVERBY	128	PRECAMB.	061272	.55	12	11	180	2.4	505	0	19	16	.2	.6	511	75	8.2
				092870	1.14	14	13	167	2.2	475	15	24	13	.1	1.5	511	88	8.3
44/12/01-0327	STATE HWY COMM	148	GLACIAL	060469	.17	17	4.6	3.0	.4	69	4	4.4	2.5	.1	.0	67	62	8.6
43/13/26-0330	HILDE JACOBSEN	70	GLACIAL	060468	.68	10	4.3	--	--	46	0	5.6	3.0	--	5.6	66	42	7.2
43/10/04-0331	E W TESSMER	88	GLACIAL	060469	.22	15	5.6	--	--	62	0	6.8	2.0	--	11	86	60	7.9
48/13/25-0333	STATE HWY COMM	250	PRECAMB.	092870	.79	20	14	42	4.9	92	0	122	6.0	.4	.1	252	108	7.6
47/14/09-0334	CLYDE HOLSCLOW	180	PRECAMB.	031572	.24	63	14	53	1.8	152	0	190	9.0	.3	1.1	425	210	7.9
				092870	.25	58	19	51	8.3	148	0	193	9.0	.3	.1	426	223	7.8
46/14/12-0335	LAWRENCE YANKO	30	GLACIAL	092870	.18	25	7.0	3.0	.8	106	0	8.4	2.0	.0	.0	112	92	8.0
43/14/01-0336	BEN PARZYCK	145	GLACIAL	092970	.20	27	9.4	65	2.6	120	2	35	74	.6	1.0	286	106	8.3
47/14/27-0346	MANITOU FALLS	41	GLACIAL	071366	4.30	36	12	3.1	.0	159	0	12	.8	.2	1.8	136	139	8.0
				082658	.54	--	--	--	--	156	0	--	--	--	--	--	130	7.6
47/14/27-0347	NITOU FALLS NP	40	GLACIAL	071366	1.64	28	9.6	3.1	.0	124	0	7.0	.8	.2	1.8	202	110	7.9
				082658	1.72	--	--	--	--	144	0	--	--	--	--	--	116	8.0
48/13/09-0350	COUNTY HOSPITAL	306	PRECAMB.	061670	.21	32	8.8	58	--	98	0	46	88	.7	.0	305	113	7.5
				022663	.09	31	8.3	--	--	102	0	54	75	.6	.2	298	112	7.7
48/13/09-0351	COUNTY HOSPITAL	260	PRECAMB.	061670	.25	31	9.0	5.8	1.1	100	0	46	78	.8	.0	300	113	7.7
48/12/29-0352	AMNICON FALLS P	142	PRECAMB.	080136	--	864	.0	--	--	--	--	220	2940	--	--	--	2160	--
DUNN COUNTY																		
30/14/25-0001	FARMERS COOP CR	435	SANDSTONE	071865	.80	50	18	5.6	--	254	0	6.0	1.4	.1	2.0	222	199	7.6
28/13/26-0004	CITY MENOMONIE	367	SANDSTONE	050946	1.40	43	18	--	--	215	0	11	13	.1	--	276	168	7.2
28/13/26-0005	CITY MENOMONIE	390	SANDSTONE	050946	6.40	52	25	--	--	288	0	15	10	.1	--	324	214	7.4

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CC 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
DUNN COUNTY (CONTINUED)																		
28/13/26-0006	CTY MENOMONIE	394	SANDSTONE	080366	.70	34	15	3.7	--	176	0	8.0	4.8	.2	2.0	164	148	7.2
				032364	.56	--	--	--	--	--	--	--	--	--	--	--	--	--
				050946	.40	34	15	--	--	185	0	6.5	8.0	.2	--	178	132	7.0
28/13/23-0007	CITY MENOMONIE	394	SANDSTONE	080566	.72	49	21	7.6	--	232	0	14	12	.2	2.0	230	208	7.7
				032364	.50	--	--	--	--	--	--	--	--	--	--	--	--	--
31/12/06-0016	FROAGE KING IND	360	SANDSTONE	040268	3.05	--	--	--	--	194	0	28	3.0	--	.1	206	188	7.9
28/13/26-0018	CITY MENOMONIE	476	SANDSTONE	080366	.65	30	14	2.1	--	159	0	5.0	3.0	.3	2.0	140	132	7.2
				032364	.38	--	--	--	--	--	--	--	--	--	--	--	--	--
30/14/31-0036	HOWARD DAVIS	49	GLACIAL	052467	.06	--	--	--	--	252	0	12	3.0	--	3.0	230	230	8.1
30/14/35-0038	VIL BOYCEVILLE	160	SANDSTONE	071866	.06	51	22	1.3	--	255	0	16	1.1	.1	2.0	240	223	7.5
29/12/35-0041	TAINTER CHURCH	91	---	060172	.05	20	8.1	1.3	.6	71	0	8.2	4.0	.0	--	92	84	6.9
29/11/32-0043	J STALLMAN	86	SANDSTONE	061072	.04	19	2.3	2.8	4.5	19	0	17	10	.0	31	110	57	7.0
26/14/13-0052	RAYMD HOFFACKER	74	GLACIAL	052467	.20	--	--	--	--	236	0	8.4	3.0	--	23	238	215	7.8
28/14/07-0061	DENS HOOGENBOOM	239	SANDSTONE	102372	1.90	59	26	3.0	.1	280	0	6.4	3.9	.1	14	253	250	8.1
27/11/25-0077	ELTON BURCHELL	145	GLACIAL	052467	4.96	--	--	--	--	106	0	1.2	.5	--	10	121	85	7.0
29/11/16-0080	VIL OF COLFAX	233	SANDSTONE	071866	.06	8.0	1.7	1.2	--	27	0	4.0	.9	.4	2.0	42	27	6.6
26/11/23-0082	BERNARD BLESKE	121	SANDSTONE	051768	.55	43	21	9.1	1.4	214	0	16	14	--	.2	232	194	7.6
				050168	12.84	32	10	3.0	1.3	150	0	4.0	2.0	.1	.8	150	121	7.0
27/13/35-0090	EVERSON WELL CO	340	SANDSTONE	040672	2.89	47	18	8.3	1.6	216	0	17	12	.3	.0	220	190	7.5
				081369	4.07	47	17	8.9	1.7	202	0	17	13	.2	.7	224	187	7.5
				051768	.55	43	21	9.1	1.4	214	0	16	14	.3	.2	232	194	7.6
				082566	3.22	42	21	8.6	--	200	0	15	14	.2	2.0	224	191	8.0
				032047	2.00	44	17	--	--	215	0	17	20	.1	--	218	178	7.7
28/13/09-0101	WILLIAM LARSON	80	GLACIAL	052467	.19	--	--	--	--	216	0	14	4.0	--	18	215	200	7.9
30/13/36-0112	WHEELER WATER	286	SANDSTONE	072766	.18	23	9.5	6.0	--	105	0	13	1.0	.2	4.8	116	97	7.5
				021159	.04	22	12	--	--	123	0	14	.5	.1	--	128	114	7.4
28/11/20-0114	STATE HWY COMM	250	SANDSTONE	052672	.28	15	5.2	1.3	1.0	59	0	13	1.0	.6	.0	83	59	6.8
29/11/16-0117	COLFAX COOP CRY	305	SANDSTONE	050366	.12	--	--	--	--	--	0	--	--	--	--	--	22	6.1

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
DUNN COUNTY (CONTINUED)																		
28/12/15-0118	WIS HGHY COMM	41	GLACIAL	111072	.34	23	6.4	17	2.0	36	0	14	23	.1	64	189	84	6.4
				052672	.81	29	9.5	20	2.3	42	0	19	26	.1	76	272	110	7.2
				021164	2.30	--	--	--	--	--	--	--	--	--	--	--	--	--
27/11/35-0119	GERHARD HOLTE	20	GLACIAL	052467	.15	--	--	--	--	50	0	19	20	--	32	140	90	6.7
28/12/20-0120	YOUNGS POULTRY	220	GLACIAL	052467	2.89	--	--	--	--	156	0	8.4	2.0	--	.5	136	130	7.8
29/12/25-0121	YOUNGS POULTRY	145	GLACIAL	080772	.49	27	11	2.4	1.5	114	0	7.4	9.0	.1	13	130	110	7.6
29/12/05-0126	ELMER STENE	87	GLACIAL	060872	.03	15	3.8	1.6	1.0	46	0	8.6	3.0	.0	7.4	68	53	6.8
30/13/20-0128	WALE HARRISON	93	GLACIAL	060372	.50	48	26	1.8	.4	256	0	10	5.0	.2	5.2	233	230	7.9
				052572	.03	17	5.8	2.5	1.2	27	0	11	10	.1	33	141	66	6.7
31/11/13-0129	SAND CREEK SCH	150	SANDSTONE	040268	--	--	--	--	--	62	0	9.2	1.0	--	.1	83	52	7.3
28/11/27-0130	VIL ELK MOUND	122	SANDSTONE	050168	1.62	--	--	--	--	120	0	60	22	--	4.7	268	174	6.9
28/12/15-0133	DUNN CO HOSP	170	SANDSTONE	061462	.67	32	15	--	--	161	0	23	.0	.1	--	148	140	7.6
26/14/36-0136	LEO BUHLMAN	242	SANDSTONE	050169	.31	--	--	--	--	292	0	12	6.0	--	.7	264	260	7.7
26/11/23-0138	ROCK CREEK CORP	114	GLACIAL	050168	2.36	--	--	--	--	117	0	1.2	1.0	--	.2	127	86	7.9
26/11/22-0139	ORIE DAY	93	SANDSTONE	050168	4.43	21	4.9	4.5	1.2	62	0	12	8.0	.2	18	120	72	6.5
26/11/23-0145	MARSHALL HUFTTEL	164	SANDSTONE	040268	3.05	--	--	--	--	194	0	28	3.0	--	.1	206	188	7.9
26/11/18-0160	ORVIL SCREEDEN	39	GLACIAL	052372	.09	28	8.2	6.1	2.1	38	0	14	7.0	.2	78	216	100	6.7
28/13/20-0162	ALBERT OBERLE	91	GLACIAL	052472	.71	13	71	2.6	1.4	370	0	24	4.5	.2	.0	330	320	7.7
28/12/25-0163	ROBERT LINK	100	SANDSTONE	052572	.05	13	.0	2.7	1.4	17	0	16	4.0	.4	3.9	65	32	6.4
28/12/05-0164	MARJ ROSSBACH	102	GLACIAL	060172	.31	45	14	2.6	.9	174	0	21	6.0	.0	.2	183	170	7.7
28/12/06-0165	DICK PRICE	105	SANDSTONE	060172	1.04	44	15	4.1	1.4	150	0	41	10	.0	1.2	212	170	7.1
29/12/24-0166	CHARLES DOBBS	167	---	060272	4.58	20	5.5	2.5	.3	86	0	.4	2.0	.0	4.1	97	72	6.6
31/12/11-0168	CHRISTOPHERSON	106	SANDSTONE	060872	.00	40	21	.9	.6	200	0	14	4.2	.2	2.3	187	190	7.5
31/13/26-0167	FRANK RARIG JR	54	GLACIAL	060372	.08	18	9.7	1.3	.5	61	0	21	9.0	.1	9.2	121	85	7.0

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
EAU CLAIRE COUNTY																		
27/09/05-0001 CITY EAU CLAIRE		95	GLACIAL	080366	.76	13	6.4	1.8	--	67	0	7.0	2.0	.2	2.0	106	59	7.4
				043057	.00	39	31	--	--	72	0	--	--	--	--	88	70	6.9
				102356	.00	40	28	--	--	68	0	--	--	--	--	--	68	6.9
				090456	.00	40	30	--	--	71	0	--	--	--	--	--	70	7.1
				022750	.00	15	5.3	--	--	71	0	3.0	2.5	.2	--	90	62	7.0
27/09/05-0002 CITY EAU CLAIRE		95	GLACIAL	080366	.07	13	7.8	2.1	--	59	0	8	2.8	.2	6.2	--	65	7.0
				043057	.00	34	22	--	--	51	0	--	--	--	--	70	56	6.6
				102356	.00	32	21	--	--	49	0	--	--	--	--	--	53	6.7
				090456	.00	32	22	--	--	44	0	--	--	--	--	--	54	6.9
				022750	.00	11	3.1	--	--	32	0	9.0	3.0	.1	--	94	44	6.7
27/09/05-0003 CITY EAU CLAIRE		90	GLACIAL	080366	.06	13	5.4	2.5	--	38	0	11	4.0	.1	14	--	55	6.7
				043057	.00	30	20	--	--	37	0	--	--	--	--	84	50	6.6
				102356	.00	30	20	--	--	34	0	--	--	--	--	--	50	6.5
				090456	.00	28	20	--	--	33	0	--	--	--	--	--	48	6.8
				022750	.00	11	4.0	--	--	34	0	7.0	4.0	--	--	92	46	6.6
25/06/04-0015 CITY OF AUGUSTA		80	GLACIAL	080266	4.16	17	--	17	--	41	0	22	30	.2	4.4	180	69	6.5
				051065	2.84	12	4.5	3.3	2.0	38	0	19	3.0	.2	3.4	98	48	6.2
26/08/01-0017 VILL FALL CREEK		117	SANDSTONE	080266	.06	34	14	3.0	--	144	--	10	3.7	.2	19	200	146	7.1
				051065	.07	34	16	2.7	.5	146	0	9.0	4.0	.2	18	188	148	6.5
				062160	.04	36	14	--	--	161	0	5.0	4.0	.0	--	178	152	6.7
27/09/23-0018 VILL OF ALTOONA		175	SANDSTONE	012158	.00	29	25	--	--	37	0	--	--	--	--	--	54	6.7
27/09/05-0026 CITY EAU CLAIRE		85	GLACIAL	080366	2.00	15	6.6	2.3	--	76	0	6	2.6	.2	2.5	124	65	7.2
				043057	1.90	64	42	--	--	115	0	--	--	--	--	120	106	6.8
				102356	2.00	46	30	--	--	74	0	--	--	--	--	--	76	6.7
				090456	2.62	54	38	--	--	93	0	--	--	--	--	--	92	7.0
				022750	1.50	21	7.1	--	--	92	0	3.5	4.0	.1	--	126	84	7.0
25/06/04-0031 CITY OF AUGUSTA		99	SANDSTONE	061446	3.00	16	4.6	--	--	--	--	41	8.5	.2	--	110	67	5.8
27/09/05-0036 CITY EAU CLAIRE		84	GLACIAL	080366	1.47	20	7.9	2.2	--	90	0	6	2.6	.2	5.7	132	83	6.9
				043057	.98	28	16	--	--	46	0	--	--	--	--	130	44	6.7
				102356	2.30	42	28	--	--	77	0	--	--	--	--	--	70	6.9
				090456	.42	34	24	--	--	49	0	--	--	--	--	--	58	7.0
25/06/04-0056 CITY OF AUGUSTA		80	GLACIAL	051065	5.76	23	6.1	53	3.5	29	0	27	113	.2	.7	304	82	5.9
				040863	10.50	--	--	--	--	--	--	--	--	--	--	--	102	6.6
				062160	7.70	23	6.9	--	--	22	0	32	49	.1	--	182	80	6.0
27/09/23-0059 VILL OF ALTOONA		195	SANDSTONE	080266	.06	14	4.1	1.9	--	44	0	12	1.6	.2	11	90	52	7.0

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
EAU CLAIRE COUNTY (CONTINUED)																		
				051558	.00	36	26	--	--	51	0	--	--	--	--	--	62	6.7
				051458	.00	36	26	--	--	51	0	--	--	--	--	--	62	6.8
				051358	.64	38	26	--	--	51	0	--	--	--	--	--	64	6.9
27/09/19-0060	CITY EAU CLAIRE	101	GLACIAL	090158	6.80	40	25	--	--	59	0	--	--	--	--	--	65	6.9
27/09/32-0061	CORYDON PARK AD	164	GLACIAL	080366	4.36	18	7.7	2.6	--	96	0	5.5	1.1	.2	2.2	110	77	7.3
				120963	4.56	20	7.2	--	--	81	0	6.0	.0	.1	4.3	110	80	7.1
27/09/05-0063	CITY EAU CLAIRE	95	GLACIAL	080366	.63	20	8.9	2.1	--	90	0	7	3.1	.2	4.4	136	87	7.2
25/06/04-0065	CITY OF AUGUSTA	98	MULTIPLE	080266	.55	10	3.8	2.1	--	35	0	10	1.0	.2	2.0	82	41	6.4
				051065	8.55	8.8	--	1.8	1.1	39	0	11	.0	.2	.5	84	38	6.3
				011163	.35	--	--	--	--	--	--	--	--	--	--	--	52	6.4
				011163	.28	--	--	--	--	--	--	--	--	--	--	--	40	6.3
				011163	.28	--	--	--	--	--	--	--	--	--	--	--	44	6.3
25/06/09-0066	CITY OF AUGUSTA	161	SANDSTONE	080266	.06	6.0	3.1	2.3	--	26	0	7	.5	.2	3.1	--	28	6.3
				051065	.07	5.9	--	2.1	1.3	43	0	4.0	.0	.1	3.2	--	--	6.1
				040963	.62	--	--	--	--	39	0	--	--	--	--	--	42	6.5
				040863	.62	--	--	--	--	37	0	--	--	--	--	--	40	6.7
				040863	.80	--	--	--	--	37	0	--	--	--	--	--	40	6.5
27/09/27-0073	WASH HTS S DIST	151	SANDSTONE	080366	.06	13	4.0	3.1	--	33	0	12	4.0	.1	14	90	49	6.7
				022866	.22	11	5.8	2.1	.8	35	0	10	.0	.2	11	88	52	6.6
27/09/34-0074	WASH HTS S DIST	230	SANDSTONE	080366	.45	8.0	2.4	1.7	--	21	0	9.0	1.1	.2	11	60	30	6.5
				022866	3.74	5.5	2.4	.9	1.1	13	0	9.0	.0	.1	2.4	--	24	6.7
26/07/06-0076	VILL FALL CREEK	100	SANDSTONE	080266	.06	10	3.4	2.3	--	33	0	5.0	1.6	.2	6.6	74	39	6.5
27/09/23-0078	VILL OF ALTOONA	188	SANDSTONE	120167	.08	13	6.3	2.6	--	46	0	7.5	3.0	.2	14	104	60	6.8
26/09/33-0090	VIAN HAZEN	46	GLACIAL	060272	7.13	8.7	3.2	2.5	.5	18	0	19	3.0	.0	.2	58	34	6.8
27/09/05-0101	CITY EAU CLAIRE	98	GLACIAL	080366	4.80	17	7.1	2.0	--	78	0	7.0	2.3	.2	2.0	128	72	7.3
				043057	2.54	60	42	--	--	110	0	--	--	--	--	128	102	6.8
				102356	3.10	56	36	--	--	97	0	--	--	--	--	--	92	6.9
				090456	2.90	59	43	--	--	107	0	--	--	--	--	--	102	7.1
				022750	1.80	--	--	--	--	117	0	--	--	--	--	--	95	--
27/09/05-0102	CITY EAU CLAIRE	95	GLACIAL	080366	7.18	18	6.5	1.9	--	80	0	7.0	2.7	.2	3.5	134	72	7.0
				043057	3.14	54	36	--	--	94	0	--	--	.7	--	284	90	6.8
				102356	7.70	48	40	--	--	87	0	--	--	--	--	--	86	7.1
				090456	6.70	48	36	--	--	81	0	--	--	--	--	--	84	7.2

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
EAU CLAIRE COUNTY (CONTINUED)																		
				022850	4.70	--	--	--	--	161	0	--	--	--	--	--	132	--
27/09/05-0103	CITY EAU CLAIRE	89	GLACIAL	080366	.79	15	5.4	2.5	--	43	0	12	4.0	.1	17	132	60	6.7
				043057	.00	34	24	--	--	71	0	--	--	--	--	86	--	6.5
				102356	1.10	36	24	--	--	34	0	--	--	--	--	--	60	6.7
				090456	1.02	34	20	--	--	28	0	--	--	--	--	--	54	6.9
				022750	.80	--	--	--	--	70	0	--	--	--	--	--	86	--
27/09/05-0104	CITY EAU CLAIRE	85	GLACIAL	080366	8.94	23	8.3	2.1	--	112	0	4	2.2	.2	2.0	160	92	7.0
				043057	6.15	54	46	--	--	110	0	--	--	--	--	228	100	6.8
				102356	10.00	68	56	--	--	137	0	--	--	--	--	--	124	6.7
				090456	7.80	56	44	--	--	105	0	--	--	--	--	--	100	7.0
				022850	4.90	--	--	--	--	146	0	--	--	--	--	--	126	--
27/09/05-0105	CITY EAU CLAIRE	96	GLACIAL	080366	3.74	22	10	1.8	--	115	0	4	2.2	.2	2.0	170	97	6.9
				043057	1.98	52	34	--	--	83	0	--	--	--	--	124	86	6.8
				102356	2.20	42	28	--	--	76	0	--	--	--	--	--	70	6.9
				090456	1.82	48	34	--	--	78	0	--	--	--	--	--	82	7.1
				022750	1.50	--	--	--	--	129	0	--	--	--	--	--	114	--
27/09/05-0107	CITY EAU CLAIRE	94	GLACIAL	080366	2.09	13	6.1	1.9	--	63	0	8	2.4	.3	2.0	58	58	7.1
				043057	.28	43	31	--	--	85	0	--	--	--	--	94	74	6.8
				102356	.92	58	34	--	--	98	0	--	--	--	--	--	92	6.9
				090456	.76	50	32	--	--	85	0	--	--	--	--	--	82	7.1
				022750	.00	--	--	--	--	85	0	--	--	--	--	--	76	--
27/09/05-0108	CITY EAU CLAIRE	90	GLACIAL	080366	.35	15	6.6	1.8	--	67	0	7	2.2	.3	2.0	106	65	7.4
				043057	.00	40	27	--	--	71	0	--	--	--	--	86	67	--
				102356	.00	40	26	--	--	68	0	--	--	--	--	--	66	6.7
				090456	.00	40	26	--	--	68	0	--	--	--	--	--	66	7.0
				022750	.00	--	--	--	--	60	0	--	--	--	--	--	54	--
17/09/05-0112	CITY EAU CLAIRE	98	GLACIAL	031968	.34	14	8.0	--	--	76	0	3.5	2.5	.2	.3	94	68	6.9
25/05/33-0116	WILLIAM MCBRIDE	100	SANDSTONE	043068	.13	--	--	--	--	10	0	21	11	--	12	96	27	5.8
25/10/22-0122	RAY KRUGER	75	SANDSTONE	050168	.04	--	--	--	--	91	0	16	6.0	--	26	156	108	7.2
26/09/15-0143	BERNARD KYES	145	SANDSTONE	052572	1.98	16	5.6	2.0	1.4	75	0	6.4	1.5	.5	.3	83	63	6.8
27/08/25-0144	EDWARD HUNT	50	SANDSTONE	053172	1.53	8.5	3.8	2.1	1.5	14	0	17	8.2	.0	2.4	57	36	5.8
26/08/07-0146	ED ZIMMERMAN	89	GLACIAL	061072	.02	13	5.6	1.8	.7	68	0	4.2	.0	.3	1.8	78	50	7.1

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
FLORENCE COUNTY																		
40/18/21-0002 CITY FLORENCE		152	GLACIAL	062266	.97	79	22	2.7	--	180	0	32	2.0	.2	2.1	204	184	7.5
				032465	1.26	37	22	--	--	191	0	32	2.0	.2	--	204	184	7.7
				100754	.46	37	19	--	--	173	0	28	3.5	.1	--	202	163	7.7
40/18/26-0007 COMMONWEALTH	50	PRECAMB.	062266	.39	65	33	2.4	--	--	240	--	85	13	.2	2.1	380	301	7.3
			011661	.94	68	4.5	--	--	269	--	87	2.5	.0	--	376	326	7.5	
39/17/03-0012 BILL WOODS		86	---	101866	--	--	--	--	--	203	0	24	2.0	--	.0	183	180	7.5
40/15/29-0014 NORMAN COLE		35	---	101866	--	--	--	--	--	206	0	11	8.0	.2	--	174	174	7.4
39/15/01-0015 US FOREST SERV		42	GLACIAL	050367	1.96	37	22	1.7	.6	220	0	7.6	.8	.2	.3	179	183	7.5
38/16/15-0018 U S FOREST SER		94	GLACIAL	101866	--	--	--	--	--	102	0	7.4	2.0	--	.1	81	80	7.5
39/19/02-0020 HOLLYWOOD CLUB	150	PRECAMB.	061470	1.18	58	5.4	117	5.6	256	0	39	100	.1	34	478	167	7.2	
			071369	2.12	72	7.3	100	6.1	294	0	30	108	.1	33	506	210	7.2	
			050769	5.00	79	9.3	211	9.7	425	0	29	250	.1	14	818	235	7.4	
40/18/31-0021 US FOREST SERV		177	GLACIAL	050367	.22	30	14	2.1	1.1	128	0	30	.8	.3	.0	151	133	8.0
39/16/24-0022 E C NICHOLS		52	GLACIAL	101866	--	--	--	--	--	194	0	9.0	4.0	--	.5	173	162	7.5
38/16/24-0023 RUDY RAUTMAN		115	GLACIAL	101866	--	--	--	--	--	208	0	13	3.0	--	5.9	178	176	7.5
38/18/03-0035 TOM LAWLINEN		153	GLACIAL	101866	--	--	--	--	--	404	0	149	4.0	--	--	511	432	7.5
40/18/36-0036 TOIVO LANTINEN		219	GLACIAL	101866	--	--	--	--	--	246	0	26	3.0	--	.1	229	212	8.0
40/18/28-0085 COMMONWEALTH	27	---	062266	.06	66	31	17	--	--	260	0	70	16	.2	16	466	295	7.4
			100754	.00	69	35	--	--	--	--	82	24	.1	--	450	324	7.4	
FOND DU LAC COUNTY																		
15/17/10-0004 CITY FOND D LAC		480	---	012945	.00	131	65	--	--	232	0	180	243	.4	--	866	595	7.8
15/17/10-0005 CITY FOND D LAC		650	DOL-SS	012945	--	87	36	--	--	200	0	135	92	.4	--	528	415	8.0
15/17/11-0010 CITY FOND D LAC	595	SANDSTONE	041162	.29	59	33	--	--	--	282	0	72	20	.4	--	412	282	7.6
			022362	.07	56	31	--	--	276	0	--	11	--	.0	--	274	7.8	
14/15/32-0014 CITY OF WAUPUN	965	SANDSTONE	082560	.30	66	29	--	--	--	337	0	32	5.0	.1	--	322	296	7.5
			042955	1.00	71	32	2.5	2.0	366	0	16	3.5	.0	.0	336	312	7.6	

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
FOND DU LAC COUNTY (CONTINUED)																		
				050845	1.10	65	27	--	--	343	0	22	5.6	.2	--	306	305	7.7
16/14/21-0015 WIS POWER LITE		385	SANDSTONE	071866	1.05	75	32	3.2	--	353	0	31	2.9	.2	.4	338	320	7.9
				090755	1.60	71	35	26	2.2	354	0	24	4.0	.1	--	330	310	7.6
				051145	1.20	59	31	--	--	344	0	35	10	.1	--	324	340	7.6
				010130	1.60	--	--	--	--	332	0	37	12	--	--	360	365	--
17/19/30-0019 JOHN STEFFIN		695	DOL-SS	100555	2.80	149	28	136	9.8	222	0	280	190	.7	--	1062	496	7.5
16/17/33-0021 WISC CENT R R		360	DOL-SS	090101	--	68	28	30	--	262	0	99	34	--	--	402	285	--
15/14/35-0022 VIL OF BRANDON		883	MULTIPLE	071866	1.53	72	33	4.0	--	351	0	28	8.5	.2	1.8	350	318	7.7
				090855	2.20	70	33	3.0	3.2	356	0	18	3.0	.2	--	330	310	7.4
				042545	1.00	73	33	--	--	388	0	19	3.0	.1	--	330	325	7.2
14/15/32-0023 CITY WAUPUN		755	---	082560	1.00	69	29	3.5	--	368	0	21	2.0	.0	--	326	307	7.4
15/17/13-0024 CITY FOND D LAC		825	SANDSTONE	071266	.52	120	34	37	--	238	0	210	79	.6	.4	774	441	7.8
				092354	.00	133	37	40	--	222	0	250	104	.5	--	890	508	7.8
17/19/11-0025 KETTLE H ST FOR		172	---	061568	.05	--	--	--	--	286	0	70	3.0	--	.9	354	306	7.6
				111055	.00	1	17	17	.0	273	0	70	1.5	.1	--	364	67	7.6
15/18/6A-0027 STATE OF WISCON		445	DOL-SS	060865	.36	133	37	62	9.5	231	0	270	104	1.0	.0	844	488	7.4
				042346	.00	113	33	--	--	204	0	255	112	.6	--	712	410	7.8
15/18/05-0028 STATE OF WISCON		820	SANDSTONE	121865	.24	85	39	164	25	447	0	230	60	1.0	.1	812	372	7.3
				100555	--	111	34	50	4.8	202	0	213	107	.7	--	782	431	7.3
15/13/03-0029 MARY TREELEVEN		920	MULTIPLE	071266	.35	79	24	40	--	168	0	200	40	.6	.4	502	296	7.7
				100555	.30	72	21	40	4.0	173	0	158	44	.5	--	498	280	7.7
				042750	.50	77	22	--	--	205	0	250	52	--	--	664	305	7.5
15/17/10-0031 CITY FOND D LAC		795	SANDSTONE	071266	.25	79	39	--	--	227	0	180	65	.5	.4	686	360	7.3
				051265	.28	79	39	35	4.8	227	0	160	65	.5	.1	564	360	7.3
				092255	.30	64	37	18	2.0	312	0	96	15	.3	--	462	336	7.8
15/17/15-0041 W ICE & STORAGE		200	SANDSTONE	010456	.50	65	31	40	4.0	239	0	130	37	.4	--	494	318	7.6
15/17/11-0042 ST AGNES HOSPTL		501	SANDSTONE	102572	.16	53	48	18	2.9	308	0	99	7.1	.3	.4	406	330	8.0
16/17/32-0043 CITY N FOND LAC		655	SANDSTONE	071966	.42	75	31	16	--	299	0	59	39	.5	.4	476	318	7.5
				072463	.42	82	30	--	--	300	0	56	30	.4	.1	434	328	7.4
				111055	.30	77	31	10	2.4	296	0	51	44	.4	--	410	328	7.6
14/18/03-0045 MAMMOTH SPRING		650	MULTIPLE	090855	.00	78	39	23	.0	356	0	37	6.5	.1	--	370	346	7.4

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
FOND DU LAC COUNTY (CONTINUED)																		
14/16/14-0046	MAMMOTH SPRINGS	630	SANDSTONE	090155	.70	58	31	52	8.2	272	0	120	24	.5	--	532	307	7.8
14/16/11-0047	VIL OF OAKFIELD	441	DOL-SS	072566 010131	.21 .40	61 --	31 --	67 --	-- --	298 268	0 0	150 102	28 33	.4 --	1.8 --	520 409	282 232	7.9 --
16/14/22-0050	GREEN GIANT	495	SANDSTONE	090255 101547	2.50 40.08	76 94	38 35	52 --	4.2 --	351 232	0 0	27 125	98 68	.1 .5	-- --	532 602	342 370	7.4 6.8
16/14/25-0051	WIS POWER LIGHT	400	DOL-SS	092355	.20	71	33	1.0	1.9	329	0	49	5.0	.1	1.0	372	332	7.3
16/15/35-0054	GREEN GIANT CAN	442	MULTIPLE	092155 090255	2.40 .00	78 79	39 41	4.0 5.0	2.0 2.6	397 392	0 0	39 31	9.5 10	.0 .1	-- --	414 414	367 360	7.3 7.6
14/14/32-0057	ALTO CREAMERY	250	DOL-SS	092354	.40	72	36	--	--	366	0	52	9.0	.0	--	398	354	7.4
15/14/75-0058	AMERICAN STORES	632	SANDSTONE	093066 090955	2.65 2.00	74 77	36 38	1.8 27	-- 4.0	388 366	0 0	25 35	1.0 2.0	.1 .0	1.8 --	348 358	334 338	7.6 7.3
15/17/36-0069	J P FRAME	474	---	032054	.00	77	12	45	--	263	0	4.5	7.0	.6	--	256	127	8.1
15/16/10-0076	WOODHULL SCHOOL	144	DOL-SS	010456	1.60	41	34	5.0	1.9	324	0	12	3.0	.1	--	292	274	7.9
17/19/35-0089	B E EBERTS	97	NIAGARA	100555	4.40	36	58	5.0	4.0	441	0	39	60	.1	--	622	470	7.6
14/15/05-0100	SCHOOL DIST 11	190	---	010456	.00	82	35	7.0	.0	375	0	58	3.0	.2	--	414	377	7.4
15/17/21-0110	FL CO HOSPITAL	500	---	042445	.40	38	21	--	--	200	0	110	98	.8	--	514	280	7.3
15/18/15-0115	FOND LAC SCHOOL	60	---	041155	.00	30	40	2.0	--	361	0	62	5.5	.1	2.1	416	375	7.4
16/14/22-0117	GREEN GIANT	165	---	090255	2.00	101	52	153	3.6	420	0	54	290	.0	--	956	483	7.4
13/19/18-0125	CAMPBELLSPORT	1234	MULTIPLE	062366 111064 110459 021953 090955 042645	.66 .85 -- .52 1.00 .70	113 106 -- 118 110 110	33 33 -- 33 33 30	14 -- -- 21 24 --	-- -- -- 5.2 6.2 --	355 355 -- 315 346 337	0 0 -- 0 0 0	140 140 -- 194 116 150	5.0 5.0 -- 24 7.0 14	1.6 1.6 -- .8 1.1 1.0	1.8 .5 -- .8 -- --	546 546 -- 610 526 538	402 400 -- 430 410 398	7.8 7.8 -- 7.4 7.3 7.6
16/19/25-0130	CAPUCHIN FATHER	800	---	092254	.00	55	36	9.0	--	370	0	26	10	.1	--	362	326	7.6
14/14/30-0136	SCHOOL DIST 7	137	DOL-SS	010456	.70	71	31	7.0	2.4	319	0	53	6.0	.2	--	370	328	7.7
15/19/13-0138	ELDER GROVE SCH	100	---	100555	1.10	56	33	2.0	1.8	317	0	23	7.0	.1	--	366	312	7.6
14/19/02-0149	ARMSTRONG PARSH	139	NIACARA	111055	1.40	54	32	4.0	1.0	361	0	.4	1.0	.1	--	300	276	7.6

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
FOND DU LAC COUNTY (CONTINUED)																		
15/15/12-0164	EDWIN BERGIN	70	DOL-SS	111C55	.10	23	16	41	.0	197	0	42	5.5	.2	--	260	133	8.2
15/15/04-0169	DALE B CROSSMAN	328	SANDSTONE	111C55	1.10	75	36	5.0	2.6	402	0	12	2.5	.2	--	346	344	7.8
15/15/02-0176	VILL ROSENDALE	200	DOL-SS	092354	4.00	86	42	--	--	403	0	62	9.0	.2	--	--	394	7.4
13/19/32-0194	PAUL FLASCH	84	NIAGARA	092155	1.40	62	36	5.0	2.0	384	0	6.0	2.0	.1	--	326	316	7.5
14/17/20-0220	METHODIST CHURCH	594	DOL-SS	111C55	--	37	18	15	4.0	151	0	47	22	.4	--	256	172	8.0
14/15/07-0224	GERMAN DAVIDSON	221	DOL-SS	051667	.04	--	--	--	--	380	0	108	6.0	--	.6	495	425	7.5
14/17/02-0226	FRED SUPPLE	630	SANDSTONE	042855	.70	58	18	16	2.8	149	0	94	36	.4	.0	386	232	7.8
14/16/2-0229	MRS O V NEEB	86	DOL-SS	010456	.70	48	30	15	2.8	253	0	86	3.0	.4	--	384	272	7.8
15/16/35-0243	STATE OF WISCON	38	---	010456	.10	110	54	16	1.8	512	0	70	43	.1	--	634	540	7.4
13/19/33-0250	RICHARD THIEMER	102	---	051656	2.00	62	29	1.0	2.6	322	0	29	3.0	.1	--	322	312	7.4
15/19/04-0253	W AINSWORTH	435	DOL-SS	090955	--	183	34	78	10	154	0	390	129	.8	--	1060	599	7.2
15/14/22-0256	GREEN GIANT	--	---	120456	.00	73	36	5.0	1.5	328	0	43	15	.1	--	420	352	7.4
16/13/03-0257	JOHN ZAHN	--	---	100555	--	72	37	5.0	.0	334	0	33	7.5	.1	--	386	338	7.6
14/17/05-0269	JEFFERSON SCHOL	265	DOL-SS	111055	2.60	--	--	--	--	222	0	43	4.5	1.4	--	288	--	8.2
15/19/15-0283	ARTHER BOYKE	165	---	051156	.30	76	32	1.0	.0	357	0	50	4.0	.1	.0	376	350	7.4
15/13/30-0285	CLA DALDSCHMIDT	86	GLACIAL	042456	.10	28	32	14	.0	251	0	25	14	.1	--	274	228	7.9
15/18/14-0302	CITY FOND D LAC	210	DOL-SS	060856	.10	111	38	11	2.0	336	0	140	5.0	.1	--	592	446	7.4
				052956	.10	94	36	2.5	.0	336	0	85	4.0	.1	--	488	399	7.5
15/18/03-0303	CITY FOND D LAC	155	MULTIPLE	071056	.10	108	44	1.0	3.8	346	0	115	16	.2	--	642	467	7.6
13/13/19-0310	CITY CAMPBELPRT	875	MULTIPLE	062366	1.13	107	35	7.6	--	357	0	100	4.0	1.2	1.8	480	411	7.8
				111064	.69	94	35	--	--	357	0	100	4.0	1.2	1.1	480	383	7.8
				021858	.70	99	36	3.0	--	368	0	102	4.0	.9	--	488	439	7.4
14/15/32-0356	CITY OF WAUPUN	794	SANDSTONE	072166	.88	70	32	3.8	--	349	0	20	3.0	.2	1.8	322	308	7.7
				020664	1.44	--	--	--	--	339	0	--	--	.0	--	--	290	7.4
16/19/25-0357	ST CLOUD CONGRE	135	MULTIPLE	061468	.11	127	70	83	11	596	0	75	135	.1	15	967	606	7.2

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
FOND DU LAC COUNTY (CONTINUED)																		
16/19/20-0362 VILLA LORETTO		300	MULTIPLE	061463	.38	--	--	--	--	246	0	48	26	--	.4	286	234	7.8
15/19/07-0363 TOLIBIA CHEESE		310	MULTIPLE	061563	1.03	--	--	--	--	428	0	14	18	--	.9	370	378	7.7
16/19/02-0377 STEPHEN LEFEBER		255	GLACIAL	061463	5.38	--	--	--	--	400	0	2.0	2.0	--	.1	316	328	7.8
16/18/35-0378 BEN KLAPPERICH		193	NIAGARA	061463	.55	--	--	--	--	228	4	18	2.0	--	.4	208	204	8.4
14/19/34-0379 RED GATE PIG FM		113	NIAGARA	061563	.49	--	--	--	--	390	0	11	26	--	4.6	376	330	8.2
14/19/04-0380 GERALD OTTERY		249	NIAGARA	061563	1.85	--	--	--	--	402	0	4.3	3.0	--	.9	320	340	8.0
13/18/17-0381 RAYMOND THELEN		100	NIAGARA	061563	.07	--	--	--	--	352	0	38	31	--	55	478	384	8.2
14/15/32-0387 CITY OF WAUPUN		611	SANDSTONE	032045	2.40	59	34	--	--	373	0	20	10	.1	--	328	275	7.4
FOREST COUNTY																		
36/13/30-0005 CITY OF CRANDON		88	GLACIAL	091871	.33	42	20	6.5	--	193	0	10	19	.2	7.1	264	190	8.0
				090465	1.44	14	15	5.1	1.5	190	0	12	20	.1	7.4	222	184	7.2
				100654	.26	36	15	--	--	176	0	7.5	7.0	.1	--	188	160	7.6
				100746	.00	74	13	--	--	170	0	9.0	8.5	.1	--	172	158	7.8
37/12/10-0010 LITTLE PINE MTL		118	GLACIAL	090171	3.61	22	9.0	2.5	1.2	118	0	1.6	2.1	.1	1.0	113	92	7.0
40/12/34-0012 CAMP WHITE DEER		56	GLACIAL	101866	--	--	--	--	--	56	0	1.6	2.0	--	.1	38	39	7.2
39/13/30-0015 PINE RIVER CAMP		32	---	101866	--	--	--	--	--	146	0	8.4	1.0	--	.2	115	113	7.7
38/14/30-0016 PERBANKAUWEBERG		24	GLACIAL	101866	--	--	--	--	--	13	0	11	2.0	--	1.0	28	15	5.9
39/14/04-0021 HERB MELCHER		--	GLACIAL	101866	--	--	--	--	--	154	0	2.4	2.0	--	.2	105	114	7.4
39/14/17-0025 ABANDON SCHOOL		75	GLACIAL	101866	--	--	--	--	--	152	0	7.2	3.0	--	.8	122	123	7.6
40/13/27-0029 WINDSOR DAM CMP		--	GLACIAL	090267	.76	22	12	1.8	.5	124	0	8.4	.8	.2	.2	112	105	7.6
35/14/27-0065 ROUND LAKE RES		141	GLACIAL	092563	2.51	72	8.7	2.6	1.2	146	0	2.0	.0	.2	.9	151	116	7.3

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
GRANT COUNTY																		
05/05/21-0008	VIL BLOOMINGTON	860	---	062866	.06	57	26	1.8	--	270	0	14	.2	.3	1.8	246	251	8.1
				020360	.04	66	31	--	--	329	0	14	1.0	.1	--	292	288	7.6
				032745	.30	58	26	--	--	334	0	15	3.5	.1	--	278	280	7.3
02/01/21-0010	VILL CUBA CITY	1467	SANDSTONE	070766	.15	64	38	2.9	--	355	0	15	.8	.2	1.8	326	317	7.6
				071659	.05	63	40	--	--	371	0	19	1.0	.1	--	320	314	7.5
				052554	.10	62	36	--	--	364	0	14	1.5	.1	--	314	312	7.3
				092045	.10	--	--	--	--	373	0	--	--	--	--	--	--	7.3
				061345	1.60	71	32	--	--	361	0	8.5	11	--	--	344	300	7.1
				012345	.10	63	44	--	--	376	0	16	.5	.1	--	326	338	7.3
02/02/22-0011	VIL DICKEYVILLE	870	SANDSTONE	070666	.12	65	36	2.0	--	346	0	19	1.2	.2	1.8	334	313	7.6
				120555	.10	77	40	--	--	398	0	22	2.5	.1	--	356	356	7.3
06/02/19-0012	VILL FENNIMORE	985	SANDSTONE	062866	.30	65	30	2.4	--	296	0	24	1.8	.2	1.8	284	286	8.1
				010545	.10	64	31	--	--	331	0	26	7.0	.1	--	294	300	7.3
				010135	.40	--	--	--	--	315	0	23	6.0	--	.0	301	340	--
06/02/19-0013	VILL FENNIMORE	810	SANDSTONE	062866	.06	62	28	2.6	--	251	0	94	2.2	.2	1.4	358	284	7.3
				011051	3.20	62	30	--	--	299	0	36	3.0	.1	--	280	276	7.3
				052548	.00	81	35	--	--	359	--	51	15	.1	--	--	360	--
04/03/14-0014	GR CO HOSPITAL	1214	SANDSTONE	040362	.07	70	36	--	--	356	0	31	1.0	.0	2.6	328	324	7.3
05/03/34-0015	CITY LANCASTER	1444	SANDSTONE	072566	.06	68	27	1.5	--	318	0	27	1.0	.2	2.2	296	282	7.9
				101460	.09	--	--	--	--	--	--	--	--	--	--	--	300	--
				071559	.04	66	24	--	--	334	0	.5	1.0	--	--	280	270	7.4
				021053	.20	72	30	--	--	334	0	23	4.0	.1	--	302	298	7.2
				031848	.10	79	26	--	--	316	0	50	2.0	.1	--	326	300	7.4
05/01/11-0016	VIL LIVINGSTON	454	DOL-SS	052159	.20	62	36	--	--	351	0	20	1.5	.1	--	310	308	7.4
				010549	.20	68	34	--	--	373	0	17	2.0	.1	--	348	325	7.1
06/01/21-0018	VILL MONTFORT	777	SANDSTONE	010545	.00	105	60	--	--	376	0	195	22	.1	--	606	512	7.5
06/01/21-0019	VILL MONTFORT	432	SANDSTONE	063066	.06	79	32	2.6	--	339	0	54	3.6	.2	1.8	378	333	7.6
				110347	.00	72	34	--	--	355	0	35	4.0	.1	--	324	270	7.5
08/01/12-0020	VILL OF MUSCODA	650	SANDSTONE	091068	1.74	55	31	5.3	--	295	0	11	7.0	.2	1.8	280	268	7.6
				020260	8.00	56	34	--	--	310	0	11	11	.2	--	312	268	7.6
				120544	1.20	56	32	--	--	315	0	6.6	14	.1	--	282	275	7.1
03/01/15-0022	CITY PLATTEVILLE	1718	SANDSTONE	070666	.86	64	40	1.1	--	356	0	21	10	.2	1.8	334	325	7.3
				013063	.62	68	37	--	--	365	0	25	.0	.1	--	330	322	7.0
				121444	.40	66	38	--	--	377	0	24	3.0	.1	--	340	350	--

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
GRANT COUNTY (CONTINUED)																		
				010135	1.20	--	--	--	--	368	0	19	6.0	--	.0	339	325	--
03/01/15-0023 CITY PLATTEVILLE		927	SANDSTONE	070666	.33	73	35	2.0	--	362	0	17	.8	.2	1.8	324	327	7.4
				013063	.24	70	34	--	--	366	0	20	.0	.2	--	322	316	7.0
				010135	.70	--	--	--	--	366	0	11	4.0	--	.0	347	315	--
03/03/34-0024 VILL OF POTOMI		385	DOL-SS	091367	.28	67	37	1.0	--	332	0	20	.5	.3	.4	318	308	7.0
				042753	.00	65	39	--	--	376	0	13	3.0	.1	--	316	316	7.1
				012445	.30	69	34	--	--	371	0	16	5.5	.1	--	318	310	7.2
03/03/35-0027 VIL OF BOSCOBEL		715	SANDSTONE	072666	.27	56	37	6.0	--	321	0	26	11	.4	1.8	316	296	8.0
				093058	3.40	53	38	--	--	336	0	36	2.5	--	--	360	275	7.4
03/05/14-0028 WIEST BROS		280	DOL-SS	031170	.19	125	52	15	.8	438	0	35	36	.3	134	638	526	7.3
05/02/09-0031 STITZER SAN DIS		476	SANDSTONE	072566	1.03	91	26	2.0	--	318	0	72	2.7	.2	4.4	412	336	7.6
				040263	15.35	106	36	--	--	220	0	210	6.0	.3	1.3	602	412	6.6
				073054	2.70	92	26	--	--	312	0	92	3.0	.1	--	444	358	7.0
03/05/23-0032 VILL CASSVILLE		853	SANDSTONE	072566	.36	55	31	5.8	--	304	0	16	2.3	.2	1.8	270	266	7.9
				052362	.22	56	29	--	--	299	0	16	2.0	.1	.0	272	258	7.3
				042753	1.00	55	32	--	--	307	0	11	5.0	.2	--	268	252	7.3
05/05/04-0033 VIL PATCH GROVE		635	SANDSTONE	062866	.11	65	31	3.1	--	322	0	16	.3	.2	1.8	290	292	8.2
				121952	.70	69	37	--	--	362	0	17	4.9	.0	--	360	324	7.3
02/01/36-0034 VILL CUBA CITY		900	---	061345	1.60	71	32	--	--	361	0	8.5	11	.1	--	344	300	7.1
				010135	.10	--	--	--	--	346	0	52	19	--	3.1	420	420	--
05/05/12-0036 VILLAGE BAGLEY		275	SANDSTONE	062866	.06	67	30	2.2	--	337	0	15	1.3	.2	3.5	312	294	7.7
				071559	.04	60	30	--	--	334	0	18	2.0	.1	--	298	292	7.5
				040554	.00	65	29	--	--	329	0	14	2.0	.1	--	302	286	7.3
03/01/12-0037 VILL OF MUSCODA		125	GLACIAL	022060	.04	39	24	--	--	207	0	15.5	2.0	.1	--	212	198	7.9
				041857	.00	39	22	--	--	207	0	11	4.0	.1	--	206	192	7.8
03/02/11-0039 VILL BLUE RIVER		300	SANDSTONE	072666	.27	52	35	5.0	--	299	0	22	6.0	.2	8.8	270	274	8.0
				022260	.40	51	34	--	--	295	0	26	6.0	.1	--	290	268	7.7
				120556	.10	50	32	--	--	298	0	21	7.5	.1	--	268	262	7.6
01/01/25-0040 VIL HAZEL GREEN		1000	SANDSTONE	070666	.32	60	37	1.9	--	364	0	16	1.1	.2	1.8	342	321	7.5
				092658	1.20	70	45	--	--	406	0	16	1.5	.1	--	348	340	7.4
03/03/27-0043 VIL OF BOSCOBEL		700	SANDSTONE	072666	.54	75	44	63	--	298	0	84	127	.3	1.8	630	369	7.9
				070253	.20	59	36	--	--	317	0	37	42	1.2	--	372	306	7.3

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
GRANT COUNTY (CONTINUED)																		
				060445	.00	56	34	--	--	305	0	18	32	.1	--	348	280	7.5
03/03/34-0045 VILL OF POTOMI	1054	SANDSTONE	072566	.40	62	38	--	--	--	356	0	23	.9	.2	1.8	330	314	7.8
			093058	.40	62	40	--	--	--	359	0	24	1.5	.1	--	312	311	7.2
03/05/15-0046 WIS POWER LIGHT	91	GLACIAL	031170	.33	98	36	5.5	1.5	--	324	0	109	4.0	.2	15	467	393	7.6
06/04/25-0050 VILL MOUNT HOPE	957	SANDSTONE	062366	.06	71	70	1.8	--	--	322	0	20	3.0	.1	1.9	322	300	7.8
			112160	.24	74	74	--	--	--	355	0	48	.0	.0	--	352	328	7.3
05/01/27-0057 GENE KNUTSON	--	DOL-SS	092661	1.40	65	35	3.3	1.2	--	--	--	34	--	.4	.0	455	306	6.6
03/03/31-0058 PIQUETTS MINE 2	--	DOL-SS	092561	.06	141	70	9.3	2.3	--	--	--	287	--	.2	.0	1090	641	6.4
02/02/17-0059 H L BURNHAM	160	DOL-SS	092361	.16	69	38	3.1	1.2	--	--	--	22	--	.0	1.1	480	329	--
07/04/17-0064 WOODMAN SCHOOL	157	SANDSTONE	010865	.04	--	--	--	--	--	305	0	20	3.8	--	.2	260	272	7.6
01/02/03-0068 KIELER SAN DIST	930	SANDSTONE	102263	.34	74	34	--	--	--	366	0	10	.0	.0	--	320	326	7.4
			070163	.22	79	37	--	--	--	371	0	--	--	--	--	380	352	7.4
08/01/07-0080 MYRON RECOB	26	GLACIAL	122264	.14	--	--	--	--	--	58	0	15	10	--	34	122	96	8.0
02/02/22-0081 VIL DICKEYVILLE	902	SANDSTONE	012567	.18	69	40	3.1	--	--	372	0	12	1.5	.2	.9	334	336	7.1
08/01/37-0082 OAK C CHEESE FA	60	SANDSTONE	030359	--	120	120	--	--	--	264	0	--	9.0	--	--	--	740	7.9
05/03/10-0083 ERVIN HELMS	90	DOL-SS	040170	.07	54	23	2.7	.4	--	246	0	17	2.6	.1	7.5	250	229	7.7
09/01/04-0084	20	GLACIAL	122264	1.96	--	--	--	--	--	132	0	5.2	2.0	--	.4	126	110	7.6
03/05/25-0086 VILL CASSVILLE	90	GLACIAL	072566	.06	80	38	5.6	--	--	386	0	39	7.5	.2	2.4	406	358	7.8
			052363	.24	--	--	--	--	--	383	0	--	--	--	--	--	347	7.9
04/03/07-0087 CITY LANCASTER	1706	SANDSTONE	083067	.75	--	--	1.8	--	--	310	0	65	1.5	1.6	1.8	324	304	7.4
08/01/05-0090 GALE TAYLOR	28	GLACIAL	122264	.10	--	--	--	--	--	104	0	11	14	--	53	191	146	7.3
08/02/01-0091 ROY GODAGER	20	GLACIAL	122264	.25	--	--	--	--	--	37	2	6.0	2.0	--	5.4	60	40	8.6
07/03/31-0092 ERNEST GEBHARD	60	SANDSTONE	102170	.02	69	28	1.1	.8	--	330	0	18	2.0	.2	4.3	289	290	8.1
07/02/25-0093 MYRON FRYMILLER	365	DOL-SS	111870	.14	73	29	2.4	1.1	--	324	0	16	4.0	.3	14	293	300	7.9
06/05/25-0094 MAURICE ENKE	170	DOL-SS	102170	.06	77	34	2.7	.8	--	364	0	24	9.0	.5	10	349	330	8.2

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
GRANT COUNTY (CONTINUED)																		
07/01/13-0095	MARTIN HONER	96	SANDSTONE	102170	.10	60	27	1.6	1.7	292	0	16	8.0	.1	7.0	257	260	7.6
09/02/12-0097	JAMES BARTA	20	GLACIAL	122264	.31	--	--	--	--	224	0	17	4.0	--	3.3	209	197	7.8
03/05/20-0099	VILL CASSEVILLE	1102	---	010145	.30	98	72	--	--	304	0	103	9.0	.1	--	408	380	7.3
				010135	.20	--	--	--	--	305	0	69	9.0	--	.0	374	340	--
01/01/25-0099	VIL HAZEL GREEN	395	---	061345	--	--	--	--	--	464	0	--	--	--	--	--	790	7.0
				012345	.33	155	100	--	--	459	0	360	40	.2	--	968	800	7.0
				010135	.30	--	--	--	--	429	0	167	77	--	--	718	610	--
01/01/25-0100	VIL HAZEL GREEN	194	---	051345	3.85	211	99	--	--	527	0	510	80	.2	--	1360	940	6.9
				010135	2.20	--	--	--	--	422	0	136	63	--	--	671	560	--
03/01/03-0143	CITY PLATTEVILLE	965	SANDSTONE	091768	.39	65	39	3.9	--	356	0	16	4.0	.2	1.8	352	324	7.6
GREEN COUNTY																		
02/07/34-0005	CITY OF MONROE	1334	SANDSTONE	052265	.09	53	40	2.4	--	349	0	12	1.6	.2	1.8	314	315	7.4
				022045	.00	92	40	--	--	390	0	57	18	.1	--	414	425	7.6
02/07/34-0006	CITY OF MONROE	950	---	093067	.06	73	47	15	--	343	0	60	25	.3	14	484	375	7.7
				090543	.00	74	34	--	--	371	0	29	7.5	.1	--	354	340	7.9
				022045	.00	92	37	--	--	383	0	53	18	.1	--	426	375	7.9
02/07/34-0007	CITY OF MONROE	1030	---	093067	.06	31	49	17	--	354	0	63	27	.4	14	510	400	7.5
				011960	.04	95	46	--	--	395	0	62	18	.1	--	464	410	--
				022045	.00	53	72	--	--	366	0	16	8.9	.1	--	320	310	7.3
02/07/34-0008	CITY OF MONROE	1638	SANDSTONE	052265	.12	53	36	1.8	--	344	0	12	1.3	.2	1.8	312	299	7.5
				011960	.04	53	40	--	--	359	0	13	.5	.1	--	306	312	7.7
				012556	.10	56	38	--	--	356	0	7.5	1.0	.1	--	300	308	7.5
				020549	.00	57	75	--	--	354	0	14	3.5	.1	--	298	295	7.4
				022045	.20	52	73	--	--	349	0	12	4.2	.1	--	286	310	7.3
02/07/34-0009	CITY OF MONROE	1529	SANDSTONE	092355	.06	52	31	2.3	--	315	0	9.0	1.3	.2	1.8	270	276	7.6
				011960	.30	53	36	--	--	361	0	14	3.0	.1	--	320	314	7.6
				020155	.00	53	71	--	--	337	0	2.5	2.0	.1	--	274	280	7.3
02/07/25-0010	GN CC HOSPITAL	713	SANDSTONE	052262	.04	53	34	--	--	343	0	10	1.0	.0	2.1	--	288	7.2
04/07/25-0011	VILL NEW GLARUS	470	SANDSTONE	062065	.25	57	37	1.0	--	344	0	13	.7	.2	1.8	312	295	7.6
				100559	.65	53	40	--	--	356	0	14	1.0	.1	--	318	308	7.6

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
GREEN COUNTY (CONTINUED)																		
				122944	.40	56	36	--	--	351	0	14	4.2	.1	--	--	325	7.3
02/09/20-0012 CITY BRODHEAD		995 SANDSTONE		062166	.41	54	34	1.7	--	334	0	14	.6	.2	1.9	302	275	7.4
				031164	.56	56	38	--	--	342	0	12	.5	.0	.3	290	296	7.3
				082261	.64	--	--	--	--	--	--	--	--	--	--	--	294	7.6
				071647	.20	51	32	--	--	312	0	10	6.0	.1	--	280	260	7.5
				022145	.60	51	33	--	--	320	0	11	5.9	.1	--	--	280	7.4
01/05/04-0014 VILL BROWNTOWN		355 SANDSTONE		080366	.06	49	43	1.2	--	361	0	11	.9	.2	1.8	304	300	7.4
				051959	.04	46	46	--	--	367	0	12	1.0	.1	--	310	312	7.4
				022045	.10	49	42	--	--	373	0	10	5.6	.1	--	--	375	7.3
03/03/07-0015 VIL MONTICELLO		422 SANDSTONE		062266	1.43	57	36	1.1	--	337	0	14	.6	.2	1.9	306	293	7.4
				121263	.24	58	38	--	--	344	0	12	1.0	.0	.2	282	300	7.3
				022145	.20	58	36	--	--	356	0	14	6.0	.1	--	314	355	7.4
01/06/07-0016 THEDA MAU		140 DOL-SS		033170	.06	63	40	1.9	.9	380	0	14	.8	.1	.5	314	322	7.5
02/03/20-0021 BRODHEAD POWER		147 GLACIAL		042054	.30	49	37	--	--	315	0	9.5	1.5	.1	--	274	268	7.3
				010135	1.10	--	--	--	--	344	0	8.0	3.0	--	.0	294	290	--
04/03/01-0022 VIL OF BROOKLYN		615 SANDSTONE		031566	.16	71	35	2.9	.7	371	0	10	3.0	--	--	322	320	7.4
				072666	.12	62	35	3.1	--	371	0	10	3.0	.1	.3	322	299	7.4
				050358	.90	66	44	--	--	403	0	.8	2.0	.1	--	324	326	7.3
04/03/07-0023 CITY BELLEVILLE		394 SANDSTONE		062066	.11	59	37	2.3	--	344	0	8.0	.5	.1	4.0	310	301	7.6
				101563	.20	62	40	--	--	374	0	5.5	.0	.0	.4	308	318	7.4
				033057	.04	54	33	5.0	--	320	0	4.5	2.0	--	--	372	271	7.4
02/09/20-0023 CITY BRODHEAD		442 SANDSTONE		062266	.32	59	42	1.4	--	361	0	11	1.7	.2	2.2	324	323	7.4
				031164	.30	58	43	--	--	373	0	7.0	.5	.0	.3	304	320	7.3
				091960	.10	--	--	1.0	1.9	388	0	10	.0	.0	--	322	336	7.2
04/07/14-0023 VILL NEW GLARUS		465 SANDSTONE		062066	.99	55	39	1.4	--	344	0	14	.7	.1	2.6	308	301	7.5
				040959	.10	57	40	--	--	354	0	18	2.5	.1	--	304	306	7.3
				122944	.30	55	36	--	--	356	0	11	3.8	.1	--	--	320	7.5
01/07/07-0055 E CAMPBELL		165 ---		031270	.20	106	47	19	6.7	458	0	79	26	.1	37	556	459	7.5
02/03/20-0064 BRODHEAD POWER		1002 SANDSTONE		042054	.20	50	36	--	--	320	0	8.5	1.5	.1	--	278	274	7.3
				010135	.20	--	--	--	--	344	0	11	6.0	--	.0	295	290	--
02/03/20-0065 BRODHEAD POWER		1002 SANDSTONE		052791	--	47	33	3.7	--	302	0	11	1.4	--	--	252	253	--
				010190	1.20	46	34	2.8	1.1	333	0	12	3.8	--	--	277	259	--
03/03/23-0065 VILL OF ALBANY		341 ---		062166	.24	47	49	1.7	--	371	0	9.0	.2	.2	2.6	310	323	7.5

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
GREEN COUNTY (CONTINUED)																		
				102758	.70	51	51	--	--	388	0	10	1.0	.1	--	316	318	7.3
				022145	.10	50	43	--	--	381	0	9.0	4.4	.1	--	306	335	7.4
03/08/07-0067	VILL MONTICELLO	146	DOL-SS	062266	.06	80	32	4.0	--	356	0	24	7.0	.2	8.4	380	333	7.2
				121263	.07	75	32	--	--	355	0	14	4.5	.0	13	322	320	7.2
				022145	.00	70	32	--	--	366	0	12	11	.1	--	324	335	7.3
				010135	.00	--	--	--	--	366	0	11	57	--	--	330	312	--
IOWA COUNTY																		
05/05/10-0004	VILL BARNEVELD	307	DOL-SS	072166	.06	69	38	4.9	--	342	0	30	9.6	.2	23	402	332	7.8
				110849	.00	62	34	--	--	332	0	12	9.0	.1	--	282	301	7.2
06/01/25-0005	VILL OF COBB	758	SANDSTONE	062866	6.06	65	34	2.9	--	294	0	7.3	.4	.6	1.8	--	305	7.6
				102164	3.14	60	32	--	--	305	0	32	1.0	1.2	--	306	284	7.1
				052654	.80	61	31	--	--	332	0	17	1.5	.1	--	292	288	7.2
				121047	.90	62	28	--	--	334	0	16	9.0	.1	--	294	285	7.3
06/03/28-0007	CITY DODGEVILLE	902	SANDSTONE	030650	3.50	--	--	--	--	351	0	--	2.0	--	--	--	326	7.1
				121949	1.80	--	--	--	--	--	--	--	--	--	--	--	--	7.2
				121849	2.80	64	38	--	--	359	0	20	3.0	.1	--	324	312	--
				081649	.40	--	--	--	--	361	0	--	--	--	--	--	327	7.1
05/03/27-0008	PET MILK CO	605	SANDSTONE	090661	1.00	--	--	--	--	--	--	20	--	--	--	--	318	8.5
				012758	.50	--	--	--	--	--	--	--	--	--	--	--	316	7.4
05/03/35-0003	COOP DAIRY	755	SANDSTONE	012758	.40	--	--	--	--	--	--	--	--	--	--	--	324	7.6
05/02/03-0011	VILL OF LINDEN	802	SANDSTONE	070566	.08	68	36	2.1	--	361	0	15	.7	.2	1.8	336	319	7.4
				030463	.20	68	34	--	--	370	0	15	1.0	.0	.4	302	312	7.1
				020845	.10	69	33	--	--	368	0	18	5.3	.1	--	304	308	7.3
05/03/31-0012	CITY MINERAL PT	853	SANDSTONE	080266	.22	86	46	7.0	--	369	0	90	11	.2	13	478	408	7.4
				080762	.08	86	48	--	--	364	0	82	14	.0	21	528	410	7.3
				102958	.04	97	52	--	--	394	0	113	16	.1	--	536	448	7.3
				040655	.00	88	44	--	--	383	0	66	12	.2	--	484	419	7.1
				010151	.00	--	--	--	--	334	--	146	65	--	--	546	404	--
				070947	.00	124	48	--	--	433	0	115	30	.1	--	666	480	7.1
04/01/07-0013	VILL OF REWEY	295	DOL-SS	070566	.06	60	30	1.8	--	298	0	19	2.3	.2	1.8	276	275	7.5
				052159	.15	60	29	--	--	305	0	23	1.0	.1	--	286	272	7.1
				020845	.10	60	34	--	--	307	0	42	7.9	.1	--	282	316	7.2
05/04/14-0014	VIL OF RIDGEWAY	734	SANDSTONE	072566	.06	83	47	14	--	398	0	50	26	.2	20	494	404	7.7

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
IOWA COUNTY (CONTINUED)																		
				031054	.00	92	46	--	--	386	0	47	26	.1	--	474	404	7.3
05/05/25-0016	VILL HOLLANDALE	600	SANDSTONE	030166	.06	49	33	.9	--	310	0	5.0	.3	.1	1.8	236	260	7.7
				011553	.00	48	38	--	--	317	0	3.0	3.5	.1	--	242	260	7.3
07/01/33-0023	VILL HIGHLAND	455	---	063066	.06	39	49	9.9	--	343	0	93	23	.2	16	570	428	8.0
				030265	.07	92	55	--	--	378	0	104	26	.2	18	528	456	7.6
				112359	.04	92	55	--	--	395	0	109	22	.1	--	536	460	7.6
				031345	.00	87	46	--	--	375	0	90	26	.1	--	564	480	7.3
				010120	.00	--	--	--	--	360	0	59	42	--	--	595	400	--
06/03/25-0024	CITY DODGEVILLE	1310	SANDSTONE	012758	3.60	--	--	--	--	--	--	--	--	--	--	--	312	7.4
				051457	.60	64	32	--	--	359	0	12	2.0	.1	--	308	308	7.4
06/03/26-0026	CITY DODGEVILLE	445	---	063066	.27	57	33	1.8	--	322	0	19	1.1	.2	1.8	298	304	9.2
				012758	.10	--	--	--	--	--	--	--	--	--	--	--	310	7.6
				012445	.10	68	35	--	--	356	0	26	7.5	.1	--	326	315	7.7
06/03/27-0028	CITY DODGEVILLE	619	---	012445	.00	75	49	--	--	367	0	50	20	.1	--	400	365	7.2
				010135	.00	--	--	--	--	344	0	68	29	--	12	449	390	--
06/03/33-0045	CITY DODGEVILLE	503	SANDSTONE	063066	.06	67	39	3.3	--	344	0	30	3.4	.2	2.6	334	331	8.2
				090661	.03	--	--	--	--	--	--	34	--	--	--	--	330	8.5
				081359	.04	76	40	--	--	356	0	69	12	.1	--	440	370	7.1
				122959	.30	71	41	5.0	1.8	342	0	50	8.0	.1	--	382	346	7.3
				102958	.20	--	--	--	--	344	0	51	7.5	--	--	372	332	7.3
				102859	.20	--	--	--	--	344	0	51	6.5	--	--	380	332	7.3
				102859	.30	--	--	--	--	342	0	52	6.5	--	--	400	332	--
				102959	.20	--	--	--	--	344	0	49	7.5	--	--	370	332	7.2
				102958	.30	--	--	--	--	344	0	51	7.0	--	--	384	329	7.2
06/01/20-0049	VILL OF COBB	433	DOL-SS	062866	.19	63	34	2.8	--	343	0	13	.0	.1	.1	288	292	7.4
				021764	.28	51	34	--	--	343	0	13	.0	.1	.1	288	292	7.4
				072261	.24	--	--	--	--	342	0	--	--	--	--	--	296	7.4
				072261	3.44	--	--	--	--	342	0	--	--	--	--	--	294	7.4
				072161	1.94	--	--	--	--	344	0	--	--	--	--	--	296	7.4
06/03/34-0050	CITY DODGEVILLE	431	DOL-SS	111262	.10	71	37	--	--	346	0	39	4.5	.0	.4	346	332	7.2
				120661	.07	--	--	--	--	--	--	74	--	.1	--	--	374	7.3
				081961	.20	--	--	--	--	306	0	69	--	--	--	--	390	7.3
09/04/14-0053	A J WEISNER	110	GLACIAL	091570	.20	26	11	2.0	.1	99	0	17	3.1	.0	15	119	110	7.7
				102764	.55	--	--	--	--	72	0	10	3.0	--	15	99	81	8.2
09/04/24-0055	WILLARD LOY	35	GLACIAL	122964	.08	--	--	--	--	42	0	13	8.0	--	34	129	84	8.2

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
IOWA COUNTY (CONTINUED)																		
08/01/12-0083 VIL OF AVOCA		45	---		.06	52	29	2.1	--	271	0	13	3.0	.1	14	274	252	7.4
				052958	.00	54	32	--	--	268	0	13	3.0	.1	--	254	240	7.2
				031345	.00	53	24	--	--	271	0	12	7.0	.1	--	530	280	7.3
07/05/29-0100 GENE CAMERON		130	DOL-SS	102764	5.18	--	--	--	--	250	0	10	18	--	52	304	272	7.4
09/05/21-0102 VILL OF ARENA		415	SANDSTONE	090167	.51	54	37	1.1	--	320	0	14	.5	.2	1.8	--	288	7.2
				071966	.41	57	37	1.0	--	337	0	16	.5	.1	1.8	280	296	7.5
				041866	.64	54	38	1.6	1.4	324	0	16	3.0	.2	.3	282	292	7.4
				090965	.74	--	--	--	--	332	0	--	--	--	.1	--	286	7.4
08/04/14-0104 A J WEISNER		15	GLACIAL	122964	.08	--	--	--	--	60	0	9.0	16	--	18	112	90	8.1
03/05/19-0110 STATE OF WIS		188	SANDSTONE	092272	1.20	47	28	1.6	2.6	264	0	17	2.0	--	.4	236	230	8.0
				050472	3.70	46	27	1.8	2.3	256	0	13	2.0	.3	.1	234	230	7.6
07/01/33-0111 VILL HIGHLAND		895	SANDSTONE	050669	.80	92	50	14	--	393	0	80	26	.3	36	550	438	7.5
05/05/28-0125 DR S B MARSHALL		100	DOL-SS	040170	.54	82	42	6.2	.9	354	0	32	25	.1	29	454	377	7.5
09/05/01-0127		20	GLACIAL	122864	.61	--	--	--	--	318	0	5.2	11	--	.1	273	272	7.5
07/03/30-0128 DELMAR PEAT		---	---	051072	.07	120	40	20	2.1	440	0	51	28	.2	52	548	460	7.2
				050471	.25	95	50	18	1.2	436	--	40	24	.1	56	512	440	7.4
				091570	.15	115	52	21	.2	434	0	62	40	--	76	664	501	7.2
08/01/35-0130 LAVERN WARDELL		160	SANDSTONE	102170	.11	57	22	1.3	.6	264	0	19	3.0	.1	2.4	230	230	7.7
07/02/25-0131 C SAMUELSON		275	DOL-SS	112272	.03	89	18	2.9	1.0	322	0	13	8.0	.1	20	296	300	7.5
				102170	.06	68	33	2.2	.6	332	0	16	6.0	.4	19	301	300	7.5
07/02/13-0132 FAY GARTHWAIT		245	SANDSTONE	102170	.05	57	31	1.6	.6	310	0	13	3.0	.2	6.7	259	270	8.1
07/03/25-0133 MARV HALVERSON		470	SANDSTONE	102170	.05	58	29	1.6	.5	286	8	9.6	2.5	.2	6.1	248	260	8.4
07/04/21-0134 LEON ISSAKSON		310	SANDSTONE	102170	.08	62	32	1.1	.6	330	0	6.4	2.0	.0	4.1	271	290	7.6
07/05/02-0137 RAY PETERSON		110	SANDSTONE	111970	.11	64	29	2.0	.6	296	0	20	2.0	.6	4.9	264	380	7.7
05/03/31-0138 VILL MINERAL PT		---	---	020945	.00	96	44	--	--	342	0	164	16	.1	--	514	480	7.5
05/03/00-0139 VILL MINERAL PT		138	---	080266	.18	91	47	0.1	--	355	0	170	14	.2	4.9	492	421	7.4
				020845	.00	107	46	--	--	368	0	172	23	.1	--	576	470	7.1

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
IRON COUNTY																		
41/03/29-0052	JOE GALLISTEL	48	GLACIAL	081458	8.56	20	6.2	--	--	95	0	1.2	4.0	--	--	130	71	7.0
43/04/31-0085	TOWN OF MERCER	56	GLACIAL	062966	.67	24	5.0	2.1	--	94	0	7.0	1.8	.1	2.0	118	81	7.6
45/01/11-0086	OGLEBAY NORTON	--	PRECAMB.	051965	1.90	--	--	--	--	144	0	9.6	8.0	--	.1	140	129	6.5
46/02/34-0087	MONTREAL MINE	2860	PRECAMB.	110966	--	249	63	99	22	182	0	27	670	.3	3.1	1360	981	7.0
46/02/14-0088	EAGLE BLUFFS CC	57	PRECAMB.	082770	1.84	25	9.9	1.5	.1	118	0	9.1	1.2	.0	.9	119	103	6.7
JACKSON COUNTY																		
27/04/30-0010	CITY ALMA CENTR	236	---	090166	.64	7.0	4.0	4.4	--	37	0	16	4.7	.3	1.8	68	34	6.6
				112265	.33	8.5	3.1	2.7	2.8	32	0	13	4.0	.3	.1	68	34	6.6
				091357	--	--	--	--	--	--	--	--	--	--	--	--	--	8.8
				101945	2.00	8.1	3.6	--	--	37	0	18	8.5	.4	--	86	43	6.6
				010135	1.00	--	--	--	--	39	--	11	12	--	.0	85	42	--
22/05/17-0011	VIL OF HIXTON	192	SANDSTONE	090166	.06	9.0	2.9	2.1	--	22	0	10	2.1	.2	8.4	--	32	6.2
				030965	.32	9.3	3.1	--	--	34	0	13	1.0	.3	--	76	36	6.1
				070364	.14	8.4	3.6	--	--	24	0	--	2.0	--	--	--	36	5.9
				070364	.10	8.4	3.6	--	--	24	0	--	1.5	.3	--	--	36	6.0
				070364	.22	8.4	3.6	--	--	24	0	--	1.5	.3	--	--	36	5.9
22/03/04-0012	CURTIS WOODRUFF	32	SANDSTONE	032570	.49	7.8	2.1	--	--	23	0	2.4	.9	--	1.2	--	18	6.7
24/06/32-0015	STATE HWY COMM	200	SANDSTONE	032470	3.70	12	2.5	--	--	52	0	6.0	.4	--	.0	72	40	7.6
				110865	6.72	7.5	--	--	--	48	0	1.5	--	--	.2	78	34	6.3
				031365	4.80	--	--	--	--	44	0	4.0	--	--	--	--	36	6.6
21/04/22-0023	CITY BL RIV FLS	52	GLACIAL	021563	.13	18	6.0	3.0	--	51	0	22	9.5	--	8.7	--	68	6.3
				021263	.18	17	7.0	6.5	5.5	64	0	24	11	.2	3.3	129	72	7.1
				121167	.19	11	4.1	4.0	2.4	46	0	13	4.0	.2	.1	82	44	6.5
				172467	.32	--	--	--	--	34	0	--	--	--	.5	--	44	6.3
21/04/22-0026	CITY BL RIV FLS	52	GLACIAL	020569	.09	8.0	3.0	2.7	--	29	0	7.0	5.0	.2	--	--	32	5.8
21/06/04-0032	VIL OF TAYLOR	310	SANDSTONE	072565	1.82	13	5.9	2.5	--	49	0	19	1.0	.2	3.5	82	57	6.9
				101345	4.34	13	5.0	--	--	61	0	22	5.5	.4	--	102	64	6.7
				070135	2.10	--	--	--	--	54	--	24	4.0	--	.0	104	78	--
22/01/22-0033	RALPH EMERSON	50	SANDSTONE	032470	.76	5.3	7.6	--	--	26	0	19	3.4	--	4.1	56	28	6.3
20/04/16-0034	GLEN YOUNG	90	SANDSTONE	032570	1.26	20	6.8	--	--	33	0	20	2.0	--	1.6	92	78	7.7

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
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JACKSON COUNTY (CONTINUED)

13/05/22-0035	RAY SCHOLGE	125	SANDSTONE	032570	.00	31	15	--	--	163	0	11	1.1	--	.4	140	139	7.4
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JEFFERSON COUNTY

08/15/04-0002	CITY WATERTOWN	1145	SANDSTONE	032746	1.20	72	34	--	--	377	0	16	6.0	.2	--	324	325	7.6
08/15/04-0003	CITY WATERTOWN	745	MULTIPLE	082065	.75	77	34	3.2	--	378	0	18	2.5	.2	2.0	366	335	7.7
				032746	.50	72	32	--	--	377	0	18	5.5	.2	--	318	325	7.2
08/15/04-0004	CITY WATERTOWN	725	SANDSTONE	082066	1.46	69	34	7.5	--	346	0	16	7.6	.2	2.2	330	309	7.4
				032745	.80	70	32	--	--	371	0	16	9.0	.2	--	314	320	7.2
07/15/16-0007	JOHNSON CREEK	751	---	083066	.33	69	32	5.9	--	339	0	14	12	.2	.4	348	306	7.7
05/16/21-0011	NEAL WILSON	50	GLACIAL	071347	2.50	52	32	7.1	1.6	353	0	9.2	2.8	.0	1.2	304	286	7.4
06/14/11-0013	CITY JEFFERSON	954	SANDSTONE	081185	.35	55	31	6.1	--	310	0	16	8.0	.2	1.8	296	267	7.9
				082765	.38	53	35	5.5	--	307	0	13	9.0	.2	--	280	274	7.3
				120765	.38	53	35	5.5	1.5	307	0	14	9.0	.2	.5	280	274	7.3
06/14/11-0014	CITY JEFFERSON	939	SANDSTONE	082766	.39	62	39	5.0	--	354	0	20	9.0	.2	1.8	316	312	7.3
				120765	.28	62	38	5.0	1.5	354	0	14	9.0	.2	.5	316	312	7.3
05/16/22-0022	VILLAGE PALMYRA	172	---	081065	.06	67	31	6.6	--	303	0	36	11	.2	2.6	386	295	7.7
05/16/16-0023	W MAUL	--	---	081065	.86	67	30	2.8	--	351	0	12	1.1	.2	.4	306	293	8.0
05/14/04-0043	CITY FT ATKINSON	1066	MULTIPLE	082765	.21	55	31	5.0	--	305	0	13	5.8	.2	1.8	306	271	7.7
05/14/03-0044	CITY FT ATKINSON	1030	SANDSTONE	082765	.16	54	31	5.2	--	290	0	14	7.1	.2	1.8	304	263	7.6
				082145	.05	51	26	--	--	351	0	14	12	.2	--	276	245	--
05/16/16-0045	J A WARD	250	---	082763	1.24	53	50	2.6	--	390	0	10	1.0	.2	1.8	358	354	7.6
07/13/14-0068	CITY LAKE MILLS	642	SANDSTONE	083066	.29	64	43	2.6	--	394	0	7.5	3.5	.1	.0	330	332	7.6
				081164	.32	62	43	--	--	390	0	7.5	3.5	.1	.0	330	332	7.6
09/14/31-0078	U W EXP FARM	94	DOL-SS	081367	.00	--	--	--	--	414	0	35	16	--	2.0	394	380	7.8
05/16/26-0080	K MARSH SR	216	DOL-SS	082763	.42	69	31	2.9	--	334	0	9.0	2.5	.2	1.8	308	300	7.8
08/13/37-0082	NW GRAIN PAC CO	201	SANDSTONE	082065	.07	65	42	2.9	--	393	0	11	3.0	.1	.6	346	336	7.5
7N/3E/1E-0083	MUCK FARMS INC	116	GLACIAL	081367	.00	--	--	--	--	356	0	11	2.0	--	.3	300	310	7.9

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
JEFFERSON COUNTY (CONTINUED)																		
05/14/04-0085	CITY FT ATKINSON	1030	SANDSTONE	062766	.15	56	34	4.6	--	317	0	9.0	6.7	.2	1.8	298	281	7.6
07/13/13-0086	US FISH CULTURE	720	SANDSTONE	062959	.40	--	--	--	--	339	0	--	--	--	--	--	294	7.6
03/13/07-0087	NW GRAIN PAC CO	290	SANDSTONE	082966	.88	66	45	2.8	--	401	0	13	3.0	.1	.8	350	352	7.5
09/13/05-0088	CITY WATERLOO	250	SANDSTONE	062966	.06	74	40	3.3	--	389	0	16	3.7	.2	6.2	384	353	7.3
				030860	--	67	43	--	--	395	0	12	2.0	.1	--	338	344	7.2
7N/3E/3A-0090	CITY LAK MILLS	820	SANDSTONE	063066	.37	62	40	4.4	--	354	0	8.0	5.0	.2	1.8	326	328	7.4
				031865	.24	62	40	--	--	354	0	8.0	5.0	.2	--	326	328	7.4
				060658	36.00	--	--	--	--	427	0	--	--	--	--	348	--	7.5
				060658	.70	--	--	--	--	410	0	--	--	--	--	--	340	7.4
				060658	1.80	--	--	--	--	415	0	--	--	--	--	--	340	7.4
				060658	1.00	--	--	--	--	405	0	--	--	--	--	--	332	7.4
				060658	.50	--	--	--	--	392	0	--	--	--	--	--	324	7.4
				060558	.40	--	--	--	--	376	0	--	--	--	--	--	308	7.4
				060558	.70	--	--	--	--	374	0	--	--	--	--	--	311	7.4
				060558	.50	--	--	--	--	378	0	--	--	--	--	--	314	7.2
05/14/33-0091	CITY FT ATKINSON	1015	SANDSTONE	062766	.28	66	35	3.3	--	356	0	10	2.4	.2	1.8	324	309	7.5
05/16/33-0092	TROUT FARM	--	DOL-SS	052768	.04	69	33	3.6	--	315	0	20	4.5	.3	12	348	308	7.6
05/16/33-0094	TROUT FARM	--	GLACIAL	052768	.08	69	34	3.3	--	310	0	32	3.0	.3	8.9	350	310	7.6
05/14/11-0098	CITY JEFFERSON	890	MULTIPLE	080960	.10	--	--	13	--	354	0	20	1.0	--	--	--	300	8.0
				062766	.39	57	36	4.5	--	334	0	20	7.0	.2	1.8	298	292	7.4
				120765	.92	57	36	4.5	1.5	334	0	14	7.0	.2	.5	298	292	7.4
07/13/13-0099	US FISH CULTURE	311	SANDSTONE	062959	.35	--	--	--	--	361	0	--	--	--	--	--	312	7.6
03/15/04-0105	CITY WATERTOWN	712	SANDSTONE	062066	.89	73	28	3.2	--	366	0	16	2.8	.2	1.8	344	323	7.4
				022161	.84	66	27	--	--	362	0	12	2.5	.1	.0	316	311	7.3
05/15/27-0103	JERRY VONNOY	--	GLACIAL	052768	.12	84	42	11	--	320	0	48	24	.3	41	492	384	7.4
09/15/04-0109	CITY WATERTOWN	700	---	061362	.84	44	30	--	--	365	0	16	3.5	--	--	306	234	7.5
05/16/22-0123	VILLAGE PALMYRA	435	---	081066	.86	67	30	2.8	--	351	0	12	1.1	.2	.4	306	293	8.0
05/14/19-0125	CHARLES BENFORD	412	SANDSTONE	022773	.07	59	47	2.9	1.4	416	0	4.6	2.0	.1	.1	318	340	7.4
05/13/25-0126	ALLAN BOEHOLZ	108	GLACIAL	032773	.08	66	43	2.9	1.3	346	0	27	9.0	.1	16	352	340	7.4
07/14/03-0145	STATE HWY COMM	371	SANDSTONE	052768	1.24	59	40	2.6	--	390	0	10	1.0	.2	1.8	358	354	7.6

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
JEFFERSON COUNTY (CONTINUED)																		
08/13/05-C146 CITY WATERLOO		400	SANDSTONE	062966	.65	60	36	2.5	--	344	0	12	.5	.2	1.8	308	299	7.4
08/13/06-C152 CITY WATERLOO				062965	.06	73	43	3.6	--	398	0	15	4.8	.2	7.1	386	361	7.4
				030360	.50	66	44	--	--	398	0	13	2.0	.1	--	336	354	7.2
07/16/14-C211 SELL		44	GLACIAL	051967	5.45	--	--	--	--	389	0	25	4.0	--	2.6	364	350	7.5
08/13/20-C221 ART SEMRAU		151	DOL-SS	051967	.00	--	--	--	--	183	10	15	3.0	--	.2	186	176	8.6
09/14/13-C226 CHAS ZOELICK		108	GLACIAL	051967	1.45	--	--	--	--	252	4	42	21	--	.1	304	273	8.4
05/16/24-C227 ROYAL LONGLEY		126	GLACIAL	052667	.16	--	--	--	--	387	0	29	6.0	--	.7	354	365	7.6
JUNEAU COUNTY																		
15/02/37-0016 CITY OF ELROY		450	---	080966	.38	34	17	1.8	--	160	--	13	1.0	.2	1.8	152	139	7.2
				112657	.50	36	12	--	--	161	0	8.3	1.5	.1	--	160	146	7.2
				091345	.30	33	15	--	--	151	0	24	9.0	.1	--	184	190	6.6
14/02/35-0020 VIL WONEWOC		300	SANDSTONE	081166	.07	22	11	1.3	--	106	--	15	1.0	.1	1.8	112	100	7.9
14/02/35-0026 VIL WONEWOC		432	---	092646	.20	13	4.0	--	--	--	--	13	6.5	.1	--	80	49	6.0
15/02/31-0036 CITY OF ELROY		280	SANDSTONE	080966	.06	23	10	2.2	--	102	0	14	1.6	.2	7.5	124	98	7.0
				112657	1.00	33	9.8	--	--	127	0	16	2.5	.1	--	160	128	7.2
				011454	.10	31	9.2	--	--	129	0	15	3.0	.1	--	158	126	6.7
23/02/11-0051 CONSERVATION		19	GLACIAL	122364	.37	--	--	--	--	8	0	20	9.0	--	18	82	38	5.9
23/02/11-0054 CONSERVATION		86	SANDSTONE	122364	.19	--	--	--	--	8	0	11	47	--	5.1	124	35	5.8
16/03/03-0064 D L DYER		190	SANDSTONE	061264	.07	--	--	--	--	232	4	1.2	1.0	--	.2	210	194	8.3
14/02/27-0069 VIL UNION CENTR		205	SANDSTONE	051564	.15	13	5.0	1.0	--	51	00	8.0	.9	.1	2.2	56	52	6.7
				051564	.10	--	--	--	--	--	--	--	--	--	--	--	42	6.9
13/02/03-0082 BUD PARKER		0012	GLACIAL	122364	6.73	--	--	--	--	20	0	26	5.5	--	3.7	73	36	6.4
17/04/35-0085 BSA CASTLE ROCK		0150	SANDSTONE	122264	.90	--	--	--	--	13	0	1.6	1.0	--	.2	18	2	6.1
17/03/01-0086 ART KRAUS		0020	GLACIAL	122264	.24	--	--	--	--	4	0	11	2.0	--	12	51	16	6.0
13/02/14-0087 W E SIMPSON		0012	GLACIAL	122364	.46	--	--	--	--	6	0	38	67	--	54	276	67	5.2

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
KENOSHA COUNTY																		
02/22/20-0005	MRS J L BISHOP	28	GLACIAL	102265	--	--	--	--	--	320	0	--	325	--	--	--	1180	7.8
02/22/11-0006	PETRIFY SP PARK	1751	SANDSTONE	110972	.36	38	9.5	290	3.8	338	0	370	81	.6	2.4	1000	130	7.9
				051772	.46	76	19	190	8.0	302	0	370	55	2.0	2.8	944	270	7.7
				061963	.28	--	--	--	--	290	0	--	--	1.8	--	--	178	7.6
				050363	.36	--	--	--	--	290	0	304	45	--	--	796	170	7.8
01/22/10-0009	LARRY MAURER	773	MULTIPLE	061162	.22	5.2	3.2	--	--	210	19	183	12	--	--	503	26	8.8
02/20/19-0019	BONG RECREATION	74	GLACIAL	102672	2.03	78	48	3.6	1.1	430	0	35	2.5	.2	.5	370	390	8.0
				032972	2.34	96	46	4.6	1.1	463	0	35	3.0	.4	.3	430	400	7.5
				062062	2.70	99	42	--	--	460	0	31	3.5	--	--	408	395	7.3
				043057	.80	98	41	--	--	433	0	33	4.0	--	.0	615	390	7.9
02/20/17-0021	BONG RECREATION	1908	SANDSTONE	030758	.50	76	20	--	--	310	0	41	3.5	.9	--	330	266	7.4
02/20/15-0026	BRIGHTON SCH	900	SANDSTONE	062066	2.50	67	14	--	--	332	0	39	7.5	--	--	350	215	6.4
				100659	.80	--	--	--	--	--	--	--	41	--	--	--	226	7.4
01/23/13-0031	EDWARD ROE	105	NIAGARA	110872	.09	8.4	2.8	50	1.1	152	0	.2	7.7	.3	1.3	177	32	8.0
				062062	.11	7.5	2.2	--	--	158	0	4.4	8.5	--	--	167	28	8.0
				062062	.11	7.5	2.2	--	--	158	0	4.4	8.5	--	--	167	28	8.0
02/22/25-0032	WM KEMPAINEN	235	NIAGARA	030959	1.20	--	--	--	--	--	--	--	--	--	--	--	177	--
01/20/30-0057	WILMOT HIGH SCH	195	NIAGARA	112963	.79	--	--	8.4	--	418	0	12	2.0	--	--	343	333	7.3
02/22/11-0236	PETRIFY SP PARK	155	NIAGARA	112963	.31	--	--	113	--	127	0	256	12	--	--	507	144	7.1
				061963	.48	--	--	--	--	132	0	--	--	.9	--	--	140	8.0
01/22/35-0247	PL PRAIRIE SD 1	700	NIAGARA	072866	.32	37	70	44	--	252	0	106	2.0	1.0	1.8	350	219	8.0
01/22/25-0254	SPARKLINS WATER	180	NIAGARA	112963	.13	--	--	106	--	92	0	262	11	--	--	490	134	7.3
01/23/30-0263	CAROL BEACH EST	940	SANDSTONE	072766	1.00	92	21	50	--	375	0	150	24	1.8	1.8	518	318	7.1
				030364	.48	67	17	70	--	291	0	123	34	1.5	1.1	476	236	7.2
				013164	1.04	87	25	--	--	326	0	168	26	1.5	--	568	320	7.2
01/23/30-0293	CAROL BEACH EST	370	MULTIPLE	030364	.44	8.4	4.1	77	--	185	0	32	8.5	1.1	.3	234	38	7.4
				020464	.54	10	6.5	--	--	198	0	19	11	1.2	--	--	52	7.6

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SC 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
KEWAUNEE COUNTY																		
25/25/20-0001	CITY OF ALGOMA	1335	MULTIPLE	103167	.30	77	33	7.7	--	315	6	44	10	.7	.3	336	328	8.4
				073059	.05	73	35	--	--	329	0	57	9.0	.5	--	370	324	7.4
				021554	.80	90	33	20	--	321	0	70	33	.5	.4	428	346	7.6
				011446	.30	91	31	--	--	331	0	72	35	.5	--	414	324	--
25/25/20-0002	CITY OF ALGOMA	1305	MULTIPLE	062766	.06	114	42	77	--	293	0	130	132	.9	1.8	814	458	8.1
				073059	2.00	74	35	--	--	361	0	46	5.5	.4	--	358	324	7.4
				011446	.06	69	31	--	--	343	0	43	14	.4	--	424	325	--
23/25/20-0005	CITY KENAUNEE																	
23/25/20-0005	CTY OF KEWAUNEE	600	NIAGARA	062766	.48	99	37	14	--	273	0	167	16	.8	1.8	526	404	7.9
				030962	.44	82	37	--	--	261	0	164	12	.6	1.1	470	358	7.7
				031555	.30	68	34	--	--	307	0	53	6.5	.3	--	354	310	7.8
				052553	.03	58	31	--	--	305	0	23	6.5	.3	--	290	270	7.5
				011446	.20	88	38	--	--	281	0	175	18	.6	--	496	386	--
24/23/21-0006	VILL LUXEMBURG	495	MULTIPLE	062866	.06	91	41	14	--	392	0	50	18	--	3.5	456	398	7.3
				033165	.06	--	--	--	--	--	--	--	--	--	--	--	--	7.1
				022549	.00	79	30	--	--	340	0	50	20	.7	--	416	310	7.4
24/23/21-0003	VILL LUXEMBURG	431	NIAGARA	012568	.10	62	50	9.0	--	373	0	40	12	--	.9	400	360	7.7
25/25/27-0009	CITY OF ALGOMA	504	MULTIPLE	062766	.06	69	26	9.4	--	302	0	36	7.5	.5	1.8	326	286	8.0
				053062	.39	60	29	--	--	312	0	13	4.5	.4	.0	290	270	7.5
				070860	.20	75	33	9.8	2.1	337	0	60	12	.3	--	356	322	7.6
22/24/01-0012	GILBRY ALBRECHT	132	NIAGARA	102772	.33	45	24	18	1.4	256	0	23	2.0	1.1	.0	248	210	8.0
				061369	.37	50	22	--	--	260	0	30	3.0	--	.2	236	216	8.0
24/24/17-0013	BERND CAVILLION	74	NIAGARA	061369	1.01	96	40	--	--	406	0	56	8.0	--	2.6	426	404	7.6
24/24/14-0014	EDWARD URBANEK	109	GLACIAL	061369	1.63	--	--	--	--	194	10	.4	1.0	--	.5	167	146	8.5
25/23/19-0015	NORBERT RABAS	192	NIAGARA	061369	1.63	--	--	--	--	356	0	25	4.0	--	.0	323	304	7.7
23/23/25-0016	LEO KUSTKA	83	NIAGARA	061369	.38	--	--	--	--	344	0	28	4.0	--	.2	325	316	7.9
22/22/27-0017	LEONARD CHERNEY	83	NIAGARA	061369	1.04	--	--	--	--	332	10	25	3.0	--	.2	334	316	8.4
23/24/17-0018	GEORGE KRUSE	195	NIAGARA	061369	1.12	--	--	--	--	306	0	2.0	3.0	--	.5	244	250	7.9
23/23/25-0019	KENETH KOLHROSS	100	GLACIAL	061369	.37	44	46	7.7	1.6	360	0	5.2	4.0	.4	.5	287	299	7.8
22/24/07-0022	WM S OTRADOVIC	92	---	011568	--	--	--	--	--	--	--	--	--	--	--	--	256	--

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
KEWAUNEE COUNTY (CONTINUED)																		
24/25/13-0024 KEWAUNE CO FARM	185 NIAGARA	121862	1.94	70	33	--	--	342	--	37	1.0	.0	.0	336	310	--		
		031562	1.94	65	34	--	--	345	0	40	3.0	.0	.3	364	314	7.6		
23/25/17-0025 CITY KEWAUNEE	187 ---	062766	.37	124	48	25	--	250	0	270	15	.9	1.8	736	509	7.7		
		092562	.34	92	38	--	--	224	0	170	20	.8	.1	530	388	7.3		
		012060	.35	98	40	21	--	249	0	230	22	.7	.1	580	425	7.6		
		031555	.10	103	44	--	--	273	0	175	28	.7	--	592	440	7.5		
		052353	.10	101	43	--	--	276	0	200	31	.7	--	604	436	7.3		
		011446	.40	110	44	--	--	251	0	27	33	.8	--	662	430	--		
23/24/14-0026	ARTHUR F KUEHL	90 NIAGARA	121856	--	--	--	--	--	--	--	--	--	--	--	--	--	352	--
LA CROSSE COUNTY																		
15/07/06-C002 CITY LACROSSE	135 ---	062166	.06	63	28	3.2	--	284	0	20	4.5	.2	16	346	273	7.7		
		090762	.08	64	24	--	--	268	--	18	6.5	--	--	296	260	7.8		
15/07/33-C003 CITY LACROSSE	145 GLACIAL	010967	.08	72	26	7.0	--	234	0	52	16	.2	27	336	288	7.4		
		062166	.06	59	29	5.0	--	267	0	43	9.0	.2	21	416	293	8.0		
		083065	.07	--	--	--	--	--	--	--	--	--	--	--	--	--		
		083162	.09	67	26	--	--	281	--	38	7.5	.0	21	--	276	7.4		
		122953	.00	64	22	--	--	246	--	41	7.5	.1	--	330	266	7.4		
		071352	.10	--	--	--	--	224	--	--	--	--	--	--	224	--		
15/07/33-C004 CITY LACROSSE	150 GLACIAL	062065	.06	75	28	4.7	--	293	0	33	8.0	.2	11	404	305	7.6		
		083065	.10	--	--	--	--	--	--	--	--	--	--	--	--	--		
		090762	.08	70	27	--	--	264	--	39	3.5	.0	20	270	284	7.6		
		122953	.00	59	22	--	--	229	--	39	7.0	.1	--	308	248	7.4		
		072252	.00	--	--	--	--	249	--	--	--	--	--	--	252	--		
15/05/06-C005 VILL OF BANGOR	143 SANDSTONE	060366	.38	57	28	2.2	--	281	0	21	2.0	.2	1.8	284	259	7.5		
		012557	.54	55	31	--	--	290	0	19	2.0	.1	--	268	258	7.4		
		091045	.60	56	27	--	--	295	0	26	6.0	.1	--	272	290	7.3		
		010135	.60	--	--	--	--	246	0	13	6.0	--	.0	268	268	--		
15/07/07-0012 CITY LACROSSE	90 GLACIAL	102672	.01	24	6.2	2.2	.6	69	6	16	2.9	.1	7.8	109	86	8.5		
		031572	.08	24	4.8	2.6	.6	77	0	13	4.0	.0	9.2	110	80	8.2		
15/07/20-0013 CITY LACROSSE	494 SANDSTONE	062166	.51	56	25	3.8	--	261	0	23	7.5	.1	1.8	286	243	7.5		
		090762	.72	58	25	--	--	273	--	19	9.0	.0	.5	--	248	7.5		
		122151	.51	50	27	4.8	2.4	265	0	21	7.8	.0	.1	--	236	7.6		
		103045	.40	53	23	--	--	268	--	22	12	.0	--	250	250	7.4		
15/07/33-0015 CITY LACROSSE	151 ---	010967	.08	72	26	7.0	--	234	0	52	16	.2	27	366	288	7.4		

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
LA CROSSE COUNTY (CONTINUED)																		
17/07/07-0016 VIL OF HOLMEN	95	GLACIAL	083065	.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			091262	.08	67	25	--	--	--	224	--	48	--	.0	25	--	272	7.6
			122953	.00	62	22	--	--	--	229	--	43	8.0	--	--	326	258	7.3
			080466	.15	75	24	3.1	--	--	322	0	15	3.6	.2	10	328	286	7.8
			030466	.03	77	25	--	--	--	254	--	--	--	--	--	--	296	7.9
			052460	.18	78	26	--	--	--	329	0	19	5.0	.0	--	352	302	7.3
16/07/23-0018 CITY LACROSSE	119	---	010554	.00	70	18	--	--	--	261	0	21	8.5	.0	--	338	260	--
			062166	4.90	61	21	2.2	--	--	259	0	18	3.5	.2	1.8	270	241	8.1
			083065	2.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			091262	4.96	59	21	--	--	--	248	--	18	3.5	.0	.7	272	232	7.4
			122051	4.90	61	25	2.5	2.2	--	269	0	36	3.0	.1	.2	--	254	7.3
			103045	5.20	65	22	--	--	--	302	--	14	6.5	.2	--	288	285	7.1
16/07/23-0019 CITY LACROSSE	121	---	070135	3.10	--	--	--	--	--	285	0	78	5.0	--	--	369	317	--
			062166	1.04	67	29	2.0	--	--	310	0	28	2.9	.2	1.8	326	289	7.8
			091262	1.10	67	29	--	--	--	313	--	21	2.5	.0	.8	310	288	7.4
			103045	1.00	66	28	--	--	--	328	--	30	5.5	.1	--	306	310	7.2
			070135	.50	--	--	--	--	--	317	0	22	6.0	--	.0	267	295	--
			062166	3.12	72	30	2.2	--	--	324	0	23	3.3	.2	2.6	356	307	7.5
16/07/23-0020 CITY LACROSSE	126	---	083065	1.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			091262	2.20	73	29	--	--	--	321	--	22	3.0	.0	2.1	332	302	7.5
			122051	.18	74	38	2.9	1.4	--	354	0	51	4.5	.1	.9	--	338	7.5
			103045	.90	67	29	--	--	--	312	--	42	8.0	.1	--	316	325	7.3
			070135	.30	--	--	--	--	--	290	0	57	5.0	--	1.9	316	330	--
			062166	1.54	93	36	2.9	--	--	394	0	39	4.7	.2	1.8	446	384	8.0
16/07/23-0022 CITY LACROSSE	139	---	083065	.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			091262	.90	86	32	--	--	--	354	--	46	3.5	.0	1.1	384	346	7.7
			122151	.14	65	30	5.8	1.7	--	273	0	48	8.8	.1	23	--	285	7.8
			103045	.20	59	20	--	--	--	242	--	36	9.0	.1	--	292	245	7.3
			062166	1.01	75	27	3.1	--	--	314	0	27	5.3	.2	2.2	352	299	7.6
			083165	.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16/07/33-0023 CITY LACROSSE	150	---	030163	1.16	75	27	--	--	--	329	--	36	3.5	.2	1.9	342	300	7.3
			110762	.94	79	27	--	--	--	323	--	30	1.5	.2	.5	352	308	7.2
			122953	.20	68	22	--	--	--	259	--	38	6.5	.2	--	330	270	7.3
			122151	.04	61	27	3.5	2.5	--	251	0	43	6.8	.1	17	--	262	7.5
			083165	.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			091262	.50	76	29	--	--	--	331	--	40	3.5	.2	4.4	356	310	7.6
16/07/23-0024 CITY LACROSSE	150	---	122953	.10	64	24	--	--	--	276	--	29	4.5	.1	--	308	270	7.3
			122051	.13	60	27	3.1	1.6	--	273	0	37	3.0	.1	8.9	--	260	7.6

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
LA CROSSE COUNTY (CONTINUED)																		
15/07/06-0025 CITY LACROSSE		194	---	062166	.06	80	19	11	--	249	0	29	15	.2	28	--	280	7.7
				083162	.08	69	21	--	--	242	0	44	13	.0	31	--	260	7.8
				122151	.07	66	24	14	2.5	231	0	50	15	.1	49	--	264	7.8
				103095	.00	70	18	--	--	194	0	64	20	.1	--	370	240	7.6
16/06/07-0028 CITY WEST SALEM		520	SANDSTONE	062366	.18	61	25	3.5	--	281	0	20	4.3	.2	3.5	300	257	7.5
				070135	.20	--	--	--	--	279	0	11	6.0	--	.6	257	280	--
16/07/08-0031 CITY ONALASKA		90	---	062266	.06	60	16	4.2	--	200	0	20	9.8	.1	24	--	215	8.1
				052360	.04	60	19	--	--	237	0	21	4.5	.0	--	274	228	7.4
				112045	.00	57	15	--	--	207	0	22	8.0	.0	--	256	200	7.5
15/07/09-0033 CITY LACROSSE		155	GLACIAL	062066	.06	71	27	4.7	--	285	0	33	7.5	.2	26	--	289	8.3
				083065	.10	--	--	--	--	--	--	--	--	--	--	--	--	--
				090762	.13	69	19	--	--	276	0	31	8.0	.0	27	350	290	7.6
15/07/34-0034 CITY LACROSSE		160	---	062066	.06	62	22	5.1	--	210	0	38	10	.2	26	--	247	7.6
				083162	--	61	22	--	--	203	--	38	10	.0	27	--	242	7.6
15/07/09-0035 CITY LACROSSE		160	GLACIAL	062066	.06	61	24	3.6	--	221	0	33	9.5	.2	28	362	253	7.8
				083065	.10	--	--	--	--	--	--	--	--	--	--	--	--	--
				083162	.08	66	16	--	--	188	--	30	8.5	--	26	--	232	7.4
				082654	.00	56	21	--	--	244	--	22	5.0	.0	--	296	240	7.3
16/07/15-0037 HOLIDAY HEIGHTS		245	SANDSTONE	062366	.68	60	27	1.5	--	282	0	20	2.2	.2	1.8	285	261	7.6
				021857	.80	56	28	--	--	290	--	16	3.0	.0	--	264	255	7.5
15/07/10-0038 WEDGEWOOD VALLY		375	SANDSTONE	072866	.72	55	28	1.6	--	285	0	18	.9	.1	1.8	246	252	8.0
				110956	1.00	61	30	--	--	327	--	12	1.0	.0	--	288	279	7.5
16/06/35-0041 LACROSSE CO HOS		310	SANDSTONE	031572	.92	78	13	2.1	1.7	278	0	21	3.0	.2	.1	250	250	7.6
				020470	.97	54	24	3.5	--	246	0	20	2.0	.6	.4	260	232	7.6
				070665	1.40	60	21	2.0	1.6	261	0	30	2.0	.2	.4	248	236	7.3
				072657	1.14	57	25	--	--	277	0	17	1.0	.1	--	258	246	7.2
16/08/12-0045 JOHN SCHUM		35	GLACIAL	041159	--	--	--	--	--	91	0	--	--	--	19	--	--	8.2
16/08/01-0046 V F SCHALLER		42	GLACIAL	041159	--	--	--	--	--	52	0	--	--	--	39	--	--	7.4
16/08/01-0047 ROBERT NORD		40	GLACIAL	041059	--	--	--	--	--	53	0	--	--	--	14	--	--	8.2
17/07/15-0048 WM DROCKMAN		30	GLACIAL	041159	--	--	--	--	--	57	0	--	--	--	51	--	--	7.7
17/07/15-0049 HELEN HAUSER		35	GLACIAL	041059	--	--	--	--	--	94	0	--	--	--	44	--	--	7.8
17/07/15-0050 RAY KOTNOUR		35	GLACIAL	041059	--	--	--	--	--	72	0	--	--	--	66	--	--	7.6

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MM	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
LA CROSSE COUNTY (CONTINUED)																		
16/07/19-0051	ALFRED HORNISH	40	GLACIAL	041059	--	--	--	--	--	60	0	--	--	--	36	--	--	8.2
16/07/19-0052	VERNER FITTING	40	GLACIAL	041059	--	--	--	--	--	65	0	--	--	--	44	--	--	7.4
17/07/07-0053	ANGUS HANSEN	84	GLACIAL	041059	--	--	--	--	--	207	0	--	--	--	22	--	--	7.9
17/07/19-0054	DALE L SMITH	25	GLACIAL	040959	--	--	--	--	--	36	4	--	--	--	24	--	--	8.4
17/07/19-0055	FRED SAMPSON	20	GLACIAL	040959	--	--	--	--	--	31	0	--	--	--	1.2	--	--	7.2
16/07/19-0056	HATTIE HAUSER	55	GLACIAL	040959	--	--	--	--	--	45	0	--	--	--	32	--	--	8.0
16/07/19-0057	AL BORSHIEM	35	GLACIAL	040959	--	--	--	--	--	83	0	--	--	--	23	--	--	8.1
16/07/19-0058	WALTER MILLER	50	GLACIAL	040959	--	--	--	--	--	92	0	--	--	--	31	--	--	8.1
15/07/15-0059	LOUIS HUEBNER	47	GLACIAL	040959	--	--	--	--	--	157	--	--	--	--	70	--	--	8.1
16/05/05-0062	CITY OF BANGOR	173	SANDSTONE	062366	.23	57	30	2.4	--	290	0	19	.7	.2	1.8	276	269	7.4
16/07/05-0069	CITY ONALASKA	155	GLACIAL	062266	.06	51	18	2.0	--	195	0	19	3.4	.2	23	256	203	8.0
				060462	.02	--	--	--	--	142	0	--	--	--	--	--	140	7.5
				060462	.02	44	13	--	--	167	0	12	2.0	.2	--	192	164	7.6
				060462	.02	--	--	--	--	144	0	--	.2	--	--	--	144	7.3
15/07/10-0071	WEDGEWOOD TERR	260	SANDSTONE	072866	.43	54	27	1.5	--	282	0	20	.9	.1	1.3	246	247	7.8
				030364	.36	--	--	--	--	278	--	--	--	--	--	--	250	--
15/07/31-0072	CITY LACROSSE	162	GLACIAL	062066	.06	78	23	8.0	--	249	0	27	21	.2	29	--	289	8.1
17/05/30-0075	STATE HWY COMM	125	SANDSTONE	042566	1.14	23	10	--	--	95	0	--	--	--	1.2	116	100	7.7
15/07/15-0079	SKYLINE SAN DIS	457	SANDSTONE	100267	.09	37	21	2.4	--	215	0	16	0.0	.2	.4	224	182	8.3
17/07/07-0082	VIL OF HOLMEN	105	GLACIAL	062266	.30	61	21	2.9	--	251	0	16	3.2	.2	14	418	241	7.8
				022866	.19	59	22	--	--	234	0	--	--	--	--	--	236	7.2
				101661	.13	56	22	--	--	234	--	17	5.5	.0	14	260	235	7.8
				032061	.10	55	--	--	--	227	0	--	18	.0	20	--	--	7.6
				022261	.44	--	--	--	--	261	0	--	--	--	--	--	233	7.4
15/07/22-0083	CITY LACROSSE	120	---	062166	1.30	77	26	6.7	--	307	0	31	7.5	.2	1.8	340	293	7.9
				07 25	.30	--	--	--	--	320	0	43	7.0	--	.0	300	315	--
15/06/07-0084	CITY WEST SALEM	475	SANDSTONE	062366	1.20	65	18	2.7	--	254	0	24	3.2	.2	1.8	276	237	7.6
				070135	1.00	--	--	--	--	256	0	23	16	--	--	256	260	--

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
LA CROSSE COUNTY (CONTINUED)																		
15/07/10-0085 WEDGEWOOD TERR		230	---	072966 111055	1.34 .40	57 52	29 28	1.9 --	-- --	296 293	0 0	17 16	.9 3.0	.1 .0	1.8 --	268 --	262 250	7.8 7.3
16/07/10-0087 COURT ACRES SUB		150	---	062365	1.02	52	32	1.7	--	300	0	11	.4	.2	1.8	282	265	8.0
17/05/02-0090 DUANE RODENBERG		50	SANDSTONE	032670	.26	4.6	1.3	--	--	18	0	9.2	1.0	--	3.7	37	17	6.4
LAFAYETTE COUNTY																		
03/05/25-0005 VILL OF ARGYLE		329	---	080166 020945 010135	.06 .10 .00	59 55 --	45 37 --	2.6 -- --	-- -- --	371 348 366	0 0 0	18 12 30	4.9 5.0 18	.2 .1 --	9.7 -- 31	350 282 453	332 350 410	7.6 7.4 --
01/02/11-0007 CITY SHULLSBURG		308	DOL-SS	091445	.30	68	36	--	--	368	0	50	5.5	.1	--	360	319	7.3
03/05/25-0008 VILL OF ARGYLE		525	SANDSTONE	080166 052054 080745	.31 7.20 .50	57 46 56	37 38 34	.9 -- --	-- -- --	344 349 355	0 0 0	10 7.0 12	.9 1.0 2.1	.2 .1 .2	1.3 -- --	280 288 288	296 271 315	7.6 7.3 7.3
01/02/11-0009 CITY SHULLSBURG		996	SANDSTONE	031963 012345 010135	3.44 .00 .00	99 84 --	49 50 --	-- -- --	-- -- --	377 381 361	0 0 --	110 76 20	14 10 11	.1 .1 --	6.5 -- 1.2	546 440 446	448 435 395	7.4 7.3 --
01/02/34-0013 VIOLA J LAMONT		175	DOL-SS	012260	.73	--	--	11	--	384	0	82	11	.1	50	--	430	7.1
01/02/34-0014 VIOLA J LAMONT		340	DOL-SS	012260	.25	--	--	--	--	342	0	25	2.0	.1	--	--	304	7.2
01/02/27-0015 FOREST GENSLE		475	DOL-SS	012959 020255	.70 .50	-- 60	-- 34	-- --	-- --	-- 344	0 0	9.3 4.0	-- 2.0	-- .1	-- --	236 294	286 287	7.4 7.4
02/03/03-0016 CITY DARLINGTON		30	DOL-SS	080266 020945 010135	.06 .00 .00	62 64 --	34 34 --	1.9 -- --	-- -- --	361 342 --	0 0 --	18 17 10	2.3 8.0 7.0	.2 .2 --	12 -- 2.2	306 308 329	296 300 312	7.8 -- --
03/03/35-0017 CITY DARLINGTON		810	SANDSTONE	080266 011763 111055	.18 .14 .20	64 67 59	34 34 33	1.2 -- --	-- -- --	352 359 342	0 0 0	13 11 10	.9 7.0 1.5	.2 .0 .1	1.8 .6 --	306 298 290	302 296 294	7.5 7.3 7.3
01/02/22-0034 HAYDEN		385	DOL-SS	012959 012058	.20 7.50	-- 59	-- 36	-- --	-- --	-- 351	0 0	.5 6.3	-- 2.0	-- --	-- --	186 294	174 284	8.2 7.4
01/02/25-0042 WILLIAM MARCH		492	DOL-SS	013059 012059	.10 .90	-- 89	-- 54	-- --	-- --	403 403	0 0	84 130	-- 1.0	-- --	-- --	-- 484	400 434	7.4 7.2

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
LAFAYETTE COUNTY (CONTINUED)																		
01/02/29-0050	HARRY HANCOCK	440	DOL-SS	013059	1.44	--	--	--	--	422	0	128	--	--	--	--	454	7.0
				022255	.00	65	35	--	--	339	0	18	1.0	.1	--	312	303	7.2
01/02/32-0056	COULTHARD ESTAT	265	DOL-SS	012260	.32	--	--	--	--	398	0	43	1.0	.1	--	--	365	7.1
01/02/2F-0061	ERVIN MARCH	395	DOL-SS	012260	.80	--	--	--	--	400	0	48	12	.5	32	--	401	7.2
01/02/11-0062	CITY SHULLSBURG	637	DOL-SS	090366	.06	63	34	2.3	--	346	0	18	1.6	.2	3.5	298	300	7.5
				030563	.28	63	35	--	--	355	0	16	3.0	.1	3.9	--	300	7.3
				013159	.15	--	--	--	--	--	0	18	--	--	--	300	302	7.5
				022255	.00	62	37	--	--	349	0	5.0	1.5	.1	--	290	298	7.5
				070952	.00	60	33	--	--	360	0	18	5.0	.1	--	316	306	7.1
				091445	.80	68	36	--	--	369	0	50	5.5	.1	--	360	318	7.3
01/02/0F-0068	DELBERT JOHNSON	210	DOL-SS	013059	.70	--	--	--	--	422	0	175	--	--	--	--	512	7.2
01/04/0F-0069	VILL OF GRATIOT	680	SANDSTONE	090466	.16	54	39	1.1	--	345	0	18	.9	.3	1.8	320	296	7.4
				010764	.18	55	37	--	--	340	0	11	1.0	.0	.1	294	290	7.6
				052163	.14	60	34	--	--	339	0	13	.5	.2	.7	302	290	7.5
				022745	.10	55	44	--	--	356	0	22	4.8	.1	--	302	318	7.3
04/05/23-0070	BLANCHARDVILLE	425	SANDSTONE	080366	.11	55	42	.6	--	367	0	16	.9	.2	1.8	318	315	7.9
				020945	.00	54	40	--	--	368	0	12	6.0	.1	--	--	299	7.5
				010135	.00	--	--	--	--	371	--	8.0	6.0	--	.0	322	300	--
03/01/14-0071	VILL OF BELMONT	500	DOL-SS	070765	.08	64	37	2.8	--	344	0	15	1.4	.2	1.8	336	315	7.5
				030463	.30	66	35	--	--	354	0	23	5.0	.0	7.8	308	308	7.3
				022950	.20	69	38	--	--	351	0	36	10	.1	--	366	306	7.3
01/05/1C-0072	VILL SO WAYNE	595	SANDSTONE	090466	.41	54	44	.5	--	371	0	19	1.0	.1	1.8	304	320	7.6
				082449	.40	52	44	--	--	378	0	13	4.0	.1	--	322	326	7.3
				022045	.40	56	41	--	--	378	0	19	5.4	.1	--	--	385	7.3
02/05/1F-0073	WIOTA SAN DIST	421	DOL-SS	030466	.08	73	40	5.5	--	378	0	50	9.5	.2	1.8	392	362	7.4
				082449	.00	81	34	--	--	393	0	56	12	.1	--	418	390	7.1
01/02/34-0077	CHARLES LAITY	345	DOL-SS	013059	1.30	--	--	--	--	--	0	23	--	--	--	318	318	7.4
04/04/3F-0078	WIS DEP NAT RES	29	DOL-SS	031270	.54	34	13	5.7	1.2	136	0	40	2.0	.2	5.0	204	139	6.8
01/02/22-0084	HAYDEN	343	DOL-SS	012053	1.30	61	34	--	--	346	0	13	1.0	--	--	290	284	7.2
01/02/21-0109	A HENDRICKSON	120	DOL-SS	012260	1.16	--	--	--	--	364	0	24	7.0	.2	--	--	319	7.9
01/02/11-0140	HARRY SKEWIS	160	DOL-SS	012260	.95	--	--	--	--	369	0	24	1.0	.2	--	--	321	7.6

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
LAFAYETTE COUNTY (CONTINUED)																		
01/02/15-0150 ED KITTOE		--	DOL-SS	013059 022255	.04 .00	-- 66	-- 37	-- --	-- --	361 349	0 0	31 27	-- 3.0	-- .1	-- --	-- 336	316 322	7.4 7.5
01/01/35-0151 HERMAN STUDIER		180	DOL-SS	012959	.04	--	--	--	--	--	0	45	--	--	--	382	366	7.4
01/03/15-0172 CHRISTOPHER BRO		350	DOL-SS	013059	.20	--	--	--	--	368	0	31	--	--	--	--	352	7.4
01/02/25-0181 EDWARD ENSCH		68	DOL-SS	012058	.04	83	44	--	--	322	0	88	17	--	--	480	388	7.3
01/01/27-0182 AMER LEAD ZINC		132	DOL-SS	051056	--	69	34	--	--	381	0	8.0	1.0	.1	--	304	322	7.4
01/01/27-0186 SIDNEY TEMPERLY		--	DOL-SS	013059	.20	--	--	--	--	381	0	15	--	--	--	--	318	7.4
01/01/25-0189 FRED MAUK		172	DOL-SS	021459	.04	--	--	--	--	420	0	70	--	--	--	--	410	7.8
01/01/34-0197 EARL ALDERSON		--	DOL-SS	051656	--	115	46	--	--	459	0	94	4.0	.1	--	596	526	7.2
01/01/35-0198 MARY PEACOCK		200	DOL-SS	021459	1.24	--	--	--	--	454	0	470	--	--	--	--	794	7.6
01/01/25-0210 ROBERT SMITH		125	DOL-SS	013059	2.40	--	--	--	--	383	0	116	--	--	--	--	412	7.2
01/02/15-0220 THOMPSON		300	DOL-SS	013159	.20	--	--	--	--	383	0	70	--	--	--	--	392	7.4
01/02/22-0221 JAMIESON ROONEY		435	DOL-SS	012959	.80	--	--	--	--	349	0	14	--	--	--	--	288	7.4
01/01/25-0223 THOMPSON		230	DOL-SS	013059	.40	--	--	--	--	--	0	37	--	--	--	398	368	7.2
01/02/05-0224 R K NEWMAN		180	DOL-SS	013059	.15	--	--	--	--	366	0	235	--	--	--	--	514	7.1
01/02/22-0225 VILL SEDGEWICK		485	DOL-SS	013059	.20	--	--	--	--	371	0	30	--	--	--	--	326	7.4
01/01/25-0226 DONALD KING		155	DOL-SS	013059	.04	--	--	--	--	418	0	510	--	--	--	--	814	7.0
03/01/20-0283 WIS STATE COLL		250	DOL-SS	031170	.10	67	32	3.9	.3	341	0	33	1.5	.2	1.3	300	299	7.7
02/03/03-0292 CITY DARLINGTON		875	SANDSTONE	103166 093065 093065	.56 .44 .44	60 -- --	32 -- --	1.7 -- --	-- -- --	-- 320 324	0 0 0	14 -- --	.0 -- --	.2 -- --	.7 -- --	288 -- --	284 280 292	7.1 7.7 7.7
02/05/14-0296 WOODFORD SCHOOL		141	---	033170 010135	.07 .00	63 --	35 --	1.5 --	.7 --	347 351	0 --	17 17	.6 6.0	.1 --	.2 .3	-- 328	301 335	7.7 --
02/02/19-0297 FRANCIS KEYES		400	DOL-SS	033170	.13	74	30	2.3	.8	362	0	15	.5	.1	.0	--	308	7.4
03/03/10-0298 J FITZSIMMONS		279	DOL-SS	033170	.06	110	55	1.8	1.8	448	0	70	36	.1	30	577	501	7.3

TABLE 1.--SUMMARY OF CHEMICAL ANALYSIS OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
LAFAYETTE COUNTY (CONTINUED)																		
01/05/10-0300 VILL SOUTHWAYNE	200	---	010135	.00	--	--	--	--	--	393	--	25	27	--	12	468	375	--
03/01/14-0301 VILL OF BELMONT	155	---	012445	.00	72	44	--	--	--	359	0	40	12	.1	--	368	355	7.3
			010135	.05	--	--	--	--	--	367	--	43	10	--	3.0	413	300	--
01/01/09-0302 VILL OF BENTON	325	---	080266	.08	111	54	10	--	--	390	0	175	13	.3	4.9	574	504	7.4
			030563	.08	118	58	--	--	--	417	0	192	18	.1	9.2	658	532	7.1
			012345	.00	117	65	--	--	--	406	0	195	18	.1	--	646	640	7.2
			010135	.00	--	--	--	--	--	393	--	187	19	--	.2	760	490	--
LANGLADE COUNTY																		
32/12/32-0464 CARROLL VOLM	89	GLACIAL	050972	.03	49	26	2.0	.8	.8	221	0	21	13	.2	19	276	230	7.8
			092271	.02	53	21	.5	.8	.8	202	0	22	11	.1	28	249	220	7.5
			103070	.10	54	22	1.8	.9	.9	204	0	28	12	.3	25	249	220	7.9
LINCOLN COUNTY																		
31/06/10-0001 CITY OF MERRILL	73	GLACIAL	063066	.57	23	12	5.0	--	--	107	0	9.0	8.0	.1	7.5	146	109	7.1
31/07/07-0002 CITY OF MERRILL	115	GLACIAL	063066	.07	34	10	4.0	--	--	151	0	.9	1.0	.5	1.8	150	125	7.4
31/06/10-0003 CITY OF MERRILL	77	GLACIAL	063066	.20	19	12	14	--	--	66	0	13	36	.1	10	176	99	7.1
35/06/11-0004 HY 51-8 WAYSIDE	79	GLACIAL	092972	.96	18	4.7	41	2.4	.8	16	0	11	84	.0	11	206	64	6.7
			050972	1.79	41	3.9	34	2.8	.8	20	0	16	110	.1	18	293	120	6.8
			060271	2.97	11	2.5	33	1.4	.8	18	0	3.2	46	.1	40	173	38	6.7
31/07/07-0005 CITY MERRILLMPW	125	GLACIAL	063066	.27	27	10	3.0	--	--	123	--	.9	2.0	.2	1.8	128	107	7.0
31/06/00-0009 COUNCIL GRND PK	100	PRECAMB.	060171	.11	22	29	2.5	.5	.5	205	0	11	1.0	.2	.5	190	170	7.6
32/06/17-0009 ROBERT BONKE	67	PRECAMB.	060271	.26	18	8.4	6.0	.2	.2	94	0	7.2	4.0	1.7	11	124	80	7.1
34/05/00-0010 HAROLD LOWE	102	PRECAMB.	060271	.17	12	3.4	3.6	.5	.5	45	0	7.6	2.0	.5	2.8	72	44	7.1
31/04/12-0029 HUBERT CLOCHERZ	64	GLACIAL	060371	.06	20	7.2	4.5	.0	.0	105	0	4.0	.2	.3	.9	111	80	7.4
31/05/16-0033 IMMANUEL LUTH C	92	PRECAMB.	060371	.06	7.0	3.3	3.7	.2	.2	32	0	8.0	1.7	.3	5.0	65	31	6.7
31/05/34-0038 G AND K TAVERN	59	PRECAMB.	092172	.09	24	7.8	55	2.2	.2	28	0	15	120	.2	6.5	289	92	6.1

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
LINCOLN COUNTY (CONTINUED)																		
				032172	.09	23	8.0	41	1.5	32	0	11	100	.3	6.9	236	90	6.3
				060471	.08	22	6.7	64	1.7	22	0	17	130	.4	3.9	300	82	6.8
31/06/30-0047	ANDREW DUGINSKI	98	PRECAMB.	060471	.25	27	7.0	5.7	.8	118	0	7.2	5.0	.3	.3	132	96	7.5
34/06/1F-0230	FULSHER SCHOOL	102	PRECAMB.	092972	.01	46	15	7.1	1.2	118	0	20	23	.1	34	263	180	7.5
				032172	.07	47	16	7.9	1.3	114	0	19	42	.2	28	290	180	7.0
				060371	.03	44	14	6.6	.9	118	0	17	32	.1	37	262	170	7.1
33/07/20-0232	NORTHERN SCHOOL	125	GLACIAL	010170	.33	24	6.0	3.0	--	102	0	5.5	1.0	.2	3.0	122	86	7.4
33/07/23-0233	NORTHERN SCHOOL	125	GLACIAL	010170	.09	30	10	3.0	--	144	0	6.5	1.0	.2	2.5	154	116	7.6
MANITOWOC COUNTY																		
18/22/04-0001	VILL OF VALDERS	626	NIAGARA	070566	.06	94	47	7.2	--	403	0	13	12	.2	4.4	350	391	7.6
				020146	.00	98	42	--	--	394	0	52	21	.1	--	458	435	7.3
20/24/05-0002	FOREMOST FOD CO	600	NIAGARA	021549	.20	246	62	--	--	303	0	630	99	.6	--	1380	785	7.3
19/24/15-0003	WISC MALT COMPY	702	NIAGARA	030267	.30	368	51	38	--	322	0	840	50	1.6	.6	1680	1130	7.3
17/23/29-0007	A T KIPKE	400	NIAGARA	072765	.12	--	--	--	--	244	0	--	12	--	.2	--	372	7.6
18/21/25-0010	VIL ST NAZIANZ	450	NIAGARA	070566	.07	70	40	4.2	--	353	0	29	5.1	.1	2.7	406	340	7.7
19/24/15-0011	WISC MALT CO	700	NIAGARA	030267	.56	323	48	31	--	354	0	680	40	1.1	.3	1450	1000	7.2
17/21/30-0012	CITY OF KIEL	450	MULTIPLE	071166	.06	66	37	6.5	--	334	0	33	7.0	.1	6.2	440	318	7.8
19/24/30-0014	WISC MALT CO	107	---	030267	.72	229	51	43	--	253	0	580	47	1.5	.4	1200	780	7.3
17/21/30-0019	CITY OF KIEL	409	MULTIPLE	071166	.07	78	44	10	--	393	0	41	17	.2	4.9	458	376	8.0
				061345	.20	58	39	--	--	357	0	22	11	.1	--	334	330	7.9
18/24/05-0021	CITY MANITOWOC	86	GLACIAL	010268	.97	66	24	6.8	--	261	0	31	16	.3	.3	312	264	7.3
				100267	.34	48	20	5.3	--	188	13	30	12	.3	.7	220	204	8.4
				030267	1.08	59	23	5.9	--	231	0	30	16	.4	1.1	286	240	7.1
				070766	.09	51	25	4.8	--	232	0	48	13	.2	.4	300	256	7.2
				111565	.30	67	26	5.4	1.7	246	0	54	12	.3	.1	308	264	7.4
				092864	.32	67	23	--	--	236	0	62	9.0	.2	--	310	264	7.7
				061063	.08	66	26	--	--	239	0	67	9.0	.2	--	234	274	7.4
				090562	.13	66	20	--	--	222	0	--	9.5	.1	2.6	300	248	7.6

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
MANITOWOC COUNTY (CONTINUED)																		
				030562	.11	64	26	--	--	245	0	65	10	.2	4.2	314	266	7.2
				090561	.07	44	15	--	--	177	0	28	7.0	.2	.8	204	174	7.7
				110760	.04	51	19	--	--	226	0	55	8.5	.1	--	276	238	7.5
				062358	.04	62	28	--	--	220	0	70	8.0	.2	--	302	246	7.6
20/24/04-0025	VIL OF MISHICOT	80	NIAGARA	070666	.46	97	41	30	--	248	0	226	13	.7	.4	684	412	7.8
19/24/09-0025	CITY MANITOWOC	83	GLACIAL	010268	.16	45	16	4.9	--	159	0	34	9.5	.3	.7	214	180	7.5
				100267	.08	44	13	4.7	--	165	0	26	8.5	.3	.7	196	164	8.0
				030267	.56	48	16	5.3	--	166	0	36	9.0	.4	1.1	234	186	7.8
				070766	.08	44	17	4.4	--	176	0	37	9.0	.2	1.8	246	192	7.5
				111565	.14	44	16	4.2	1.6	173	0	34	8.0	.3	.1	204	176	7.7
				092864	.24	46	17	--	--	170	0	40	7.0	.2	--	220	184	8.0
				061063	.18	44	17	--	--	173	0	28	8.0	.2	--	204	180	7.8
				090562	.72	41	14	--	--	156	0	--	7.0	.1	.5	188	160	7.6
				030562	.82	44	17	--	--	176	0	35	7.5	.2	.4	212	180	7.6
				090561	.14	41	13	--	--	170	0	22	6.5	.2	.4	190	164	7.7
				110760	.10	41	13	--	--	167	0	26	6.5	.1	--	216	163	7.5
				062358	.04	45	18	--	--	165	0	38	8.0	.1	--	204	170	7.6
13/23/35-0029	WIS HWY COMM	147	NIAGARA	102772	.04	35	25	21	1.1	234	0	36	2.3	.7	.0	236	190	8.1
19/23/14-0031	RIVER HEIGHTS	230	NIAGARA	102067	.59	88	36	6.2	--	312	0	94	4.5	.8	--	416	368	7.5
13/21/30-0032	VILL ST NAZIANZ	450	NIAGARA	070566	.06	96	39	3.5	--	312	0	122	3.2	.3	.7	--	403	7.6
13/22/01-0034	VIL OF WHITEHAW	495	NIAGARA	070566	.06	83	38	4.5	--	375	0	36	6.4	.2	.8	416	366	7.6
				101063	.84	92	36	--	--	361	0	48	8.5	.1	5.4	404	356	7.5
13/21/07-0043	VILL REEDSVILLE	202	---	070566	.98	8.4	3.4	3.9	--	436	0	31	4.8	.4	.4	434	394	7.6
				012946	.50	81	36	--	--	443	0	20	6.4	.1	--	394	422	7.3
13/23/37-0044	ERNEST WAMPLER	126	GLACIAL	101568	.30	--	--	--	--	272	0	94	4.0	--	.0	342	314	7.9
20/23/04-0045	MRS D SENCE	222	NIAGARA	101568	.03	--	--	--	--	322	0	40	36	--	17	396	346	7.5
13/23/27-0045	CARL OHLROGGE	175	NIAGARA	101568	.16	--	--	--	--	596	0	182	72	--	92	990	719	7.2
21/24/02-0047	KENNETH GRETZ	195	---	101468	.23	--	--	--	--	170	0	124	4.0	--	.5	322	196	8.2
20/25/10-0049	US COAST GUARD	12	GLACIAL	021758	.30	--	--	--	--	58	0	--	--	--	--	--	--	7.8
13/24/37-0050	CITY MANITOWOC	36	GLACIAL	010268	.10	44	14	6.0	--	142	0	30	15	.3	.4	200	160	7.7
				100267	.07	41	15	5.7	--	152	0	24	9.5	.2	.7	188	164	7.6
				032267	.54	78	11	5.5	--	134	0	24	8.0	.2	2.1	200	140	7.4

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CD NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
MANITOWOC COUNTY (CONTINUED)																		
				030267	.08	50	16	7.5	--	160	0	45	13	.4	1.6	246	194	7.4
				070766	.06	49	17	6.4	--	159	0	43	12	.2	1.6	232	186	7.3
				092864	.14	42	12	--	--	155	0	26	9.0	.2	--	188	156	8.1
				061063	.06	45	18	--	--	166	0	28	9.0	.1	--	210	186	7.6
				090562	.08	37	20	--	--	167	0	--	9.0	.1	1.1	210	176	7.6
				030562	.07	52	20	--	--	199	0	48	10	.2	1.6	256	212	7.2
				090561	.07	51	16	--	--	192	0	39	8.5	.0	1.6	220	198	7.6
				110760	.00	39	12	--	--	172	0	23	7.0	.1	--	180	164	7.6
MARATHON COUNTY																		
23/03/32-0043 DELBERT DENZINE		100	PRECAMB.	092172	.04	47	20	10	1.0	218	0	6.6	6.0	.3	35	254	200	7.6
				032072	.07	55	15	9.7	1.0	220	0	5.0	10	.3	33	244	200	7.6
27/07/32-0130 CTY OF MOSINES		55	GLACIAL	102964	1.29	--	--	--	--	40	0	6.4	3.0	--	1.0	74	36	7.6
				102764	.41	--	--	--	--	52	0	8.8	5.0	--	.7	86	49	6.8
23/03/31-0136 WIS HWY COMM		93	PRECAMB.	060164	1.22	--	--	--	--	156	0	--	--	--	--	--	188	8.5
26/02/11-0200 TED DELRICH		63	GLACIAL	102369	.27	41	16	8.6	1.5	204	0	6.2	9.5	.3	4.7	201	169	7.1
27/05/23-0351 HUBERT WICK		196	PRECAMB.	102269	.09	47	13	9.6	.7	122	0	11	22	.2	55	254	171	7.8
23/04/31-0472 WAYNE DELANGE		96	PRECAMB.	102269	.23	34	12	5.9	.6	170	0	6.4	1.0	.2	.0	160	135	7.1
23/06/07-0503 WILLIAM HUNTALA		61	MULTIPLE	102269	1.47	17	6.6	7.0	1.9	26	0	15	32	.0	5.3	143	70	5.6
MARINETTE COUNTY																		
30/24/07-0001 R S SKIDMORE		700	SANDSTONE	032705	2.90	214	63	51	9.0	52	--	686	131	--	--	1220	--	--
39/20/04-0010 VILL OF NIAGARA		202	GLACIAL	062366	.06	41	17	1.4	--	173	0	27	3.2	.1	2.1	--	175	7.9
				102450	.40	36	18	--	--	200	0	5.0	3.0	.1	--	170	172	7.7
30/20/14-0011 VILL OF COLEMAN		413	SANDSTONE	072969	.36	43	25	10	--	229	--	14	12	.1	.9	260	212	8.4
				090667	.39	42	26	12	--	229	0	15	12	.2	.8	242	212	7.5
30/23/15-0012 RADOOR PAPER M		703	SANDSTONE	062166	.06	41	19	14	--	137	0	70	14	.7	2.1	256	181	7.6
				032455	.00	38	18	14	--	132	0	63	14	.7	--	230	166	8.3
20/23/15-0017 PESHTIGO PULP P		704	SANDSTONE	062166	.06	35	20	15	--	124	--	75	13	.7	2.2	256	173	7.8

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
MARINETTE COUNTY (CONTINUED)																		
38/20/08-0023	VILL OF NIAGARA	104	GLACIAL	062366 021660	.06 .04	43 35	18 17	1.3 3.5	--	178 156	--	27 26	3.2 2.0	.1 .1	2.1 2.6	240 180	183 154	7.8 7.9
30/23/19-0025	CITY O PESHTIGO	695	SANDSTONE	062066 091561	.06 .14	36 37	22 24	10 --	--	194 196	--	29 32	6.3 6.5	.4 .4	2.1 .0	--	181 178	-- 7.8
30/20/11-0029	VILL OF POUND	346	SANDSTONE	062366 071262	.06 1.13	62 67	32 36	4.5 --	--	313 322	--	18 --	7.0 15	.1 .1	2.1 --	352 --	289 314	7.2 7.5
34/20/36-0030	VIL O WAUSAUKEE	48	GLACIAL	062166 031264	.06 --	65 --	28 --	1.9 --	--	296 295	--	10 --	2.3 --	.1 --	17 4.8	326 --	277 268	7.3 7.9
30/23/15-0031	STATE OF WISCON	395	SANDSTONE	092972 030772 061071 061670	.18 .35 .40 .84	110 110 110 120	37 34 38 44	56 49 60 62	13 12 12 15	310 338 337 302	8 0 0 0	220 220 250 363	38 24 24 23	.9 1.0 .9 .1	.4 .2 .2 .1	642 648 714 783	430 410 430 481	8.4 7.6 7.5 8.2
36/17/03-0091	SAM REBMAN	70	GLACIAL	062266	.09	51	18	3.0	--	237	--	6.0	4.1	.2	2.1	--	201	7.6
38/20/09-0101	VILL OF NIAGARA	79	---	062366 102450	.26 .00	38 36	17 16	1.7 --	--	163 163	--	14 15	3.2 5.0	.1 .1	10 --	222 170	167 158	7.7 7.4
36/19/23-0142	N MISSION CAMP	151	GLACIAL	092569	.20	34	15	2.6	1.9	162	0	20	.5	.2	1.2	155	147	7.5
33/21/30-0154	LESLIE OKEL	170	GLACIAL	092569	.26	46	28	3.8	2.3	268	0	13	.0	.4	.2	266	230	8.0
30/24/07-0181	AM EXCELSIOR CO	750	---	092469	2.29	38	16	6.9	1.6	188	0	14	4.0	.3	7.1	208	161	7.4
30/24/05-0183	ANSUL CHEM CO	625	SANDSTONE	061071 061670 092469	.94 2.20 1.77	96 101 --	34 41 --	120 62 --	5.8 5.5 --	472 440 388	0 0 0	130 133 89	72 56 36	.2 .2 .3	14 11 9.7	721 691 538	380 421 333	7.7 7.0 7.5
30/24/05-0185	ANSUL CHEM CO	386	DOL-SS	092469	.55	200	62	60	7.6	140	0	668	92	1.3	.5	1200	755	7.3
30/23/14-0191	BADGER PAPER M	703	---	062166 032455	.06 .00	42 39	20 19	14 20	--	149 --	--	65 50	14 13	.7 .6	2.1 --	268 244	187 174	7.6 7.9
MILWAUKEE COUNTY																		
07/21/06-C001	HARLEY DAVIDSON	1726	SANDSTONE	050250	.10	74	37	--	--	273	0	125	7.0	1.6	--	400	320	7.6
08/21/13-C007	BROWN DEER PARK	1526	MULTIPLE	061461	.49	--	--	--	--	352	0	145	8.0	1.0	.5	--	434	7.4
08/21/35-C008	MCGOVERN PARK	1407	SANDSTONE	013052	.00	100	47	31	1.9	214	0	317	5.8	1.1	1.0	661	443	7.6

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
MILWAUKEE COUNTY (CONTINUED)																		
				031147	--	117	44	43	3.0	215	0	368	5.5	1.0	.2	735	473	7.4
07/21/27-0014 CITY WAUWATOSA		1704 SANDSTONE		061562	.56	152	26	--	--	215	0	352	13	--	--	728	486	7.9
				061361	.72	--	--	--	--	216	0	347	12	.3	.4	--	522	6.9
				052152	.00	130	28	14	4.0	209	0	279	12	.4	.2	617	440	7.6
				061747	1.00	169	26	--	--	224	0	360	13	.5	--	732	460	7.3
07/21/15-0015 CITY WAUWATOSA		1804 MULTIPLE		061361	.30	--	--	--	--	222	0	181	6.0	.9	.6	--	325	7.7
				052152	.31	172	27	13	3.6	207	0	383	12	.4	.2	738	540	7.4
				010152	.38	34	25	23	1.1	230	0	41	2.4	1.4	.8	248	186	7.9
				061747	.10	99	24	--	--	215	0	190	10	.7	--	492	330	7.5
07/21/29-0016 CITY WAUWATOSA		1714 MULTIPLE		052152	.25	128	33	12	2.7	248	0	267	10	.5	.2	637	455	7.5
				061747	.50	76	48	--	--	373	0	90	10	.7	--	466	410	7.5
07/21/22-0017 CITY WAUWATOSA		1660 MULTIPLE		060652	.59	150	29	12	3.1	208	0	334	10	.3	.0	599	495	7.4
				061747	.20	116	25	--	--	215	0	225	12	.5	--	562	365	7.4
07/21/20-0018 CITY WAUWATOSA		1675 MULTIPLE		052152	.46	116	27	12	2.7	188	0	259	9.0	.3	.2	570	400	7.5
				061747	1.40	120	23	--	--	188	0	235	13	.4	--	564	360	7.5
07/21/23-0019 WASHINGTON PARK		1837 SANDSTONE		021347	--	158	29	30	8.0	235	0	361	13	.2	.2	770	513	7.6
07/21/34-0022 ALLIS CHALMERS		1690 MULTIPLE		033672	.86	220	32	12	6.2	248	0	460	11	.5	.3	940	680	7.3
				061562	1.40	44	50	--	--	345	0	82	9.5	--	--	418	316	7.6
				061961	1.14	--	--	--	--	246	0	570	10	.6	.4	--	770	6.8
06/21/09-0033 MARQUETTEWATERW		320 ---		081966	.41	49	31	32	--	250	0	135	4.2	.9	2.2	388	253	7.8
				032757	.40	52	32	--	--	261	0	112	3.0	.8	--	414	274	7.8
06/21/09-0034 BROSON MANOR		1060 MULTIPLE		081866	1.03	68	51	27	--	337	0	170	5.5	.7	.5	524	382	7.6
07/22/29-0046 BOSTON STORE		1400 MULTIPLE		051547	--	136	43	26	2.0	389	0	196	36	.9	.2	725	516	7.3
06/22/07-0080 MAYNARD ELEC ST		1727 MULTIPLE		031147	--	183	25	25	4.5	240	0	397	5.8	.6	.2	826	560	7.3
06/22/20-0085 TOWN OF LAKE		1834 SANDSTONE		091051	2.00	137	44	--	--	312	0	250	100	.6	--	1042	544	7.5
				091350	.80	153	25	--	--	254	0	295	10	.4	--	698	508	7.3
				061847	.30	149	25	--	--	259	0	280	14	.4	--	672	390	7.6
06/22/20-0086 TOWN OF LAKE		1445 SANDSTONE		091350	3.20	142	60	--	--	322	0	260	163	.6	--	1160	628	7.3
				061847	1.60	124	52	--	--	344	0	230	56	.5	--	774	480	7.5
06/21/34-0091 VIL GREENDALE		1855 SANDSTONE		022664	--	276	20	--	--	246	0	520	12	.5	.2	1090	774	7.2
				061561	1.46	--	--	--	--	226	0	617	12	.3	.4	--	784	7.2

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
MILWAUKEE COUNTY (CONTINUED)																		
				040758	1.70	408	30	--	--	254	0	1000	14	.7	--	1540	1100	--
				062755	2.80	--	--	--	--	283	--	--	--	--	--	--	1280	7.4
				042347	1.60	431	24	--	--	250	0	1000	18	.8	--	1730	990	7.3
06/21/34-0092	VIL GREENDALE	1865	SANDSTONE	022064	1.04	228	24	--	--	273	0	420	10	.5	.1	932	668	7.2
				062455	.70	131	24	--	--	281	0	170	12	.5	--	612	430	7.6
				042347	.20	134	21	--	--	283	0	230	12	.4	--	610	360	7.0
				021147	--	118	25	32	9.0	280	0	223	11	.3	.5	597	398	7.5
06/21/30-0094	WHITNALL PARK	1945	SANDSTONE	061562	.73	103	24	--	--	298	0	229	12	--	--	615	356	7.4
05/22/24-0095	ALLIS CHALMERS	1622	MULTIPLE	061562	1.40	90	27	--	--	268	0	219	15	--	--	580	336	7.4
06/21/10-0123	VAN DYKE COOP	405	---	081766	.16	24	13	46	--	163	0	85	4.2	1.2	2.2	258	113	7.9
				040357	.05	30	16	50	--	181	0	63	3.0	1.0	--	278	139	8.2
				072645	.00	15	7.0	48	--	127	0	74	7.5	1.3	--	218	74	7.9
06/21/06-0130	GREENFIELD PARK	500	NIAGARA	102954	--	35	33	28	1.3	241	0	88	1.0	.9	1.2	329	224	8.2
				021147	--	29	28	33	5.3	235	0	66	2.0	.9	.8	299	188	7.6
07/21/32-0139	LITTLE MANSIONS	202	NIAGARA	032757	.90	75	53	--	--	298	0	170	9.0	.7	--	598	428	7.6
07/21/20-0149	CITY WAUWATOSA	1692	MULTIPLE	060652	1.80	161	31	14	3.7	206	0	367	10	.4	.1	742	530	7.5
				061747	3.00	86	36	--	--	261	0	190	20	.5	--	508	390	7.4
08/21/30-0150	MCGOVERN PARK	500	NIAGARA	031147	1.50	137	48	17	2.7	298	0	310	8.0	.8	.2	726	540	7.5
07/21/00-0212	PINELAWN CEM	150	---	011652	.00	40	42	20	.7	287	0	73	4.8	1.1	.8	335	272	8.0
05/21/20-0232	HOUSE OF CORREC	1942	SANDSTONE	061562	.74	79	26	--	--	310	0	149	10	--	--	549	304	7.4
				052760	--	115	22	--	--	322	0	130	11	--	--	--	380	7.9
				011752	2.00	111	23	15	4.9	313	0	140	8.1	.7	.2	492	373	7.9
06/21/00-0233	BROSON MANOR	1076	MULTIPLE	081366	.35	59	20	38	--	233	0	130	4.6	.8	.5	368	229	7.8
05/21/10-0252	FRED KLUG	250	---	011752	.00	13	9.5	55	.7	138	0	63	4.1	1.8	.3	219	71	8.2
07/21/10-0285	CITY WAUWATOSA	1750	SANDSTONE	061361	1.73	--	--	--	--	214	0	413	12	.3	.3	--	580	7.0
				052152	.73	136	28	12	2.8	200	0	305	13	.3	.2	651	455	7.4
05/22/20-0289	ML COUNTY PARKS	205	NIAGARA	011752	.00	160	41	47	2.1	147	0	503	3.5	1.3	3.0	894	570	7.9
07/22/31-0290	DONNER PACK CO	464	NIAGARA	011752	.90	100	53	32	.6	386	7	134	46	1.1	.6	592	470	8.4
06/22/10-0292	L F TEPPER	111	---	011752	.71	45	40	19	.7	239	0	65	3.2	1.4	.1	362	276	7.9

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CC NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
MILWAUKEE COUNTY (CONTINUED)																		
03/22/27-0313 WEE CORRALS SUB		255	NIAGARA	062160	.44	119	37	--	--	366	0	106	3.0	1.0	--	478	394	7.2
03/22/07-0319 NORTHWAY SUBC		200	NIAGARA	082566	.21	79	49	17	--	368	0	108	14	.9	1.8	476	478	7.5
03/22/07-0320 NORTHWAY SUBC		205	MULTIPLE	082566	.22	79	47	17	--	368	0	99	14	.8	1.9	478	395	7.5
07/21/31-0321 KEARNEY TRECKER		1750	SANDSTONE	061461	.93	--	--	--	--	224	0	298	12	.3	.4	--	462	7.1
				020157	.30	224	35	24	--	246	0	437	15	--	.0	891	642	7.6
05/21/01-0326 KURTH MALT CO		1755	MULTIPLE	061661	.75	--	--	--	--	256	0	390	11	.3	.2	--	576	6.9
07/21/05-0327 BARRETT WOODS		377	NIAGARA	040357	.05	56	34	--	--	264	0	80	5.0	.6	--	378	278	7.8
05/21/12-0333 RAWSON HOME SUB		400	MULTIPLE	081666	.15	74	45	46	--	173	0	340	4.8	.9	2.2	636	374	7.9
03/21/11-0335 VIL BROWN DEER		700	NIAGARA	102661	.53	93	38	--	--	293	0	150	7.0	.6	--	--	373	7.4
03/01/31-0337 ROBT WILLIAM PK		706	MULTIPLE	082366	.33	107	35	24	--	276	0	210	5.2	.9	1.9	532	409	7.9
03/22/22-0341 BAYSHOR SHP CTR		1618	MULTIPLE	061562	.52	179	54	79	--	148	0	670	16	--	--	1110	669	7.7
06/22/31-0344 PARK FOREST SUB		265	NIAGARA	082366	.15	36	14	29	--	178	0	55	1.9	.8	1.9	246	147	7.7
06/21/02-0343 WILDWOOD HT SUB		250	NIAGARA	032857	.30	71	52	--	--	346	0	125	5.0	.6	--	542	414	7.6
07/21/75-0350 SUBURB HOME SUB		305	NIAGARA	040957	.10	65	32	32	--	215	0	150	5.5	.7	--	502	312	7.7
05/22/35-0377 OAKVIEW SUB 7		400	NIAGARA	082366	.09	17	10	56	--	192	0	40	10	1.2	2.7	236	85	8.1
03/21/32-0395 ROBT WILLIAM PK		705	NIAGARA	082366	.22	181	40	19	--	248	0	440	4.6	.3	1.8	913	617	7.5
				041757	.10	168	40	--	--	251	0	326	4.0	.6	--	966	599	7.4
03/21/31-0396 HAMPTON HTS SUB		360	NIAGARA	041057	.50	72	31	26	--	242	0	140	4.5	.6	--	478	324	7.6
07/21/07-0393 BARRETT WOODS		375	MULTIPLE	040957	.04	51	30	25	--	251	0	84	5.0	.7	--	360	260	7.9
03/21/14-0393 VIL BROWN DEER		700	NIAGARA	102661	.47	94	41	--	--	315	0	150	3.5	.9	--	--	388	7.5
05/22/23-0394 HOWELL AVE EST		750	NIAGARA	021164	.16	--	--	--	--	161	0	56	16	--	.1	248	--	8.3
03/21/11-0395 VIL BROWN DEER		250	NIAGARA	102661	.43	30	14	--	--	146	0	68	1.0	1.0	--	--	132	7.8
				111159	.20	102	36	18	--	264	0	220	5.0	.9	--	560	398	7.4
06/21/31-0396 HALES HAPPY HOM		330	MULTIPLE	081866	.37	59	40	18	--	354	0	31	5.2	.9	1.8	368	316	7.6
				111661	.00	67	40	--	--	403	0	24	2.5	.8	.5	--	326	7.6

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
MILWAUKEE COUNTY (CONTINUED)																		
08/21/11-0397	VIL BROWN DEER	301	MULTIPLE	111159	.40	108	40	--	--	332	0	155	8.0	.6	--	546	422	7.3
07/21/05-0390	PARKWAY HOMERITY	1400	SANDSTONE	032266	.75	32	23	9.1	--	148	0	190	8.5	.5	1.8	462	324	8.2
05/21/21-0400	SECURITY ACRES	1400	MULTIPLE	031566	.44	21	9.2	46	--	156	0	60	7.0	1.2	3.1	238	91	7.8
				112156	.10	14	4.3	--	--	140	0	33	6.5	1.2	--	204	60	8.0
08/21/11-0401	VIL BROWN DEER	300	NIAGARA	102661	.49	68	34	--	--	312	0	65	1.0	.6	--	--	302	7.6
08/21/14-0402	VIL BROWN DEER	240	NIAGARA	102661	1.35	100	43	--	--	396	0	99	2.0	.4	--	--	408	7.3
				111159	.40	73	36	--	--	327	0	89	3.0	.7	--	404	344	7.3
				041757	.70	93	34	--	--	366	0	45	2.0	.6	--	380	349	7.3
07/21/15-0403	ZURICH SUEO	306	NIAGARA	032657	.20	67	47	--	--	439	0	84	5.0	.8	--	494	390	7.3
08/21/14-0404	VIL BROWN DEER	302	NIAGARA	102661	.73	30	36	22	--	227	0	230	4.0	.8	--	--	364	7.6
08/22/05-0408	NIKE SITE MOD	1310	MULTIPLE	101256	2.00	450	43	182	14	256	0	1025	175	1.4	--	2440	1372	7.4
07/21/30-0409	BROOKVIEW PARK	1305	SANDSTONE	041757	.20	88	22	--	--	204	0	140	11	.4	--	462	320	7.7
06/21/30-0410	HALES HAPPY HOM	1060	MULTIPLE	081966	.35	61	39	18	--	361	0	31	6.0	.8	1.8	372	316	7.6
				111661	.36	63	38	--	--	405	0	24	3.0	.8	.0	--	324	7.6
05/22/10-0412	CITY OAK CREEK	1915	SANDSTONE	090366	.79	122	21	15	--	270	0	190	11	.1	1.8	590	394	8.1
				010462	.40	118	26	--	--	276	0	180	11	.4	.0	564	400	7.3
				061561	.85	--	--	--	--	274	0	195	12	.4	.3	--	395	7.0
08/22/05-0413	BLOSSOM HEATH SUB	1216	MULTIPLE	101256	1.40	545	61	1640	25	212	0	2250	1830	2.3	--	6690	1720	7.2
06/21/30-0414	BLOSSOM HEATH SUB	440	MULTIPLE	091566	1.01	63	43	6.2	--	403	0	23	1.7	.6	1.8	370	336	7.5
08/22/05-0416	PELHAM HEATH	1756	MULTIPLE	082566	1.14	204	29	24	--	246	0	450	11	1.2	2.2	946	631	7.6
				061662	.50	98	27	--	--	259	0	234	10	--	--	564	356	7.4
08/22/30-0417	JOINT SCH DIST	1192	MULTIPLE	061562	3.40	36	58	--	--	325	0	251	7.5	--	--	624	478	7.5
08/21/11-0418	VIL BROWN DEER	300	NIAGARA	102661	.79	65	43	17	--	332	0	73	5.5	.6	--	--	328	7.6
				111159	.30	110	38	--	--	332	0	155	8.0	.6	--	540	420	7.4
06/21/11-0419	VIL BROWN DEER	300	NIAGARA	102661	2.31	113	39	--	--	361	0	170	16	.2	--	--	468	7.3
05/21/21-0421	SECURITY ACRESUB	250	NIAGARA	112156	1.40	26	7	61	--	144	8	34	6.0	1.2	--	322	52	8.6
06/21/10-0422	VIL BROWN DEER	300	MULTIPLE	102661	.83	92	37	--	--	325	0	134	3.0	.8	--	--	382	7.5

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPHT	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
MILWAUKEE COUNTY (CONTINUED)																		
09/21/10-0425	VIL BROWN DEER	295	NIAGARA	102661	.47	75	36	--	--	332	0	69	1.5	.3	--	--	330	7.5
09/21/11-0431	BADGER METER CO	1254	MULTIPLE	061462	.66	86	56	--	--	438	0	267	12	--	--	724	445	7.7
06/21/22-0435	REGAL MANOR SUB	1316	SANDSTONE	081666	1.23	88	28	17	--	266	0	145	11	.5	2.1	468	338	7.5
09/22/05-0436	NIKE SITE M02	150	GLACIAL	050363	--	--	--	16	--	330	0	62	8.0	--	--	367	306	7.6
03/22/05-0441	VISTADELMAR SUB	300	MULTIPLE	082566	.45	79	33	13	--	317	0	65	10	.6	1.8	390	336	7.6
				112963	.34	76	36	12	--	342	0	62	7.0	.4	.6	388	340	7.6
06/21/22-0450	COLD SPG GARDEN	300	NIAGARA	021160	.75	56	40	--	--	337	0	67	3.0	.8	--	388	312	7.6
09/21/14-0451	VIL BROWN DEER	467	NIAGARA	102661	.69	97	28	22	--	232	0	217	4.0	.8	--	--	360	7.1
				111159	.20	81	30	22	--	234	0	165	4.0	.7	--	460	316	7.6
05/21/12-0453	RAWSON HOMES	335	NIAGARA	081666	3.33	78	74	46	--	209	0	440	4.7	1.0	3.5	808	502	7.6
05/22/16-0454	CITY OAK CREEK	1800	SANDSTONE	080366	.65	124	22	14	--	268	0	185	11	.6	1.8	592	402	7.8
				010462	.45	114	26	--	--	285	0	160	9.0	.4	.0	540	390	7.2
07/21/17-0455	MAYFAIR SHOP CT	1750	SANDSTONE	060172	.99	150	19	10	3.6	182	0	300	12	.4	.1	630	450	7.9
				082569	.62	141	29	12	3.5	194	0	304	9.0	.4	.0	654	471	7.6
				042568	.85	143	26	9.9	3.0	188	0	302	8.0	.4	.2	642	464	7.7
				052467	.54	147	24	10	2.8	188	0	292	10	.4	.2	640	466	7.7
				041266	.60	--	--	--	--	186	0	296	9.0	.4	.1	628	462	7.6
				032965	.61	136	30	12	2.3	180	0	298	9.5	.1	.1	628	463	7.8
				082664	.74	129	29	11	--	185	0	298	62	--	.0	--	485	7.2
				112963	.76	--	--	12	--	184	0	284	8.0	--	--	607	432	7.1
				050363	.00	--	--	13	--	190	0	300	8.0	--	--	662	455	7.4
06/21/31-0456	MONACO HTS SUBD	1750	SANDSTONE	081566	1.43	104	25	17	--	310	0	150	10	.5	1.8	496	366	7.7
09/21/02-0457	VIL BROWN DEER	540	NIAGARA	102661	1.13	78	26	64	--	105	0	380	12	.9	--	--	300	7.7
03/21/11-0470	VIL BROWN DEER	202	NIAGARA	102661	.23	92	39	--	--	344	0	92	5.5	.9	--	--	370	7.4
05/21/21-0472	SECURITY ACRES	1495	MULTIPLE	081666	.27	22	10	50	--	171	0	63	7.5	1.4	2.7	258	99	7.9
06/21/24-0493	SOUTHGATE MANOR	965	---	081766	.33	49	28	27	--	255	0	80	2.3	1.2	2.7	352	237	7.9
05/22/07-0499	CEDAR HILLS SUB	400	NIAGARA	080366	.29	40	17	28	--	185	0	85	2.1	.9	1.8	268	170	8.2
05/21/14-0516	ROOT RIVER HGHT	840	DOL-SS	121367	.04	66	45	14	--	368	0	46	6.5	.8	.3	418	348	7.4
				120765	.70	--	--	--	--	--	--	--	--	--	--	--	342	7.8

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
MILWAUKEE COUNTY (CONTINUED)																		
05/22/30-0540 CITY OAK CREEK		1946	SANDSTONE	032767	.64	133	13	13	--	275	0	156	12	.4	--	482	385	7.7
02/22/05-0552 NIKE SITE M-00		145	GLACIAL	022157	.20	43	44	--	--	317	0	61	6.0	--	--	525	302	7.5
05/22/20-0557 ANNETTE ACRES		243	---	030465	.36	77	17	38	--	198	0	72	2.6	1.0	1.8	280	162	9.2
06/21/20-0558 OUGLAR SUB		237	---	032365	.12	50	22	37	--	124	0	170	3.5	.8	1.8	378	216	7.6
07/21/30-0559 COLONY HOMES		354	---	031355	.43	66	30	14	--	259	0	100	9.0	.7	2.7	358	289	7.9
				040257	.30	53	30	--	--	254	0	63	7.0	.6	--	332	266	7.9
06/21/14-0560 TOWNVIEW WATER		360	---	031662	.12	25	10	59	--	95	0	150	4.1	1.2	3.1	316	105	7.9
06/21/21-0561 KLOPFERS PARK		329	---	031765	.22	63	33	50	--	249	0	180	4.5	.9	3.1	470	293	7.7
05/22/20-0562 ROWAN ESTATES		157	---	030356	1.17	30	36	--	--	300	0	400	2.9	1.0	2.2	892	600	8.3
				012253	.20	33	42	36	--	239	0	73	2.5	1.1	--	358	253	8.0
06/21/30-0563 BLOSSOM HETH SUB		265	---	031566	.06	55	44	12	--	392	0	26	1.3	.8	1.8	344	320	7.7
07/21/31-0565 THRIFTY HOMES		--	---	040357	.40	59	43	--	--	294	0	72	6.5	.6	--	382	324	7.9
07/21/15-0566 NW HIGHLAND SUB		--	---	041757	.04	56	45	10	--	373	0	63	3.0	.7	--	410	349	7.5
07/21/15-0567 CRESTVIEW HGHTS		--	---	040257	.04	54	46	--	--	329	0	68	2.5	.6	--	386	320	7.6
MONROE COUNTY																		
15/03/31-0021 VIL OF CASHTON		410	SANDSTONE	071266	.06	51	28	5.8	--	256	0	8.5	10	.2	16	260	242	7.7
				112062	.04	40	23	--	--	220	0	6.5	4.5	.1	11	218	196	7.4
				011554	.00	44	20	--	--	232	0	3.0	7.0	.1	--	230	210	7.6
15/01/32-0053 VIL OF WILTON		225	SANDSTONE	031566	.36	37	18	.9	.5	--	--	13	.5	.2	.3	200	166	7.8
				061559	.20	--	--	--	--	190	--	--	--	--	--	--	--	--
				072754	.10	39	18	--	--	--	0	13	2.0	.1	--	190	180	7.2
13/01/17-0066 CLAIRE HAGEMAN		33	SANDSTONE	122364	.13	--	--	--	--	4	0	9.6	8.0	--	41	39	46	5.8
13/01/17-0070 MERLE FISHER		35	GLACIAL	122364	6.76	--	--	--	--	214	0	37	10	--	4.8	255	214	7.6
15/03/30-0080 VIL CASHTON		253	---	032845	.00	48	26	--	--	215	0	22	22	.1	--	293	226	7.5
15/03/30-0081 VIL CASHTON		265	---	071266	.91	51	28	5.9	--	229	0	24	15	.2	24	286	244	7.7

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
MONROE COUNTY (CONTINUED)																		
				112062	.08	47	27	--	--	230	0	16	12	.0	24	270	230	7.4
				082945	.20	46	28	--	--	224	0	10	26	.1	--	276	222	7.5
18/02/15--0085	ORALD HALL	58	SANDSTONE	032570	.04	48	24	--	--	298	0	29	35	--	32	406	219	6.8
18/04/24--0086	JERRY LEIS	140	SANDSTONE	032570	.05	38	20	--	--	198	0	17	5.0	--	2.4	192	177	7.2
19/02/15--0087	EDWARD DUKS	90	SANDSTONE	032570	.28	1.3	2.8	--	--	17	0	9.2	1.2	--	.3	30	14	6.6
16/02/31--0088	ED SPICER	190	SANDSTONE	032670	.06	25	11	--	--	56	0	20	21	--	66	196	108	7.1
15/04/15--0089	HARRY SIEVHUS	220	SANDSTONE	032670	.04	42	21	--	--	204	0	15	6.3	--	14	210	192	7.2
19/04/14--0090	MAURICE JOHNSON	100	SANDSTONE	032570	.05	24	10	--	--	84	0	19	6.1	--	24	154	101	6.7
OCONTO COUNTY																		
23/20/35--0006	VILL OF LENA	500	SANDSTONE	070566	.81	34	25	9.2	--	224	2	11	5.3	.2	2.1	230	190	--
				033049	.30	34	22	--	--	246	--	10	3.5	.2	--	218	190	7.6
23/19/25--0010	OCONTO FALLS	435	SANDSTONE	070566	.35	41	28	7.0	--	256	--	14	5.0	.2	3.3	234	216	7.6
				041565	.74	40	28	--	--	256	--	14	5.0	.2	.4	234	216	7.6
				040755	.10	40	28	--	--	261	--	8.0	5.0	.1	--	232	211	7.7
				071950	.10	41	25	--	--	261	--	11	9.0	.5	--	248	216	7.7
23/13/22--0013	CITY OF GILLETT	250	GLACIAL	081666	.70	55	29	3.3	--	294	--	25	1.4	.2	2.1	276	257	7.7
23/20/27--0014	VILL OF LENA	496	SANDSTONE	070566	.19	34	25	8.0	--	222	2	11	5.3	.2	2.1	240	190	--
				110162	.59	32	25	--	--	230	--	7.5	1.0	.2	--	--	184	7.6
23/17/12--0016	VILL OF SURING	217	GLACIAL	070666	.13	13	9.6	24	--	141	3	6.0	.0	.2	2.1	142	73	8.3
				081464	.40	13	9.6	24	--	141	3	6.0	.0	.2	--	142	73	8.3
23/19/22--0155	VILL OF GILLETT	237	GLACIAL	081666	3.13	47	29	4.3	--	280	--	24	1.4	.2	2.1	264	237	--
				042855	.70	56	27	--	--	300	--	18	1.5	.1	--	284	260	7.6
				020646	.60	56	24	--	--	306	--	22	5.0	.1	--	270	250	7.7
23/22/12--0150	CITY OF OCONTO	599	SANDSTONE	062166	.11	39	18	15	3.2	110	--	76	22	1.9	.4	266	168	7.5
				060765	.12	39	18	15	3.2	110	--	76	22	1.9	.4	168	--	7.8
				072754	.00	39	19	--	--	135	--	58	24	1.3	--	266	178	7.4
				021546	.00	39	17	--	--	122	--	74	29	1.6	--	248	186	7.4
				010135	.00	--	--	--	--	112	--	74	26	--	.0	266	180	--
23/22/19--0171	CITY OCONTO	639	SANDSTONE	062166	.06	39	19	14	3.2	107	--	86	24	2.0	.4	264	176	7.5

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
OCONTO COUNTY (CONTINUED)																		
				060765	.10	79	19	14	3.2	107	--	96	24	2.0	.4	264	176	7.3
				072754	.00	40	18	--	--	--	--	70	26	1.6	--	270	178	7.6
				021546	.20	40	17	--	--	--	--	96	27	1.6	--	258	182	7.6
28/19/25-0172 VIL OCONTO FALL		150	---	010135	.70	--	--	--	--	302	--	24	23	--	.1	325	292	--
28/19/25-0173 VIL OCONTO FALL		444	---	070566	.34	36	25	9.5	--	237	--	6.0	1.5	.2	.4	204	188	7.8
				041565	.36	34	25	--	--	237	--	6.0	1.5	.2	.4	204	188	7.6
				040755	.50	45	30	--	--	--	--	14	5.5	.1	--	262	235	7.6
				121951	.30	41	26	--	--	--	--	14	5.0	.1	--	238	212	7.4
				010135	1.00	--	--	--	--	305	--	37	43	--	.9	402	316	--
ONEIDA COUNTY																		
36/09/03-0013 CITY RHINELANDR		80	GLACIAL	012870	.07	10	3.5	4.0	--	41	0	6.0	2.0	.2	1.4	--	40	7.2
35/04/33-0015 TRIPOLI POST OF		48	GLACIAL	060271	1.08	29	8.9	4.5	.4	126	0	16	2.0	.5	.1	146	110	7.6
37/04/03-0016 WILLOW REG VFD		30	GLACIAL	060271	9.20	14	5.0	1.9	.3	68	0	4.4	.0	.2	.0	80	56	7.2
36/11/23-0017 ROBERT BESSA		82	PRECAMB.	060171	.32	37	16	5.4	2.0	155	0	4.8	29	.2	.3	202	160	7.8
37/07/05-0018 HIDEAWAY LODGE		129	GLACIAL	060271	1.00	24	4.6	2.0	.9	102	0	1.2	.2	.2	.1	111	79	7.4
39/09/11-0013 WAYNE TUSHOSKI		60	GLACIAL	060371	.23	19	6.4	7.9	.8	59	0	17	9.0	.3	8.0	116	74	7.0
39/09/23-0020 KEN WEBER		122	PRECAMB.	060371	.04	12	4.5	4.0	.4	64	0	1.2	1.0	.3	.5	30	48	7.2
35/10/23-0021 WIS HY WAYSIDE		67	GLACIAL	060171	.49	9.4	2.8	2.6	.7	42	0	7.8	.2	--	.3	55	35	7.9
39/09/13-0039 MATTHEW FABIAN		89	GLACIAL	060371	.06	14	4.2	1.6	.3	64	0	5.2	.0	--	.0	71	50	7.3
OUTAGAMIE COUNTY																		
21/19/24-0002 CITY KAUKAUNA		700	SANDSTONE	010135	.40	--	--	--	--	209	--	315	15	--	.3	1461	970	--
				042511	--	272	21	146	--	266	--	604	12	--	--	1350	766	--
22/18/35-C111 R VAN SCHYNDEL		705	DOL-SS	040954	.40	41	30	15	--	307	0	13	5.5	.7	--	298	235	7.7
23/18/05-C133 LAWR BARCLAY		30	DOL-SS	042354	4.00	63	30	--	--	325	--	33	1.5	.1	--	352	299	7.3
22/17/10-0259 CLAREN PENNINGES		135	DOL-SS	042354	1.00	26	41	--	--	354	--	.0	3.0	.3	--	296	268	7.7

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
OZAUKEE COUNTY																		
10/21/27-0016 CITY CEDARBURG		1000	SANDSTONE	070666	.09	74	32	6.8	--	309	0	67	3.5	.4	1.4	356	316	7.5
				110756	.04	82	28	--	--	317	0	60	5.0	.2	--	390	337	7.5
				032251	--	85	26	15	--	281	0	105	8.0	--	1.0	386	320	7.6
				051045	.20	94	30	--	--	310	0	140	10	.2	--	452	368	7.3
10/21/27-0017 CITY CEDARBURG		47	GLACIAL	070666	.06	99	44	11	--	359	0	78	31	.2	.3	522	404	7.2
				032366	.28	89	44	11	1.6	359	0	78	31	.2	.3	--	404	7.2
				110756	.04	90	39	--	--	354	0	84	6.0	.1	--	456	402	7.4
				051045	.20	82	38	--	--	361	0	60	8.0	.1	--	414	385	7.3
10/21/25-0018 NIEMAN CANNG CO		1250	SANDSTONE	030661	.00	620	55	--	--	195	0	1650	27	.7	--	2520	1700	7.7
10/21/24-0021 CITY OF GRAFTON		518	---	070666	.06	70	37	10	--	351	0	24	11	.4	1.8	376	329	7.6
				051662	.15	69	35	--	--	371	0	32	13	.2	1.2	340	318	7.2
				090959	.04	70	37	--	--	368	0	26	8.0	.2	--	340	329	7.4
				091454	.40	80	32	--	--	359	0	39	10	.1	--	394	346	7.4
09/21/22-0022 VILL HGTS SUBDV		559	MULTIPLE	072966	.50	72	29	18	--	233	0	130	3.3	.7	1.8	--	300	--
11/21/35-0023 VIL SAUKVILLE		492	NIAGARA	070666	.11	72	37	3.6	--	370	0	23	1.5	.2	1.9	358	335	7.8
				072761	.08	73	35	--	--	376	0	14	2.0	.2	.0	334	326	7.3
				102854	.10	70	36	--	--	373	0	16	1.0	.2	--	310	316	7.3
				040446	.05	69	34	--	--	373	0	18	8.0	.2	--	316	310	7.3
12/21/25-0024 VIL OF FREDONIA		457	NIAGARA	070666	.06	81	31	5.8	--	339	0	80	1.2	.5	2.2	404	331	8.2
				051045	.30	139	37	--	--	310	0	285	6.0	.4	--	670	482	7.5
10/21/24-0025 CITY OF GRAFTON		546	---	070666	.62	63	43	14	--	365	0	28	16	.4	1.8	408	335	7.5
				051662	.47	62	42	--	--	377	0	29	18	--	2.1	--	328	7.3
				090959	.40	59	42	--	--	378	0	20	15	.4	--	354	326	7.4
				013056	.30	--	--	41	--	259	0	20	17	--	--	--	209	7.3
				022146	.10	75	35	--	--	370	0	55	16	.2	--	400	395	7.3
09/22/23-0026 CNW RAILROAD CO		1420	MULTIPLE	050707	--	452	56	--	--	310	0	1770	28	--	--	2550	1370	--
10/21/34-0027 CITY CEDARBURG		1002	MULTIPLE	070666	.23	76	37	6.3	--	349	0	53	6.0	.3	2.5	396	344	7.2
				032366	.10	76	37	6.3	1.7	349	0	53	6.0	.3	2.5	--	344	7.2
				100659	.04	74	34	--	--	355	0	47	2.5	.2	--	368	336	7.3
				110756	.00	70	33	--	--	349	0	35	3.0	.1	--	354	331	7.3
09/22/23-0028 LG ISLND HM INC		435	NIAGARA	072966	.27	34	22	61	--	146	0	185	4.9	1.2	1.8	388	176	8.0
				052157	.44	55	--	70	--	142	0	165	6.0	--	--	570	183	8.0
09/21/14-0029 CENTURY EST SBD		346	NIAGARA	082966	.24	63	34	28	--	211	0	185	3.5	.7	1.9	458	304	7.5
09/21/14-0030 LAUREL ACRE SBD		586	MULTIPLE	081866	.22	77	40	21	--	268	0	148	7.0	.3	2.6	472	358	8.2

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
OZAUKEE COUNTY (CONTINUED)																		
10/22/19-0039 CITY OF GRAFTON		1100	MULTIPLE	070666	.30	74	33	5.9	--	339	0	36	2.3	.4	1.8	448	323	7.6
				051662	.12	66	32	--	--	357	0	20	1.5	.2	.3	--	298	7.4
				090957	.05	76	33	--	--	349	0	51	6.0	.3	--	358	325	7.5
09/21/14-0044 CENTURY EST SBD		350	NIAGARA	081866	.24	56	47	27	--	244	0	140	3.2	.7	3.1	428	287	7.9
11/21/35-0045 VILL SAUKVILLE		485	NIAGARA	070666	.09	68	33	7.1	--	345	0	25	1.2	.4	1.8	336	307	7.6
				072761	.08	68	30	--	--	344	0	20	1.5	.2	.0	316	296	7.3
12/21/26-0071 VIL OF FREDONIA		360	NIAGARA	070666	--	253	62	5.2	--	250	0	610	2.1	.8	1.8	1240	859	8.2
09/21/26-0073 LAC D COURS SBD		1550	MULTIPLE	081866	.38	416	52	78	--	168	0	1130	48	1.0	3.1	1930	1260	8.0
09/21/13-0076 VILLE DU PARC S		350	NIAGARA	082566	--	136	43	22	--	265	0	320	3.6	.6	1.8	774	519	7.5
09/21/14-0077 CENTURY EST SBD		573	NIAGARA	082566	.73	52	43	15	--	311	0	53	7.0	.7	1.8	378	310	--
10/21/27-0078 CITY CEDARBURG		1210	MULTIPLE	112966	.50	84	36	6.7	--	296	0	120	10	.3	.5	500	360	7.5
10/21/13-0079 CITY OF GRAFTON		1200	DOL-SS	092065	.50	272	28	11	--	282	0	610	9.5	.7	.0	1140	795	7.0
10/21/34-0089 CITY CEDARBURG		990	MULTIPLE	122867	.36	92	40	6.7	--	334	0	74	14	.2	16	468	396	7.5
PEPIN COUNTY																		
23/15/25-0001 VIL OF PEPIN		162	GLACIAL	080366	.06	52	20	1.5	--	245	0	11	1.1	.1	9.3	242	212	7.7
				062265	.06	50	22	.6	.6	246	0	10	1.0	.2	11	234	216	7.4
				110245	.00	44	18	--	--	205	0	9.5	5.5	.1	--	224	184	7.6
25/13/22-0003 CITY OF DURAND		322	SANDSTONE	090266	.65	50	27	1.5	--	246	0	18	1.5	.1	2.0	224	236	7.4
				072252	.40	--	--	--	--	241	--	--	--	--	--	216	--	7.2
25/13/21-0020 GAYLIN LIND		30	SANDSTONE	100457	.04	51	23	--	--	254	--	29	3.0	.1	--	260	240	7.4
25/13/21-0021 CITY OF DURAND		279	SANDSTONE	080266	.72	51	27	1.2	--	261	--	18	.9	.1	1.7	236	242	7.5
				072252	.40	--	--	--	--	290	--	--	--	--	--	254	--	7.7
				120546	.20	56	27	--	--	296	0	14	6.0	.1	--	260	310	7.3
25/13/09-0028 C W SCHLOSSER		132	GLACIAL	052467	.05	--	--	--	--	42	0	9.2	3.0	--	21	83	50	7.2
23/15/36-0033 VIL OF PEPIN		123	GLACIAL	031964	.07	--	--	--	--	293	0	--	--	--	--	274	252	8.1
				031964	.07	--	--	--	--	298	0	--	--	--	--	274	256	8.0
23/15/36-0034 VIL OF PEPIN		121	GLACIAL	080366	.06	52	20	1.3	--	246	0	11	1.3	.1	9.3	248	214	7.7

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
PEPIN COUNTY (CONTINUED)																		
				062265	.06	49	22	1.6	1.1	242	0	10	1.0	.2	12	228	212	7.4
				092364	.07	--	--	--	--	278	0	--	--	--	--	257	248	7.4
				092364	.08	--	--	--	--	290	0	--	--	--	--	--	252	7.4
25/12/32-0040	STATE HWY COMM	160	SANDSTONE	052372	.48	44	26	1.1	1.1	242	0	17	2.0	.2	.3	217	220	7.9
PIERCE COUNTY																		
26/17/17-0001	VIL O ELLSWORTH	553	SANDSTONE	071366	.38	86	26	7.4	--	330	0	26	13	.2	16	402	324	7.6
				051562	.06	102	28	--	--	395	0	36	7.5	.0	22	--	370	7.3
27/19/01-0003	CITY RIVER FALLS	401	SANDSTONE	071366	.37	--	--	1.9	--	--	0	--	--	.2	1.8	--	--	7.4
				031765	.14	44	18	--	--	206	--	13	.4	.2	--	192	186	7.4
				030762	.11	44	19	--	--	211	--	14	.0	.1	.9	192	186	7.3
27/19/01-0004	CITY RIVER FALLS	379	SANDSTONE	071366	.32	--	--	1.9	--	--	0	--	--	.4	3.1	--	--	7.4
				031765	.18	45	20	--	--	215	--	13	1.0	.5	--	202	194	7.4
				030762	.14	44	22	--	--	221	--	14	.0	.1	2.5	204	200	7.7
27/15/08-0006	VIL SPRING VALL	377	SANDSTONE	071466	.29	45	18	1.6	--	210	--	16	1.0	.1	2.0	218	188	7.8
26/20/10-0007	CITY PRESCOTT	400	SANDSTONE	071366	.16	68	31	2.6	--	293	0	35	3.9	.2	14	372	300	7.9
				062160	2.40	--	--	--	--	--	0	--	--	--	--	--	--	7.4
27/15/38-0008	VIL OF ELMWOOD	452	SANDSTONE	080266	.15	59	28	1.1	--	291	--	17	1.8	.1	6.6	268	264	7.7
27/15/05-0011	VIL SPRING VALL	325	SANDSTONE	071466	5.40	40	18	1.3	--	195	--	12	.7	.1	2.0	270	174	7.9
27/16/20-0015	BERTTEN KNUTSON	172	DOL-SS	060468	.68	56	22	--	--	254	0	12	5.0	--	12	250	230	8.0
27/16/38-0017	HARRY CHELBERG	207	DOL-SS	060468	1.34	59	28	--	--	266	0	14	17	--	30	306	262	7.8
24/15/05-0030	ELMER BENGSTON	325	SANDSTONE	040968	.99	--	--	--	--	344	0	8.8	5.0	--	27	329	314	7.7
24/16/15-0032	RUSSELL JULIAN	632	SANDSTONE	080366	.64	52	18	8.3	--	235	0	24	6.3	.2	.2	234	206	7.6
				031247	1.02	49	18	--	--	243	0	24	14	.2	--	242	200	7.6
24/16/16-0034	EDWIN T PRIESS	74	GLACIAL	060668	.07	66	24	--	--	302	0	10	3.0	--	.4	250	263	8.0
24/17/05-0039	A KLINGENSMITH	124	GLACIAL	060668	.12	67	24	--	--	304	0	13	6.0	--	4.5	278	266	8.0
24/17/08-0040	LYLE F TYLER	610	SANDSTONE	100357	.50	--	--	8.0	.9	264	0	17	5.0	.1	--	234	218	7.7
25/17/01-0045	IDA HAGEMAN	278	DOL-SS	060668	.55	55	25	5.0	1.4	248	0	17	5.0	.2	2.6	287	240	7.7

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
PIERCE COUNTY (CONTINUED)																		
26/17/19-0048	ELLSWORTH VILL	718	SANDSTONE	071366	.52	79	24	3.7	--	298	0	22	5.1	.2	12	350	296	7.7
				051562	.05	84	26	--	--	344	0	31	8.0	.0	19	--	316	7.4
25/15/04-0061	NORAL LEWIS	360	SANDSTONE	040968	.08	--	--	--	--	322	0	11	4.0	--	16	303	286	7.8
26/18/01-0062	TUDOR INC	68	DOL-SS	060468	.05	98	34	--	--	366	0	38	20	--	60	460	385	7.6
26/19/01-0063	DUANE HUPPERT	101	DOL-SS	060568	.05	67	29	--	--	308	0	22	5.0	--	20	302	286	7.7
27/17/18-0064	EARL ANNETT	195	DOL-SS	060468	.06	121	22	--	--	294	0	126	13	--	35	527	393	7.6
27/18/21-0065	JOHN HOWARD	228	DOL-SS	060468	.07	82	22	--	--	310	0	46	3.0	--	.2	334	295	7.4
27/19/30-0066	RALPH MOST JR	223	DOL-SS	060568	.02	63	25	--	--	262	0	15	8.0	--	40	294	260	7.8
26/17/07-0068	HUPPERT UTILITY	734	SANDSTONE	092267	.23	64	22	.9	--	264	0	19	.5	.2	1.8	258	248	7.4
26/20/09-0072	CITY PRESCOTT	35	GLACIAL	071366	.34	63	30	7.4	--	294	0	21	7.0	.2	25	--	284	8.2
27/18/28-0073	RAYMOND MATZEK	318	DOL-SS	050168	.58	--	--	--	--	--	--	--	--	--	--	--	292	--
POLK COUNTY																		
32/15/14-0001	VIL CLEAR LAKE	304	SANDSTONE	071966	.06	49	16	4.8	--	234	0	4.0	3.7	.1	7.5	238	191	8.0
33/18/14-0002	ROCK RIDGE DAIR	251	SANDSTONE	062966	.06	44	15	5.0	--	168	0	23	4.5	.1	10	214	172	7.7
33/18/07-0003	VIL OF DRESSER	236	SANDSTONE	062966	.17	44	12	2.3	--	164	0	24	2.4	.1	3.1	202	162	7.7
				032047	.10	38	12	--	--	164	0	15	6.0	.1	--	164	140	7.3
37/17/27-0005	VIL OF FREDERIC	248	GLACIAL	062366	.06	41	11	3.6	--	160	0	9.0	2.7	.2	7.5	200	150	7.8
				050746	--	34	8.0	--	--	154	0	6.0	3.0	.1	--	164	118	7.6
33/16/24-0007	CITY OF AMERY	400	SANDSTONE	071966	.46	47	20	3.1	--	237	0	4.0	1.6	.1	1.8	208	199	7.8
32/18/14-0008	OSCEOLA AIR STA	472	SANDSTONE	112072	.77	34	15	--	--	175	0	5.0	5.0	.1	1.7	148	150	7.7
				110768	.16	43	17	3.8	.8	208	0	13	2.0	--	.2	198	177	8.0
				110266	.43	46	14	4.4	.7	211	0	12	1.5	.2	.1	194	173	7.6
				090365	1.60	40	17	4.1	.5	198	0	14	3.0	.1	.1	202	170	7.7
34/17/14-0010	VIL BALSAM LAKE	66	GLACIAL	062966	.06	27	8.0	4.6	--	98	0	12	5.5	.1	9.8	136	101	7.0
37/17/24-0014	VIL OF FREDERIC	217	GLACIAL	062966	.17	39	12	3.5	--	165	0	5.0	2.7	.1	1.8	168	146	8.0

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
POLK COUNTY (CONTINUED)																		
				060746	.08	34	9.3	--	--	159	0	8.0	5.5	.1	--	174	120	7.6
34/18/19-0015 CITY ST CROX FS		176 SANDSTONE		062966	.29	28	12	2.8	--	120	0	15	1.8	.1	12	152	120	7.5
				032564	.22	29	8.9	--	--	120	0	8.0	1.5	.1	12	158	108	7.1
				060546	.10	34	10	--	--	134	0	14	9.0	.1	--	198	112	7.2
34/19/30-0016 CITY ST CROX FS		177 SANDSTONE		062966	.06	40	11	3.9	--	159	0	12	1.8	.2	6.6	196	146	7.2
				032564	.28	47	6.9	--	--	169	0	9.0	2.0	.0	4.2	184	146	7.1
				060546	1.00	42	12	--	--	188	0	12	5.0	.1	--	188	130	7.2
34/17/10-0017 VIL BALSAM LAKE		63 GLACIAL		031947	.76	41	12	--	--	188	0	6.5	10	.1	--	206	148	7.3
36/15/05-0021 KENNETH L PACE		85 SANDSTONE		060468	.23	39	13	--	--	192	0	3.2	1.0	--	.2	164	151	8.1
35/16/35-0023 GEO MICHAELSON		206 SANDSTONE		060568	3.84	27	8.5	--	--	132	0	2.0	1.0	--	.0	118	103	7.5
37/15/25-0025 WM K BEECROFT		195 GLACIAL		060468	.18	49	18	--	--	250	0	3.2	1.0	--	.6	213	196	7.5
35/16/05-0028 ROBERT HARDER		74 GLACIAL		060568	.10	26	11	--	--	134	0	3.6	2.0	--	3.9	134	110	7.2
37/16/12-0033 ELVEN NELSON		40 PRECAMB.		060468	.27	6.5	2.9	3.5	.5	23	0	12	5.0	.2	1.8	64	28	6.0
37/16/28-0034 E T MILLER		141 PRECAMB.		060468	.19	42	19	5.4	.8	224	0	5.6	3.0	.1	5.2	198	183	7.6
35/17/17-0037 VIL OF MILLTOWN		105 GLACIAL		062866	.06	35	24	9.3	--	168	0	25	12	.1	25	288	186	7.7
				031947	--	67	19	--	--	234	0	20	35	.1	--	326	228	7.2
35/17/17-0038 VIL OF MILLTOWN		111 GLACIAL		062866	.13	51	16	10	--	179	0	30	12	.1	18	298	193	7.3
				031947	--	51	13	--	--	198	0	18	18	.1	--	248	158	7.3
35/17/08-0040 VIL OF MILLTOWN		52																
36/17/28-0041 VILLAGE OF LUCK		105 GLACIAL		062866	.06	40	12	4.1	--	161	0	13	3.0	.1	6.7	212	152	7.7
35/18/19-0047 EUREKA BAPT CH		227 GLACIAL		060468	.23	44	14	--	--	184	10	8.2	2.5	--	.1	188	168	8.7
36/19/25-0049 DARRELL JENSEN		140 GLACIAL		060468	.31	69	21	--	--	252	8	22	5.5	--	10	306	259	8.5
34/16/36-0053 FRANK CHISHOLM		84 GLACIAL		060568	.10	57	18	--	--	218	0	15	12	--	24	258	216	7.8
33/15/24-0057 VIL OF CLAYTON		155 DOL-SS		071966	.55	70	33	6.1	--	309	0	22	15	.1	4.0	364	312	7.7
				060766	.59	71	28	6.2	--	255	0	21	17	.2	--	336	298	8.0
				031947	.36	66	23	--	--	261	0	24	37	--	--	332	250	7.2
32/15/18-0061 VIL CLEAR LAKE		308 SANDSTONE		071966	.21	49	19	4.5	--	248	0	4.0	2.6	.2	4.0	232	201	7.8

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
POLK COUNTY (CONTINUED)																		
32/15/18-0062 VIL CLEAR LAKE		200	SANDSTONE	071966	.06	49	16	4.7	--	237	0	7.0	2.3	.1	5.8	222	189	7.9
32/15/19-0063 VIL CLEAR LAKE		303	SANDSTONE	071966	.06	55	18	5.2	--	248	0	8.0	8.0	.1	9.7	268	211	7.7
33/16/28-0065 CITY OF AMERY		312	SANDSTONE	071966	1.58	35	24	3.5	--	251	0	4.0	1.6	.1	1.8	226	207	8.2
				010135	.00	--	--	--	--	234	--	.0	7.0	--	.0	201	195	--
33/17/09-0070 HELGA JOHNSON		145	SANDSTONE	060368	.07	27	12	--	--	128	0	5.6	4.0	--	8.6	150	117	7.7
32/17/32-0073 CYRUS ZIEGLER		117	GLACIAL	060368	.11	40	19	--	--	208	0	6.4	4.0	--	3.8	214	178	8.0
32/17/07-0075 W EMAN LUTH CH		96	SANDSTONE	060368	.09	36	14	--	--	146	2	13	7.0	--	12	190	148	8.4
32/18/19-0076 OSCEOLA AIR STA		370	SANDSTONE	112972	.00	40	15	--	--	188	0	9.4	6.0	.1	.0	172	160	7.5
				110768	--	39	16	4.8	.6	194	0	11	3.0	--	.4	184	164	8.1
				110266	.16	41	16	4.5	.8	210	0	4.0	3.0	.2	2.8	200	168	7.6
				090365	.16	40	17	4.0	1.0	198	0	7.6	3.0	.1	3.1	194	170	7.9
32/19/15-0078 FERGIE HJELLE		172	GLACIAL	060368	.14	41	13	--	--	180	0	8.0	2.0	--	6.1	188	156	8.2
34/18/11-0079 VIL OF CENTURIA		211	SANDSTONE	062966	2.14	45	17	4.5	--	155	0	45	8.5	.2	1.8	248	183	7.4
				032047	1.28	41	14	--	--	144	0	40	14	.2	--	208	158	7.2
				010135	1.25	--	--	--	--	163	--	24	12	--	.0	200	110	--
34/18/11-0080 VIL OF CENTURIA		295	SANDSTONE	062966	1.58	46	19	3.8	--	--	0	50	11	.2	1.8	252	193	7.4
				032047	4.92	39	15	--	--	145	--	38	16	.2	--	316	156	--
36/17/03-0083 LLOYD KROLL		50	GLACIAL	100857	3.48	26	6.2	9.0	1.6	95	0	7.5	13	.1	--	236	116	6.8
33/19/27-0085 VIL OF OSCEOLA		320	SANDSTONE	062966	.39	47	12	2.6	--	194	0	5.0	.9	.4	1.8	184	166	7.5
33/19/01-0086 JAMES H RIDEAUX		700	MULTIPLE	030972	1.46	3000	97	1800	32	42	0	460	7600	.5	3.2	14300	7900	6.8
				051071	1.54	2600	53	1500	27	56	0	500	6700	.4	.7	14300	6700	7.1
				061270	1.48	2850	107	1640	24	46	0	630	7600	.6	1.5	13000	7560	6.9
				101157	.79	2260	20	1410	9.8	68	0	250	5950	.2	--	10300	5730	7.2
				110129	7.70	2980	26	1820	--	116	0	599	7690	--	--	13700	755	--
				120109	--	3910	83	--	--	--	--	751	9940	--	--	--	--	--
34/17/10-0089 VIL BALSAM LAKE		71	GLACIAL	062966	.23	40	12	3.8	--	165	0	8.0	2.7	.1	4.4	180	148	7.8
32/19/07-0091 U S AIR FORCE		230	SANDSTONE	110768	.10	28	9.8	2.4	.9	116	0	6.4	2.0	.1	10	135	111	8.1
				111467	.00	28	9.2	2.7	1.0	116	0	4.4	1.5	.1	16	132	108	7.9
				110966	.43	32	6.8	2.6	1.0	116	0	5.4	3.0	.2	11	142	108	7.5
				090365	.21	27	9.5	2.5	.8	108	0	6.8	2.0	.3	13	138	107	8.2
33/18/17-0092 TROLLHAUGEN SKI		172	GLACIAL	060368	.47	38	12	--	--	152	3	16	3.5	--	2.2	174	145	8.3

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
POLK COUNTY (CONTINUED)																		
35/17/27-0095	UNITY HIGH SCH	228	SANDSTONE	060568	3.04	44	14	--	--	212	0	2.4	1.5	--	.2	182	168	7.1
37/17/28-0096	VIL OF FREDERIC	298	GLACIAL	062866	.07	35	10	4.3	--	153	0	8.0	1.4	.2	1.8	166	130	7.9
35/16/12-0109	JOE RODGERS	58	GLACIAL	060468	.17	34	14	--	--	172	0	5.2	1.0	--	2.0	158	143	7.5
36/17/28-0111	VILLAGE OF LUCK	118	GLACIAL	062866	.06	60	19	6.7	--	251	0	16	6.0	.1	5.8	294	229	7.8
34/18/20-0115	CITY ST CROX FS	171	SANDSTONE	071966	.55	70	33	6.1	--	309	0	22	15	.1	4.0	364	312	7.7
				062966	.06	32	10	2.8	--	117	0	12	2.5	.1	17	178	124	7.6
				060766	.59	71	28	6.2	--	295	0	21	17	.2	--	336	292	8.0
				032564	.46	29	10	--	--	116	0	9.0	2.0	.1	12.8	218	114	7.1
				031947	.36	65	23	--	--	261	0	24	37	.1	--	332	250	7.2
PORTAGE COUNTY																		
23/09/18-0279	ALOIS OKRAY	87	GLACIAL	082872	.02	33	16	2.1	.7	160	0	4.6	6.5	.2	7.8	171	150	7.8
				080670	.02	36	19	2.4	.7	168	0	8.1	5.0	.2	18	178	168	7.9
				082168	.02	3.5	18	2.5	.7	180	0	4.4	1.0	.1	16	194	162	8.0
21/08/23-0697	U S GEOL SURVEY	20	GLACIAL	061065	1.22	--	--	--	--	120	0	8.8	1.0	--	5.1	125	112	7.4
PRICE COUNTY																		
40/01/18-0004	CITY PARK FALLS	42	GLACIAL	071366	.27	22	7.7	2.6	--	85	--	14	1.1	.1	2.7	122	87	7.3
39/03/01-0008	U S AGR DEPT	54	GLACIAL	052367	.16	--	--	--	--	162	0	7.2	14	--	.1	194	150	8.0
35/01/01-0009	VIL OF PRENTICE	65	GLACIAL	071366	.06	38	12	4.6	--	--	--	8.0	1.7	.2	1.8	180	146	7.8
				112961	.00	34	14	--	--	--	0	5.0	.0	.1	.4	170	144	8.0
37/01/07-0013	VIL OF PHILLIPS	45	GLACIAL	071366	.23	8.4	3.7	1.2	--	--	0	3	6.0	.2	1.8	62	36	7.1
				112965	.24	8.4	3.7	1.2	.4	--	0	3.0	6.0	.2	4.6	--	36	7.1
35/01/01-0019	VIL OF PRENTICE	53	GLACIAL	071366	.06	42	13	6.3	--	--	--	21	14	.2	3.1	232	160	7.5
				112961	.75	39	14	--	--	--	0	12	4.0	.2	.9	202	154	7.5
				051145	.00	31	9.5	--	--	--	0	12	11	.1	--	166	130	6.8
37/02/30-0022	STEVE WARGA	86	GLACIAL	052367	--	--	--	--	--	208	0	16	6.0	--	.1	--	160	8.0
37/02/10-0030	MARTHA LEPKE	16	GLACIAL	052467	.15	--	--	--	--	208	0	56	52	--	74	463	290	7.1

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
PRICE COUNTY (CONTINUED)																		
34/03/35-0050	CARL RHODY	94	GLACIAL	060271	.10	21	--	--	--	100	0	4.8	3.0	.2	5.7	122	83	7.2
RACINE COUNTY																		
03/20/34-0004	PURE MILK ASSOC	200	NIAGARA	112963	.25	--	--	44	--	276	0	67	3.0	--	--	322	202	7.4
04/21/10-0008	HAROLD WOLLNER	368	---	112963	.44	--	--	74	--	108	0	163	6.0	--	--	345	104	7.4
04/22/31-0014	GOLF BOWL INC	1025	SANDSTONE	061462	1.50	54	20	--	--	286	0	154	8.5	--	--	475	217	7.8
03/22/21-0017	VIL STURTEVANT	1625	MULTIPLE	111060	.05	127	16	35	--	320	0	197	6.5	1.4	--	578	380	7.8
				110746	.40	121	16	--	--	320	0	155	10	.8	--	538	320	7.2
03/22/21-0019	ST BONAVENTURE	1100	---	072062	1.20	45	19	--	--	142	0	300	11	--	--	570	190	7.6
03/19/21-0021	ST FRANCIS MONA	1271	SANDSTONE	060762	.37	65	26	--	--	262	0	70	5.5	--	--	333	269	7.8
03/23/08-0022	HORLICK MILK CO	2010	MULTIPLE	032872	1.38	320	31	28	14	268	0	670	36	.9	.2	1300	930	7.6
				092669	2.08	349	25	30	14	254	0	784	3.6	.9	.7	1490	975	7.4
				031368	1.27	338	31	29	14	262	0	738	38	.6	.2	1420	972	7.7
				052467	1.77	352	29	30	14	266	0	742	38	.8	.5	1460	998	7.3
				050666	1.47	--	--	--	--	264	0	772	38	--	.4	1430	988	7.1
				033065	1.05	340	30	35	13	260	0	721	36	.7	.1	1410	973	7.5
				050363	1.20	--	--	32	--	262	0	730	35	--	--	1420	956	7.1
03/23/16-0026	EISENDRAH CO	1628	SANDSTONE	062162	1.30	227	26	--	--	276	0	477	36	--	--	1020	674	7.1
03/19/32-0027	CITY BURLINGTON	1492	SANDSTONE	080966	.15	63	24	4.8	--	293	0	36	3.4	.6	1.8	296	259	7.6
03/19/32-0035	CITY BURLINGTON	1440	SANDSTONE	083166	.48	62	28	7.6	--	276	0	52	4.5	.6	1.8	314	270	7.4
04/21/30-0038	N CAPE SAN DIST	300	NIAGARA	090166	.12	16	11	59	--	162	0	65	3.2	1.3	1.8	246	87	8.2
04/23/07-0047	CRESTVIEW HOMES	1200	MULTIPLE	080266	.36	82	20	53	--	259	0	150	23	1.0	1.8	508	292	8.1
04/22/04-0048	CADDY VISTA SUB	1625	MULTIPLE	110972	1.00	94	23	17	8.5	288	0	140	4.0	.3	.0	488	330	7.9
				092069	.73	89	24	18	6.0	238	0	142	12	.2	.3	485	321	7.9
				052467	1.64	110	24	17	5.6	298	0	142	12	.6	.2	514	373	7.6
				082266	1.83	111	22	17	--	285	0	185	10	.6	.4	488	369	8.2
				050666	1.93	--	--	--	--	224	0	147	12	--	.0	428	308	7.6
				032965	1.07	102	29	18	5.0	294	0	143	12	.2	.1	491	374	7.5
				082664	1.51	94	31	18	--	288	0	137	11	--	.0	--	362	7.6
				112963	1.40	--	--	18	--	298	0	143	11	--	--	489	360	7.2

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
RACINE COUNTY (CONTINUED)																		
				071462	.79	78	26	--	--	296	0	149	13	--	--	488	302	7.4
				101761	3.20	--	--	--	--	299	0	--	--	--	--	--	362	7.5
				101761	4.60	--	--	--	--	301	0	--	--	--	--	--	362	7.6
				101761	.86	--	--	--	--	295	0	--	--	--	--	--	356	7.4
				100258	.80	106	27	--	--	305	0	126	11	.5	--	512	362	7.4
03/21/30-0057 VIL UNION GROVE		1136	SANDSTONE	080166	.27	65	18	19	--	254	0	60	4.0	1.1	1.8	314	239	8.2
				061162	.22	48	20	--	--	318	0	62	6.5	--	--	375	202	7.6
				120359	.20	89	18	22	--	317	0	76	5.0	1.0	--	394	298	7.6
				061159	.20	82	22	--	--	315	0	63	5.0	1.0	--	370	282	7.6
04/20/23-0059 WINDLAKE PRODUC		304	MULTIPLE	0E1362	.15	28	25	--	--	262	0	10	2.0	--	--	231	173	8.0
03/20/25-0066 S WISC COLONY		1650	SANDSTONE	060164	.29	81	16	11	--	315	0	44	2.0	1.2	.2	334	266	7.7
				020463	1.34	--	--	--	--	326	0	--	--	--	--	--	266	7.2
				102762	.69	--	--	--	--	311	0	--	--	--	--	--	244	7.4
04/19/01-0174 FRANCIS JOHNSON		140	NIAGARA	110872	1.64	62	37	10	1.9	386	0	11	1.0	.2	.4	328	310	8.0
03/22/04-0283 JOHN PETERSEN		130	NIAGARA	112963	.51	--	--	60	--	141	0	148	2.0	--	--	336	134	7.5
03/21/04-0337 C D DUCK FARM		110	GLACIAL	0506E3	.48	--	--	65	--	130	0	188	4.0	--	--	396	164	7.4
02/19/06-0339 CITY BURLINGTON		1474	SANDSTONE	081166	.18	62	24	6.3	--	295	0	28	2.7	.6	1.8	284	257	7.6
				050263	.26	63	25	--	--	305	0	22	450	.6	.0	--	258	7.5
				050263	.26	62	25	--	--	302	0	24	250	.6	.0	--	257	7.4
04/19/36-0340 VIL WATERFORD		150	MULTIPLE	102163	1.74	--	--	--	--	396	0	--	6.5	--	--	--	386	7.5
				101663	1.04	--	--	--	--	396	0	--	7.0	--	--	--	384	7.4
				101163	.52	--	--	--	--	398	0	--	7.5	--	.1	--	392	7.5
03/21/32-0349 VIL UNION GROVE		1347	SANDSTONE	080166	.31	74	16	12	--	290	0	30	1.9	1.1	1.8	294	252	8.2
				123064	.44	--	--	--	--	315	0	--	--	--	--	--	256	7.5
				121764	.45	--	--	--	--	315	0	--	--	--	--	--	256	7.5
RICHLAND COUNTY																		
10/01/16-0002 RICHLAND CENTER		525	SANDSTONE	120662	.56	50	23	--	--	249	0	15	3.0	.0	.1	234	220	7.2
08/02/12-0003 VIL LONE ROCK		430	SANDSTONE	101647	.80	59	29	--	--	310	0	14	13	.1	--	278	260	7.3
12/02/12-0005 VILL CAZENOVIA		305	SANDSTONE	010653	.20	42	24	--	--	202	0	7.5	14	.1	--	262	208	7.9
10/01/21-0006 RICHLAND CENTER		660	---	021445	.10	50	28	--	--	271	0	17	7.0	.1	--	240	240	7.3

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
RICHLAND COUNTY (CONTINUED)																		
10/01/21-0007	RICHLAND CENTER	625	SANDSTONE	120662	.38	52	25	--	--	264	0	13	.0	.0	.2	240	232	7.4
				110556	.20	51	24	--	--	268	0	10	2.0	.1	--	240	230	7.3
10/01/21-0009	RICHLAND CENTER	620	---	021445	.50	49	25	--	--	251	0	19	8.0	.1	--	232	220	7.3
09/02/34-0020	HERMAN BINDL	248	GLACIAL	122964	1.56	--	--	--	--	304	0	14	4.0	--	.1	260	266	7.7
09/02/36-0022	J C GREENHECK	32	GLACIAL	102764	2.26	--	--	--	--	151	0	11	4.5	--	18	177	150	8.2
10/01/21-0023	KOCH TRACTOR CO	160	SANDSTONE	092272	.29	60	32	1.5	.7	320	0	19	2.0	.1	.5	274	280	7.6
				031672	.00	56	33	1.4	.7	324	0	18	1.5	.2	.0	266	280	7.6
11/01/22-0028	HARRY JOYCE	131	SANDSTONE	101670	.09	54	28	.8	.7	294	0	7.6	3.0	.1	2.6	254	250	7.5
09/01/24-0029	LARY RICHARDSON	100	SANDSTONE	101770	.75	74	35	3.3	.8	312	22	40	3.0	.2	.6	354	330	8.6
10/02/35-0030	WALTER SOUTHARD	320	DOL-SS	101770	.13	74	40	1.9	.6	386	0	4.0	8.0	.3	20	359	349	7.4
11/01/21-0031	HAARON RUNNING	348	SANDSTONE	101870	.09	61	32	1.1	.8	320	0	4.0	3.0	.1	12	274	280	7.6
12/02/32-0033	VINCENT BARREAU	309	SANDSTONE	101370	.12	45	23	1.0	.5	210	0	16	2.0	.1	6.0	200	210	8.4
12/01/18-0034	DERWIN LEVY	308	SANDSTONE	101970	.10	50	30	2.2	.4	264	0	10	6.0	.0	14	242	150	7.6
ROCK COUNTY																		
04/12/10-0001	CTY OF EDGERTON	1000	---	072666	.25	59	38	2.3	--	364	0	13	1.4	.2	1.8	316	304	7.8
				070766	.30	60	35	2.3	--	371	0	14	3.0	.0	--	312	317	7.6
04/12/10-0002	CTY OF EDGERTON	880	SANDSTONE	072666	.15	69	42	4.2	--	384	0	22	5.2	.2	7.5	396	345	7.8
				070760	.10	66	34	3.3	--	388	0	14	5.0	.0	--	332	332	7.6
03/12/13-0004	ROCK COUNTY	772	---	062562	.07	52	36	--	--	349	0	2.0	1.5	--	.0	304	280	7.3
04/13/27-0007	VIL OF MILTON	703	SANDSTONE	062366	.06	70	35	2.0	--	354	0	16	2.0	.2	4.0	328	321	7.4
				101063	.74	67	36	--	--	356	0	14	1.0	.0	2.3	326	316	7.4
04/13/27-0008	VIL OF MILTON	722	SANDSTONE	062366	.07	71	40	1.9	--	390	0	9.0	1.5	.2	1.8	347	345	7.4
				101063	.06	66	44	--	--	404	0	6.5	1.5	.0	1.2	352	344	7.5
01/14/09-0020	VILL OF CLINTON	880	SANDSTONE	072966	.72	77	36	5.4	--	364	0	28	7.5	.2	23	396	341	7.6
01/01/E3-0021	WIS POWER LIGHT	100	GLACIAL	100560	.01	68	24	--	--	339	0	30	4.5	.7	--	332	304	7.2

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
ROCK COUNTY (CONTINUED)																		
01/12/35-0024	WIS POWER LIGHT	967	SANDSTONE	082266	.12	59	34	2.6	--	325	0	11	1.8	.2	1.8	296	289	7.7
				100560	1.40	66	28	--	--	368	0	17	1.5	.0	--	320	308	7.3
				052752	.00	59	37	1.0	1.6	354	0	10	2.0	.1	.4	295	295	7.4
				010135	.05	--	--	--	--	332	--	5.0	7.0	--	.2	281	288	--
01/12/35-0025	WIS POWER LIGHT	1225	SANDSTONE	092666	.30	59	34	2.3	--	320	0	11	2.1	.6	6.6	306	291	7.7
				010461	.04	57	38	--	--	352	0	12	1.5	.0	2.1	310	303	7.2
				052752	--	51	35	1.9	1.6	317	0	10	2.5	.1	1.3	262	268	7.6
				061545	.00	54	36	--	--	354	0	10	4.5	.1	--	288	345	7.3
				010135	.00	--	--	--	--	337	--	7.0	6.0	--	2.6	297	284	--
01/12/35-0026	WIS POWER LIGHT	140	GLACIAL	062266	.06	76	33	4.0	--	325	0	37	8.5	.2	8.4	426	327	7.4
				100560	--	72	25	--	--	339	0	40	5.5	.0	--	354	308	7.2
				052752	.00	71	31	2.2	.0	325	0	30	5.5	.9	8.9	320	304	7.7
01/13/15-0027	WIS POWER LIGHT	1130	SANDSTONE	062266	.09	61	33	3.0	--	329	0	8.0	1.5	--	1.8	324	289	7.4
				100560	.00	69	28	--	--	387	0	9.3	1.0	.0	--	320	316	7.0
				112055	.04	57	34	2.4	1.4	348	0	7.0	1.2	.1	.4	280	282	7.5
				061545	.00	56	36	--	--	346	0	.0	6.5	.1	--	284	335	7.3
02/11/05-0028	VIL FOOTVILLE	251	SANDSTONE	062166	.06	63	32	3.0	--	293	0	21	3.6	.2	22	328	289	7.4
03/12/36-0029	CITY JANESVILLE	1087	---	062366	.06	73	35	2.2	--	346	0	18	3.3	.2	17	368	329	7.4
				102163	.09	69	40	--	--	359	0	14	3.5	.0	19	362	336	7.6
				010114	.40	50	36	5.4	.8	--	--	5.6	4.9	--	--	285	--	--
				120191	--	50	34	12	--	--	--	8.4	6.7	--	--	285	--	--
02/12/01-0030	CITY JANESVILLE	1125	SANDSTONE	062366	.06	68	52	1.8	--	437	0	7.0	.7	.0	1.8	374	384	7.4
				102163	.28	64	--	--	--	454	0	5.5	.0	.0	.4	380	360	7.5
03/12/36-0031	CITY JANESVILLE	100	GLACIAL	092266	.06	76	31	2.4	--	337	0	26	3.8	.2	18	366	318	7.8
				102163	.06	72	34	--	--	338	0	19	3.0	.1	19	350	320	7.4
04/10/27-0037	CITY EVANSVILLE	1014	SANDSTONE	062166	1.07	72	33	2.9	--	359	0	14	2.5	.2	--	338	317	7.3
				040252	1.46	69	35	--	--	381	0	9.5	3.8	.2	--	304	314	7.4
				043046	1.42	69	33	--	--	384	0	7.5	4.0	.1	--	316	308	7.3
				010135	3.56	--	--	--	--	388	0	1.0	3.0	--	.2	350	336	--
02/12/23-0042	ROCK CO AIRPORT	112	GLACIAL	110372	.07	76	27	2.4	.8	316	0	35	3.4	.1	18	326	300	7.2
				033172	.05	69	32	2.4	.9	302	0	37	4.0	.1	25	342	300	7.6
				062970	.01	74	32	1.4	.6	298	0	40	9.0	.2	15	336	316	7.6
				071369	.22	70	30	2.8	.9	292	0	35	3.0	.2	26	334	298	7.4
02/10/24-0044	VIL CRFORDVILLE	492	SANDSTONE	062166	.06	68	34	8.5	--	283	0	43	1.1	.2	2.7	370	313	7.4
				070257	.04	65	33	--	--	282	0	34	13	--	--	364	303	7.4

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
ROCK COUNTY (CONTINUED)																		
				031946	.00	66	36	--	--	277	0	52	17	.1	--	360	295	7.4
02/13/06-0046 CITY JANESVILLE		105	GLACIAL	062366	.06	74	34	2.7	--	324	0	27	6.5	.2	18	410	325	7.6
				102163	.33	72	34	--	--	327	0	28	1.5	.0	21	372	320	7.4
02/13/21-0060 JANESVL SCHL DS		75	DOL-SS	051767	.12	--	--	--	--	376	0	39	8.0	--	24	401	365	7.9
04/10/33-0152 WALTER METZGER		53	DOL-SS	031070	.05	90	43	6.0	2.5	400	0	32	13	.0	27	445	402	7.4
03/11/17-0182 A OSCARSON		84	DOL-SS	051767	.07	--	--	--	--	346	0	45	12	--	60	445	400	7.6
01/13/07-0213 FIRST CONG CHUR		102	DOL-SS	051767	.10	--	--	--	--	412	0	40	16	--	19	458	423	7.5
04/14/07-0258 B D GUERNSEY		74	DOL-SS	051867	.53	--	--	--	--	244	0	53	7.0	--	45	337	280	8.2
04/10/25-0282 FOUR B FARMS		262	GLACIAL	031070	2.04	75	35	4.2	1.1	406	0	7.6	.9	.1	.2	--	331	7.7
04/11/06-0292 COOKSVILLE COMM		190	DOL-SS	051767	.05	--	--	--	--	230	0	22	4.0	--	24	231	240	8.2
04/11/05-0293 H ROBERTSON		175	GLACIAL	051767	1.42	--	--	--	--	394	0	6.4	2.0	--	.9	334	320	7.7
01/11/26-0307 W KLINGBERG		91	DOL-SS	031070	.44	86	47	5.7	1.2	402	0	36	12	.0	31	447	408	7.6
01/10/30-0311 C HAROLDSON		170	GLACIAL	031070	.05	54	24	3.1	.7	332	0	12	.7	.1	.2	291	275	7.5
01/11/19-0320 H HALVERSON		242	DOL-SS	031070	.04	73	32	3.7	.5	372	0	9.2	.6	.1	2.9	--	314	7.7
01/12/35-0343 WIS POWER LIGHT		113	GLACIAL	062266	.06	72	34	6.5	--	351	0	38	13	.2	8.0	424	323	7.4
				010461	.00	65	33	--	--	300	0	43	12	.0	11	338	295	7.3
				120660	.03	64	35	--	--	306	0	38	12	.0	--	316	292	7.4
				120856	.00	62	32	--	--	300	0	32	10	--	1.4	306	290	7.6
42/11/03-0350 EILVIN DOUGLAS		81	DOL-SS	051767	.05	--	--	--	--	342	0	26	12	--	22	361	322	7.5
01/12/04-0373 JESS NODLAND JR		205	GLACIAL	051867	.04	--	--	--	--	334	0	18	2.0	--	1.8	300	280	7.8
03/12/10-0451 PAUL MACKE		104	GLACIAL	110372	.13	50	30	2.5	1.0	292	0	3.2	.4	.1	2.9	244	250	8.0
				033172	.06	58	31	2.8	1.1	338	0	4.6	1.0	.2	2.1	283	270	7.6
02/11/19-0452 VIL ORFORDVILLE		528	SANDSTONE	062166	3.13	64	35	2.2	--	293	0	19	1.3	.2	43	354	307	7.5
				082659	.04	62	34	--	--	293	0	16	5.0	--	34	330	295	7.4
				112057	.00	61	30	2.0	1.4	288	0	9.3	6.0	.0	--	334	288	7.5
04/13/27-0467 CITY EVANSVILLE		997	SANDSTONE	082266	.71	70	33	3.4	--	357	0	8.0	2.6	.2	1.8	316	312	7.6
				103058	1.80	74	37	--	--	384	0	1.5	1.0	.1	--	384	324	7.6

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
ROCK COUNTY (CONTINUED)																		
				120658	1.16	64	40	--	--	393	0	2.9	1.0	.1	--	320	315	7.4
				031060	1.08	70	36	--	--	368	0	16	4.0	.1	--	322	322	7.4
4N/3E/8A-0474	VIL MILTON JCT	1050	SANDSTONE	062366	.06	73	36	2.6	--	368	0	14	2.5	.2	4.0	362	333	7.4
				101063	.13	74	34	--	--	366	0	14	3.0	.0	4.9	332	324	7.6
				022761	.00	66	30	--	--	368	0	14	3.0	.0	5.3	324	319	7.3
04/12/04-0478	CITY EDGERTON	1120	SANDSTONE	072666	.06	66	38	2.5	--	389	0	5.0	.9	.1	1.8	334	325	7.7
				092161	.05	--	--	--	--	376	0	--	--	--	--	--	310	7.4
03/13/32-0482	CITY JANESVILLE	130	GLACIAL	062366	.06	78	37	3.2	--	337	0	30	8.5	.2	25	414	349	7.7
04/12/11-0488	OAKHILL SUBDIVI	376	SANDSTONE	072666	.16	69	42	2.8	--	409	0	7.0	1.5	.1	3.5	362	349	7.8
01/40/NC-0493	VILL OF CLINTON	571	---	072866	1.43	80	36	5.9	--	364	0	16	7.0	.2	5.3	404	349	7.6
				010124	.30	--	--	--	--	371	--	--	24	--	--	290	293	--
01/12/24-0496	BELOIT CORP	157	GLACIAL	110372	.06	77	27	5.2	1.6	326	0	37	10	.1	20	376	300	7.4
				051572	.02	72	36	3.8	1.7	305	0	39	20	.2	27	392	330	7.8
RUSK COUNTY																		
34/06/02-0001	CITY LADYSMITH	96	GLACIAL	072066	1.18	45	13	7.1	--	168	--	17	14	.2	7.1	252	168	8.0
34/06/02-0003	CITY LADYSMITH	104	GLACIAL	072066	.06	48	16	5.4	--	149	--	31	22	.2	9.7	276	187	7.5
				051446	.00	36	10	--	--	117	0	25	15	.1	--	194	120	6.8
34/06/02-0004	CITY LADYSMITH	76	GLACIAL	072066	.29	45	14	51	--	183	--	17	7.0	--	2.2	252	170	8.2
				051446	.10	34	10	--	--	151	0	12	6.5	.2	--	176	116	7.2
35/06/34-0005	CITY LADYSMITH	68	GLACIAL	051446	1.30	25	5.5	--	--	76	0	15	13	.1	--	152	90	6.0
35/03/14-0006	VIL OF HAWKINS	117	GLACIAL	072166	.11	37	14	8.4	--	198	--	7.0	2.2	.3	1.8	206	152	8.1
34/07/05-0008	VIL OF BRUCE	72	GLACIAL	072066	.53	37	11	12	--	153	--	11	15	.1	8.0	220	138	8.0
				051546	1.24	36	11	--	--	173	0	18	31	.1	--	246	146	7.2
35/03/15-0016	VIL OF HAWKINS	74	GLACIAL	110449	19.68	--	--	--	--	97	0	--	--	--	--	--	74	6.6
33/08/31-0034	ROBERT JOHNSON	86	GLACIAL	052567	1.20	--	--	--	--	268	0	11	2.0	--	.1	229	220	8.1
34/07/05-0059	VIL OF BRUCE	74	GLACIAL	072066	2.34	37	11	9.1	--	143	--	10	17	.1	5.8	214	138	7.9
33/05/26-0060	SHELDON CREAMRY	79	GLACIAL	052667	.70	--	--	--	--	184	0	14	7.0	--	.2	186	165	7.9

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
RUSK COUNTY (CONTINUED)																		
35/04/20-0065	RUSK CTY HOME	106	GLACIAL	061162	1.40	53	13	--	--	244	0	--	--	--	1.3	234	188	7.9
				050362	.54	--	--	--	--	--	0	--	--	--	--	--	188	7.4
35/06/34-0091	CITY LADYSMITH	89	GLACIAL	072066	.77	33	8.1	3.0	--	135	--	5.0	3.3	.2	1.8	164	116	7.8
				062860	.70	30	7.8	2.9	--	139	0	.0	2.0	.2	--	152	110	7.6
				041159	.62	73	37	--	--	129	0	--	--	--	--	--	110	7.3
				041058	.62	74	37	--	--	129	0	--	--	--	--	--	108	7.6
				040958	.62	74	34	--	--	129	0	--	--	--	--	--	108	7.3
				040358	.62	74	--	--	--	129	0	--	--	--	--	--	109	7.5
36/09/05-0095	ROBERT SAUER	51	GLACIAL	052567	2.65	--	--	--	--	168	0	16	12	--	.4	172	165	8.0
34/09/24-0097	WEYERHAUSER VIL	94	GLACIAL	072066	2.50	37	12	3.7	--	171	0	3.0	1.4	.2	1.8	188	142	7.7
				031665	2.80	35	12	--	--	--	--	.9	1.0	.3	--	138	170	7.4
				040964	2.62	--	--	--	--	176	3	--	--	--	--	--	--	8.3
				040964	2.52	--	--	--	--	181	3	--	--	--	--	--	136	8.3
34/09/24-0104	WEYERHAUSER VIL	95	GLACIAL	111463	2.70	34	16	--	--	183	0	.0	5.0	.0	.0	265	140	7.6
ST. CROIX COUNTY																		
29/16/30-0003	BALDWIN COOP	407	SANDSTONE	071466	.06	43	17	3.3	--	201	0	8.0	3.4	.2	5.8	220	180	7.9
29/17/27-0009	VIL OF HAMMOND	440	SANDSTONE	071366	.57	--	--	2.3	--	--	0	--	--	--	8.4	--	--	7.8
				072664	.07	38	17	--	--	171	0	8.0	1.5	.2	9.2	194	164	7.8
29/20/25-0010	CITY OF HUDSON	382	MULTIPLE	071366	.91	47	19	9.4	--	226	0	11	10	.2	2.7	240	195	7.7
				082757	.00	48	18	--	--	232	0	8.0	14	.1	.2	240	196	7.8
				051046	.20	45	19	--	--	232	0	14	12	.0	--	224	172	7.4
31/18/02-0011	CITY N RICHMOND	802	SANDSTONE	062966	.49	44	19	1.8	--	210	0	15	.7	.2	1.8	194	190	7.7
				082449	.30	--	--	--	--	--	0	--	.4	--	--	--	200	7.3
				060446	.20	48	16	--	--	232	0	18	2.5	.1	--	212	186	7.3
31/18/36-0012	CITY N RICHMOND	802	SANDSTONE	062966	.12	48	24	1.8	--	257	0	15	.7	.2	1.8	228	221	7.7
				112762	3.56	47	20	--	--	234	0	6.5	.0	.9	1.1	218	200	7.5
				082449	.50	--	--	--	--	--	0	--	.0	--	--	--	228	7.5
				033147	.70	49	19	--	--	271	0	6.5	4.0	.0	--	332	225	7.8
31/19/35-0015	VIL OF SOMERSET	363	SANDSTONE	063066	1.15	51	17	4.7	--	233	0	10	2.8	.2	1.8	196	199	7.6
29/19/30-0016	CITY OF HUDSON	543	SANDSTONE	071366	1.24	53	19	22	--	237	0	16	32	.2	1.8	300	211	7.7
				082757	.74	46	19	--	--	227	0	9.5	8.5	.1	--	228	195	7.8

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
ST. CROIX COUNTY (CONTINUED)																		
				062353	.20	44	20	2.0	--	217	0	13	4.5	.1	--	210	196	7.4
29/18/22-0017	VIL OF ROBERTS	302	DOL-SS	071366	.06	37	19	2.3	--	187	0	6.0	1.6	.1	8.9	206	170	8.0
				041957	.05	36	19	2.7	.5	197	0	11	1.0	.0	5.2	183	168	7.2
29/17/25-0020	VIL OF BALDWIN	410	SANDSTONE	071466	.06	45	19	4.4	--	212	0	9.0	4.6	.2	7.5	236	192	7.8
29/20/24-0022	CITY OF HUDSON	382	SANDSTONE	082757	.70	46	18	--	--	232	0	5.0	4.5	.1	.3	214	192	7.8
				051046	.20	45	19	--	--	239	0	9.5	7.0	.1	--	210	165	7.2
28/20/13-0026	STANLEY POND	284	GLACIAL	060568	.06	52	24	--	--	238	0	16	3.0	--	15	246	228	7.9
28/19/14-0028	HERMAN HERZFELD	200	DOL-SS	060568	.06	60	26	--	--	272	0	17	3.0	--	18	280	257	7.8
28/16/32-0041	JACK LAVELLE	167	DOL-SS	060468	.13	49	19	--	--	224	0	11	4.0	--	6.8	218	200	8.0
29/16/35-0044	VIL WOODVILLE	216	SANDSTONE	071466	.68	46	22	4.2	--	211	0	16	6.5	.1	14	267	208	7.9
				010134	.00	--	--	--	--	212	--	11	12	--	13	238	215	--
28/15/36-0056	WALTER KARNES	192	SANDSTONE	100757	.90	--	--	--	--	--	--	--	--	--	--	--	268	--
29/20/13-0061	C NW RR SYSTEM	458	SANDSTONE	010111	2.60	45	16	--	--	--	--	15	12	--	--	216	--	--
				010111	6.10	46	20	--	--	--	--	17	11	--	--	222	--	--
31/19/35-0063	VIL OF SOMERSET	280	SANDSTONE	063066	.13	47	--	3.7	--	221	0	9.0	1.2	.1	1.8	224	174	7.5
30/19/21-0071	WISSOTA CHEESE	205	SANDSTONE	100957	1.00	39	14	--	--	185	0	2.0	--	.0	7.4	182	162	8.0
31/18/05-0080	WILLIAM PEICK	97	GLACIAL	060369	.14	61	29	--	--	304	0	11	6.0	--	17	300	271	7.9
29/18/05-0086	MURPHY AND ROLF	55	DOL-SS	060768	.09	71	22	--	--	238	4	26	16	--	56	348	268	8.4
30/17/31-0088	ALVIN HIEMSTRAL	94	DOL-SS	060668	.11	72	35	--	--	280	0	24	15	--	60	374	324	8.2
30/16/31-0090	RICH ROSENDAL	193	DOL-SS	060669	.18	44	16	--	--	206	0	9.2	3.0	--	2.6	174	176	8.0
31/16/25-0094	CYLON METH CHUR	73	DOL-SS	060668	.13	35	17	--	--	172	0	6.0	3.0	--	14	177	158	7.9
31/16/08-0095	VIL DEER PARK	115	GLACIAL	101157	1.00	50	16	3.0	--	233	0	2.0	--	.1	4.4	230	198	7.8
28/19/36-0099	CITY RIVER FALS	508	SANDSTONE	071366	.23	51	20	2.1	--	229	0	15	1.3	.2	1.8	238	210	7.8
				052946	.10	48	18	--	--	234	--	16	1.4	.1	--	214	190	--
				010114	--	90	11	--	--	140	--	124	--	--	--	337	245	--
31/15/26-0100	WM SWANEPOEL	160	DOL-SS	060669	.48	64	25	--	--	286	0	13	8.0	--	21	286	263	7.7

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
ST. CROIX COUNTY (CONTINUED)																		
29/20/25-0109 CITY OF HUDSON		522	SANDSTONE	071366	.91	47	18	7.7	--	209	0	16	9.0	.2	1.8	240	191	8.0
30/18/03-0112 CITY N RICHMOND		395	SANDSTONE	062966	.06	51	19	3.0	--	237	0	6.0	2.6	.2	2.7	214	207	7.6
				112762	1.55	45	18	--	--	229	0	4.5	.0	.0	.5	206	188	7.5
29/20/13-0113 CITY OF HUDSON		504	SANDSTONE	071266	.34	41	16	6.6	--	198	0	15	2.4	.2	1.8	216	170	7.8
28/18/04-0125 HORACE TRESSELT		194	DOL-SS	060568	.49	82	36	--	--	400	0	27	10	--	7.8	390	353	7.4
29/19/33-0126 ROBERT ENLOE		125	GLACIAL	060568	.20	59	26	--	--	270	0	17	6.0	--	24	290	254	7.8
31/19/07-0127 CAMP CLEARWATER		144	SANDSTONE	060368	.12	54	20	--	--	256	0	8.0	2.0	--	7.7	240	217	7.6
30/15/26-0131 GLENWOOD CITY		245	SANDSTONE	071966	--	49	18	--	--	222	0	15	1.0	.2	1.8	216	199	7.7
30/15/26-0132 GLENWOOD CITY		502	SANDSTONE	071966	--	47	18	--	--	214	0	14	1.0	.1	1.8	198	193	7.8
SAUK COUNTY																		
10/06/01-0002 BADGER ORD WORK		471	MULTIPLE	050150	.20	50	26	--	--	256	0	13	9.0	.1	--	224	222	7.4
10/06/03-0003 BADGER ORD WORK		451	SANDSTONE	102048	.10	45	20	--	--	251	0	5.0	2.0	.1	--	218	205	7.3
10/06/14-0005 BADGER ORD WORK		553	SANDSTONE	102048	.60	49	22	--	--	256	0	12	5.0	.2	--	250	215	7.3
09/06/12-0008 CITY SAUK CITY		525	SANDSTONE	111565	1.25	57	35	--	--	--	0	15	3.0	--	--	--	288	7.3
				011145	.00	58	34	--	--	337	0	8.0	6.0	.1	--	304	315	7.3
09/06/12-0010 WIS DAIRY COOP		532	SANDSTONE	042772	.06	71	26	4.6	1.9	330	0	9.4	4.0	.1	.6	275	280	7.4
				111870	.21	74	23	4.0	1.8	338	0	16	3.0	.3	.2	286	280	7.5
				051067	.05	60	33	4.4	1.9	342	0	11	5.0	.1	.2	281	285	7.6
				062166	.00	60	31	5.2	1.5	336	0	10	4.0	.1	.8	273	60	7.9
				060465	.05	57	35	3.9	1.6	331	0	16	4.0	.2	.4	292	286	7.3
				101454	.03	60	29	3.9	1.9	328	0	8.8	2.0	.2	.5	276	270	8.2
10/06/15-0011 ST IDA CONVENT		625	MULTIPLE	092172	.02	46	21	3.0	2.6	230	0	11	4.0	.2	.6	212	200	7.7
				050472	.09	45	21	3.0	2.2	230	0	9.6	2.0	.2	.1	213	200	7.8
03/04/07-0018 VIL SPRING GREN		424	SANDSTONE	072066	.52	59	27	6.0	--	303	0	15	6.0	.1	1.8	278	258	7.7
				032563	.76	64	27	--	--	317	0	13	6.0	.0	.1	298	270	7.3
				091947	.40	64	30	--	--	339	0	16	10	.1	--	302	270	7.2
				010945	.00	31	11	--	--	96	0	28	10	.1	--	188	142	7.2
				010945	.20	36	11	--	--	98	0	26	10	.1	--	186	140	7.4

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
SAUK COUNTY (CONTINUED)																		
11/06/01-0023 CITY OF BARABOO		300	SANDSTONE	062266	.06	62	28	2.0	--	300	0	11	2.0	.2	10	322	272	7.4
				070863	.06	62	29	--	--	334	0	8.0	1.0	.1	13	290	276	7.3
				011245	.00	58	30	--	--	320	0	5.5	9.5	.1	--	312	292	7.3
				011245	.00	60	32	--	--	310	0	13	6.1	.1	--	306	330	7.5
11/06/01-0024 CITY OF BARABOO		121	GLACIAL	062266	2.74	67	33	3.0	--	337	0	15	3.0	.2	4.0	352	305	7.4
				070863	.71	66	34	--	--	349	0	10	4.0	.1	5.0	308	304	7.3
				071045	.52	64	32	--	--	346	0	11	9.0	.1	--	304	310	7.3
				011245	.00	60	30	--	--	312	0	13	3.5	.1	--	300	270	7.3
09/06/01-0026 VIL PRARIE D SC		130	GLACIAL	071466	.06	52	27	2.0	--	237	0	9.0	4.0	.1	30	444	241	7.8
				011245	.00	48	24	--	--	234	0	9.0	5.0	.1	--	232	245	--
12/05/32-0029 VIL ROCK SPRING		240	SANDSTONE	082163	.10	20	9.0	--	--	92	0	5.0	5.0	.0	8.4	128	88	6.5
				011145	.00	15	7.0	--	--	56	0	3.5	11	.1	--	105	87	6.3
13/03/22-0033 VIL OF LAVALLE		312	---	080865	.06	18	7.0	2.0	--	82	0	6.0	1.0	.1	9.3	80	76	6.9
				072959	.05	18	7.9	--	--	--	0	3.5	2.0	.1	--	114	78	6.5
10/06/36-0043 VIL PRARIE D SC		162	GLACIAL	071466	.06	58	27	2.0	--	270	0	13	2.0	.1	23	364	259	7.8
				070259	.40	56	32	--	--	--	0	7.5	2.5	.1	--	274	250	7.8
09/06/12-0046 CITY SAUK CITY		130	GLACIAL	071466	.06	59	29	4.0	--	256	0	15	8.0	.0	30	438	256	7.9
				101565	.04	55	29	--	--	--	--	15	9.0	.1	31	278	256	7.9
				112355	.00	51	25	--	--	256	0	11	5.0	--	--	276	248	7.5
				071955	.00	53	24	--	--	254	0	9.0	5.0	.1	--	296	241	7.3
12/04/10-0047 CITY REEDSBURG		490	SANDSTONE	062166	.19	25	8.0	7.0	--	56	0	35	10	.2	37	216	98	6.0
				112956	--	24	10	--	--	--	--	22	3.0	.1	--	156	107	6.7
10/07/07-0050 VIL OF MERRIMAC		235	GLACIAL	062266	.06	55	31	2.0	--	304	0	11	.0	.1	3.5	304	264	7.5
				101565	.14	55	31	--	--	--	--	11	.0	.1	3.7	262	264	7.4
				020960	.20	54	28	--	--	281	0	9.5	1.0	.1	--	268	248	7.5
12/06/36-0051 CITY OF BARABOO		375	SANDSTONE	062266	.06	57	25	2.0	--	293	0	3.0	.6	.2	1.8	278	248	7.4
				070963	.10	55	28	--	--	307	0	2.0	1.0	.1	.5	248	254	7.3
				070262	.08	54	27	--	--	310	0	1.5	.0	--	.1	248	246	7.5
				101360	.04	--	--	--	--	313	2	--	--	--	--	--	247	8.3
				011245	.00	53	32	--	--	329	0	16	8.0	.1	--	314	290	7.3
10/06/36-0057 VIL PRARIE D SC		30	---	011245	.00	56	28	--	--	264	0	15	6.0	.1	--	274	256	--
12/06/17-0070 HELEN SIGMAN		310	GLACIAL	010665	.49	--	--	--	--	232	0	3.3	5.0	--	7.2	192	199	7.8
11/06/01-0074 CITY OF BARABOO		60	---	062266	.05	65	32	--	--	342	0	22	8.7	.1	--	322	348	7.3

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
SAUK COUNTY (CONTINUED)																		
				070863	.06	72	34	--	--	334	--	25	6.0	.0	3.0	--	322	7.3
				011245	.00	60	32	--	--	310	0	13	6.2	.1	--	98	300	7.5
09/06/03-0080	MOREY J PIERCE	245	SANDSTONE	123164	2.48	--	--	--	--	292	0	8.4	6.0	--	.4	242	248	7.6
09/06/03-0113	SPRECHER+TRAGER	206	GLACIAL	123164	.32	--	--	--	--	270	0	6.8	8.0	--	14	238	240	7.9
08/03/01-0119	DON OCONNOR	35	GLACIAL	122964	.26	--	--	--	--	50	0	20	12	--	44	143	102	6.7
08/03/01-0120	HAROLD HASLOW	28	GLACIAL	122964	.95	--	--	--	--	24	0	8.4	6.0	--	16	63	40	6.8
12/07/01-0121		20	GLACIAL	010665	13.28	--	--	--	--	118	0	.8	3.0	--	1.4	146	92	6.8
12/04/10-0126	CITY REEDSBURG	400	SANDSTONE	062166	1.26	36	13	6.0	--	116	0	35	8.0	.2	14	216	144	7.0
				031565	.96	42	21	--	--	--	0	1.0	1.0	.1	--	186	192	7.3
11/04/08-0129	VIL LOGANVILLE	300	SANDSTONE	041668	.09	45	22	2.0	--	234	0	2.0	3.0	.1	3.1	202	204	8.2
11/03/08-0134	EVERETT RIEDEL	452	SANDSTONE	102070	.15	46	24	1.2	.7	240	0	14	2.0	.2	5.2	217	210	8.2
10/04/03-0135	PAUL WIESE	380	SANDSTONE	102070	.18	29	13	3.2	.4	154	0	3.8	2.0	.1	6.9	147	130	7.8
09/03/08-0136	EMIL SCHWANZ	114	SANDSTONE	102672	.06	67	36	5.4	1.0	276	14	23	16	.1	19	318	320	8.5
				042772	.20	88	27	5.9	1.0	340	0	19	16	.1	25	357	330	7.5
				102070	.18	68	37	5.3	1.1	316	0	24	16	.1	32	338	320	7.6
13/02/29-0138	ED HAZELBURGER	226	---	111870	.09	52	25	2.3	.5	254	0	14	3.0	.4	12	222	230	7.6
SAWYER COUNTY																		
41/09/27-0001	CITY OF HAYWARD	243	SANDSTONE	071466	1.29	--	--	2.9	--	--	0	--	--	--	.4	--	--	7.3
				030365	1.24	33	11	--	--	156	0	.9	1.0	.2	.4	144	128	7.5
				052146	1.02	33	7.1	--	--	165	0	1.0	4.0	.1	--	158	112	7.3
41/09/27-0002	CITY OF HAYWARD	334	SANDSTONE	071466	1.69	--	--	2.8	--	--	--	--	--	--	.4	--	--	7.5
				020365	1.56	34	11	--	--	161	0	.9	1.0	.2	.4	158	132	7.8
				052146	1.02	34	8.0	--	--	165	0	1.0	3.0	.1	--	150	110	7.3
41/09/15-0003	HAYW MEM HOSP	304	PRECAMB.	030545	.40	31	7.1	--	--	129	0	2.5	12	.2	--	152	104	--
42/09/25-0004	A HENDEE	66	GLACIAL	060368	.09	38	10	--	--	174	0	7.6	1.0	--	.1	161	136	8.0
39/08/06-0009	US BUR IND AFF	52	PRECAMB.	081358	2.00	35	14	--	--	176	0	3.0	.5	.2	--	188	136	7.7

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MM	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
SAWYER COUNTY (CONTINUED)																		
42/08/15-0012	SEELEY TWN HALL	92	GLACIAL	060368	1.13	22	7.8	--	--	108	0	5.2	2.0	--	.1	94	87	8.2
39/05/32-0022	VIL OF WINTER	40	GLACIAL	111767	4.80	29	7.0	7.7	--	93	0	6.0	20	.2	2.3	162	100	6.8
				030465	3.20	23	3.0	--	--	59	0	--	11	.2	4.4	124	68	6.4
41/06/06-0023	FRANK ZIEMANN	42	GLACIAL	052467	.13	--	--	--	--	46	0	6.0	1.0	--	.4	68	36	7.4
40/09/21-0025	ROBERT SIMONSON	112	GLACIAL	052467	.95	--	--	--	--	53	0	1.2	1.0	--	.1	67	38	6.9
38/08/04-0032	US BUR IND AFF	21	GLACIAL	081958	.90	16	11	--	--	17	0	6.0	23	.1	--	134	50	6.2
37/08/16-0037	TWN OF METEOR	45	GLACIAL	052567	.82	--	--	--	--	118	0	9.8	2.0	--	.3	143	95	8.2
37/06/27-0039	JOHN HAGDAZZ	30	GLACIAL	052567	.04	--	--	--	--	126	0	6.0	3.0	--	4.7	160	105	8.2
39/04/03-0047	E H PROTSMAN	87	GLACIAL	082258	.64	39	12	--	--	193	0	.8	1.0	.2	--	184	147	7.4
41/09/21-0052	HAYWARD CIV CLB	75	GLACIAL	060368	4.75	27	4.4	--	--	112	0	1.6	2.0	--	.8	125	86	7.4
39/05/32-0053	VIL OF WINTER	86	GLACIAL	071866	.26	32	9.1	3.7	--	145	--	4.0	.7	.1	1.8	152	118	8.2

SHEBOYGAN COUNTY

13/23/06-0002	VIL OF OOSTBURG	360	NIAGARA	062266	.47	142	46	32	--	173	0	410	9.4	.6	1.8	844	547	7.5
15/21/28-0003	CITY PLYMOUTH	93	MULTIPLE	062066	.06	85	38	5.9	--	373	0	28	18	.0	4.4	394	362	7.2
				022164	.44	82	38	--	--	371	0	28	18	.0	5.8	394	362	7.2
13/22/24-0006	VIL CEDAR GROVE	570	NIAGARA	062166	.35	99	28	26	--	195	0	230	3.7	1.0	1.8	556	362	7.6
16/21/20-0008	VIL ELKHART LAK	526	MULTIPLE	071166	.71	58	37	5.6	--	332	0	15	5.8	.1	1.8	326	300	8.0
				061345	.40	54	34	--	--	336	0	9.5	7.5	.1	--	294	310	7.9
15/23/32-0012	VIL OF KOHLER	440	NIAGARA	062066	.09	90	32	25	--	166	0	230	13	2.2	1.8	546	360	7.5
				091247	.00	94	41	--	--	185	0	235	20	.5	--	602	340	7.4
15/23/29-0014	VIL OF KOHLER	460	NIAGARA	062066	.22	133	39	21	--	168	0	340	14	.7	2.2	724	496	7.4
				091247	.00	101	52	--	--	209	0	350	15	.5	--	776	500	7.3
13/23/06-0016	VIL OF OOSTBURG	275	NIAGARA	062266	.21	115	36	54	--	122	0	380	5.6	.8	1.8	740	434	7.6
				022146	.10	119	36	--	--	139	0	460	8.5	.8	--	776	455	7.5
13/21/34-0020	VIL RANDOM LAKE	536	NIAGARA	090266	.22	112	34	6.1	--	329	0	165	5.0	.4	.4	560	420	7.6

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
SHEBOYGAN COUNTY (CONTINUED)																		
				062266	.29	180	35	6.2	--	305	0	340	4.0	.6	.6	822	595	7.2
				030466	.30	180	35	6.2	1.2	305	0	340	4.0	.6	.4	822	595	7.2
				111645	.10	130	38	--	--	312	0	290	7.0	.4	--	700	520	7.5
15/23/36-0025	CITY SHBYGAN FS	115	NIAGARA	052945	.10	--	--	--	--	239	0	600	202	.5	--	1400	--	7.3
15/22/36-0026	CITY SHBYGAN FS	611	MULTIPLE	052945	.15	280	76	--	--	212	0	600	355	.4	--	1840	1000	7.3
15/20/01-0033	VIL GLENBEULAH	430	NIAGARA	090266	.10	60	32	1.5	--	310	0	18	4.5	.1	1.8	294	282	7.6
				062066	.06	61	35	1.7	--	305	0	18	3.0	.1	4.0	300	297	7.5
13/21/35-0034	VIL RANDOM LAKE	555	NIAGARA	090266	.40	224	42	5.7	--	298	0	510	4.0	.7	.4	1030	735	7.3
				062266	.49	166	44	6.9	--	292	0	340	4.0	.6	.4	792	595	7.0
				030466	1.44	166	44	6.9	1.3	292	0	340	4.0	.6	.5	792	595	7.0
16/21/20-0039	VIL ELKHART LAK	525	MULTIPLE	071166	.20	79	47	14	--	414	0	52	15	.1	1.8	496	393	7.8
15/23/23-0045	CITY SHEBOYGAN	1475	DOL-SS	041272	2.79	1200	180	2000	75	154	0	1900	4100	1.9	.7	9920	3700	6.9
				060266	1.00	1060	198	2070	48	149	0	1960	4020	1.8	--	10400	3460	7.0
				041565	3.28	1070	201	2020	54	155	0	1980	4100	1.1	6.8	9950	3500	7.4
				082464	2.91	1060	206	2200	--	151	0	2060	4380	--	.0	--	3500	6.7
				083056	1.40	1060	153	2160	--	157	0	1400	4090	2.1	--	10400	3500	6.8
				010847	1.60	783	201	2170	--	159	0	2000	4070	--	--	10000	2980	6.9
				080109	.60	342	81	896	20	--	--	673	1270	--	--	3540	--	--
				020107	.30	203	59	864	3.3	--	--	514	1220	--	--	3080	--	--
				010175	2.70	1080	239	2060	13	--	--	2050	4310	--	--	10100	--	--
15/23/29-0046	KOHLER CO	496	NIAGARA	081247	.00	87	37	--	--	234	0	180	10	.4	--	516	310	7.5
15/21/29-0047	CITY PLYMOUTH	98	GLACIAL	062066	.06	80	38	2.3	--	361	0	44	4.3	.0	5.8	386	360	7.4
				022164	.84	82	38	--	--	361	0	44	5.5	.0	9.1	386	360	7.4
				051651	.00	74	40	--	--	414	0	51	6.0	.0	--	382	280	7.4
15/21/29-0043	CITY PLYMOUTH	98	GLACIAL	062066	.06	72	38	2.1	--	359	0	28	4.5	.1	4.4	364	340	7.4
				022164	.44	74	38	--	--	359	0	28	6.0	.1	5.8	364	340	7.4
				051651	.00	72	37	--	--	406	0	45	6.0	.0	--	364	282	7.8
15/21/23-0049	CITY PLYMOUTH	250	GLACIAL	062066	.06	76	39	3.9	--	364	0	26	9.5	.4	14	372	350	--
				022164	.67	76	39	--	--	364	0	26	6.5	.0	15	372	350	7.4
				051651	.00	81	40	--	--	356	0	59	7.5	.0	--	440	366	7.5
15/21/23-0050	CITY PLYMOUTH	250	GLACIAL	062066	.06	97	43	11	--	366	0	88	11	.1	16	470	400	7.4
				022164	.64	97	43	--	--	366	0	88	17	.1	16	470	400	7.4
				051651	.00	109	44	--	--	344	0	165	19	.1	--	640	450	7.2
				070249	.00	76	28	--	--	349	0	55	8.0	.1	--	342	335	7.4

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
SHEBOYGAN COUNTY (CONTINUED)																		
15/23/22-0053 BORNE SANITARUM	1402	---		010175	4.70	1050	311	2490	89	121	--	2150	5100	--	--	11400	--	--
				010170	--	1110	760	--	--	--	--	2050	4040	--	--	10400	--	--
13/22/24-0054 VIL CEDAR GROVE	537	MULTIPLE		062166	.25	124	40	23	--	207	0	310	5.8	.8	1.8	752	478	7.4
16/23/04-0057 PLASTIC ENGR CO	350	NIAGARA		072765	2.74	--	--	--	--	259	0	--	16	--	.0	--	336	7.4
15/20/31-0059 WISC BOYS SCHOL	352	NIAGARA		102772	.29	50	32	5.3	1.4	312	0	10	1.0	.2	1.4	244	260	7.9
				010665	.08	--	--	--	--	271	--	--	--	--	--	--	298	--
				102763	.20	--	--	--	--	300	0	--	--	--	--	--	288	7.5
				020663	1.57	61	31	--	--	298	0	39	--	.1	.4	372	282	7.4
15/21/31-0060 WISC BOYS SCHOL	352	NIAGARA		021563	.08	55	31	--	--	312	0	14	3.0	--	--	--	266	7.6
				092062	.08	52	29	--	--	296	0	5.0	.4	.0	--	260	250	7.3
14/21/14-0063 VIL OF WALDO	382	NIAGARA		052266	1.01	91	38	6.8	--	349	0	90	2.0	.3	1.8	446	386	7.6
				092663	.54	76	37	--	--	339	0	54	1.0	.2	--	388	344	7.6
				051763	--	--	--	6.0	--	--	--	40	2.0	--	--	--	342	--
13/21/02-0073 VILL OF ADELL	445	NIAGARA		062266	.14	95	46	3.9	--	366	0	92	6.5	.2	1.8	508	402	7.5
15/21/16-0075 CITY PLYMOUTH	490	NIAGARA		110963	.02	--	--	--	--	210	2	56	3.0	--	--	--	--	8.4
15/21/16-0076 CITY PLYMOUTH	430	MULTIPLE		062066	.06	60	32	1.9	--	310	0	24	2.0	.2	1.8	286	282	7.5
				013166	.07	60	32	3.2	.8	310	0	24	2.0	.2	4.4	286	282	7.5
15/21/20-0077 CITY PLYMOUTH	465	NIAGARA		013167	.26	129	43	13	--	268	0	290	12	.5	1.8	686	500	7.5
				062066	.06	143	42	13	--	278	0	300	10	.6	1.8	776	533	7.4
16/22/20-0078 LAKELAND COLLEGE	275	NIAGARA		101668	.08	41	32	14	1.3	296	0	15	2.0	.2	.8	272	234	7.9
13/20/02-0144 H DURACKER	99	NIAGARA		101668	2.83	--	--	--	--	400	0	6.0	2.0	--	.0	312	332	8.2
16/22/02-0145 ROBERT KLOKOW	193	NIAGARA		101668	1.82	--	--	--	--	316	0	106	6.0	--	.2	402	358	7.5
15/22/08-0146 CARL P HOLZER	104	NIAGARA		101668	.86	--	--	--	--	228	0	37	2.0	--	.2	248	180	7.9
15/22/35-0147 CITY SHBYGAN FS	--	---		052945	.30	230	62	--	--	217	0	600	40	.5	--	1250	830	7.3
				010135	.20	--	--	--	--	195	--	752	131	--	--	1530	1210	--
15/22/36-0152 CITY SHBYGAN FS	--	---		022146	.40	74	37	--	--	325	0	108	13	.2	--	434	380	7.5
16/21/20-0153 VIL ELKHART LK	42	GLACIAL		051908	--	110	42	39	--	443	--	38	87	--	--	--	--	--
15/22/35-0154 RICHARDSON BROS	187	---		092546	.20	76	33	--	--	206	0	235	8.5	.3	--	--	320	7.5

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED.

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
SHEBOYGAN COUNTY (CONTINUED)																		
15/22/36-0156 H GIDDINGS		1200	DOL-SS	010135	3.20	1040	198	1430	52	242	--	1730	3140	--	--	7830	3210	--
TAYLOR COUNTY																		
31/04/13-0001 VIL OF GILMAN		24	GLACIAL	072666	6.20	27	10	5.1	--	116	0	6.0	13	.3	1.8	164	109	7.8
				102158	5.40	28	11	--	--	132	0	5.5	1.0	.3	--	180	115	--
31/04/13-0002 VIL OF GILMAN		21	GLACIAL	051245	2.20	38	13	--	--	189	0	13	5.0	.3	--	186	225	6.8
33/02/30-0009 WIS HWY COMM		160	GLACIAL	052667	.43	--	--	--	--	134	0	2.8	2.0	--	.2	126	100	8.1
33/03/07-0011 STATE HWY DEPT		48	GLACIAL	052667	.41	--	--	--	--	160	0	9.6	8.0	--	4.2	162	145	7.9
33/01/25-0015 U S FOREST SERV		40	GLACIAL	052467	3.60	--	--	--	--	92	2	4.8	1.0	--	.0	98	70	9.3
31/04/13-0018 VIL OF GILMAN		36	GLACIAL	011168	.62	35	13	6.2	--	151	0	6.0	10	.2	.7	200	140	7.1
33/03/04-0173 LOUIS HEISER JR		63	GLACIAL	060271	.43	35	9.3	5.1	1.2	162	0	6.0	1.0	.4	.6	160	130	7.3
31/02/11-0225 G H SCHROEDER		126	GLACIAL	032370	.94	31	8.5	--	--	148	0	9.2	.5	--	.8	140	112	8.0
32/01/24-0226 MRS C BRANDNER		115	PRECAMB.	032370	3.51	43	14	--	--	222	0	4.0	1.4	--	.7	184	165	7.5
TREMPEALEAU COUNTY																		
19/09/25-0002 CITY TREMPLEAU		126	GLACIAL	072766	.06	40	11	2.3	--	129	0	14	1.3	.2	2.2	178	146	7.9
22/08/26-0003 CITY WHITEHALL		233	SANDSTONE	072666	6.60	30	9.8	3.1	--	127	0	17	2.8	.5	1.9	154	116	7.4
				072663	5.90	20	7.0	--	--	89	0	13	.5	.6	--	130	80	6.7
24/09/09-0004 VIL OF ELEVA		203	SANDSTONE	080166	6.22	15	4.9	1.3	--	61	0	16	.9	.4	1.8	82	58	6.8
				101464	5.74	--	--	--	--	--	--	--	--	--	--	--	--	--
				101464	7.20	--	--	--	--	--	--	--	--	--	--	--	96	--
				081764	3.60	--	--	--	--	73	--	--	--	--	--	--	56	7.1
				022559	5.16	15	7.0	--	--	61	0	13	2.0	.4	--	96	57	6.9
				020956	6.70	14	5.1	--	--	71	0	7.0	1.0	.4	--	96	57	6.8
				081252	7.84	12	4.6	--	--	63	0	11	4.0	.4	--	86	63	6.6
				083150	6.28	14	6.5	--	--	61	--	12	3.0	.4	--	92	78	6.8
24/07/10-0006 VIL OF OSSEO		170	SANDSTONE	080266	.19	12	1.3	1.9	--	27	0	11	1.3	.2	8.0	--	38	6.7
				082064	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SC 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
TREMPEALEAU COUNTY (CONTINUED)																		
				072666	2.72	40	10	3.3	--	172	0	18	2.2	.3	1.8	166	142	7.5
				012165	2.72	39	12	--	--	154	0	13	2.0	.5	.7	174	144	6.8
				050360	2.30	39	14	3.7	--	168	0	16	3.5	.3	3.5	190	150	7.4
				120759	2.72	38	14	--	--	164	0	16	3.0	.3	--	184	146	7.4
20/07/31-0035 CITY ETTRICKICK		246	SANDSTONE	072566	3.22	27	11	1.8	--	124	0	18	.9	.3	1.8	128	114	7.3
24/08/19-0036 STRUM VILLAGE		119	SANDSTONE	080166	1.66	10	4.6	.9	--	38	0	14	.7	.2	1.8	64	44	6.7
				011066	2.74	10	3.6	1.4	1.0	37	0	14	.0	.4	1.4	68	40	6.2
				052465	1.33	--	--	--	--	--	--	--	--	.2	--	--	46	--
24/07/10-0039 VIL OF OSSEO		215	SANDSTONE	080266	1.34	18	10	2.4	--	62	0	12	1.0	.6	1.8	106	67	6.7
				062564	2.10	--	--	--	--	--	--	--	--	--	--	--	--	--
24/07/24-0044 STATE HWY COMM		235	SANDSTONE	110865	3.40	5.0	--	--	--	26	0	6.0	--	--	.1	110	24	6.3
				080565	13.88	--	--	--	--	--	--	--	--	--	--	--	52	--
21/07/16-0045 VIL OF BLAIR		252	SANDSTONE	120567	10.37	10	3.6	1.6	--	54	0	1.5	.5	.2	.8	100	40	6.6
				110365	5.16	--	--	--	--	49	0	--	.5	--	.0	74	38	6.5
				110365	4.66	--	--	--	--	49	0	--	.0	--	.0	74	40	6.5
				110365	4.84	--	--	--	--	49	0	--	.0	--	--	94	40	6.5
				110365	5.00	--	--	--	--	49	0	--	.5	--	.4	96	40	6.5
19/08/32-0046 CITY GALESVILLE		442	SANDSTONE	092965	3.22	--	--	--	--	--	--	--	--	--	.3	--	160	8.3
				092865	3.22	--	--	--	--	--	--	--	--	--	.5	--	155	8.1
				092865	2.62	--	--	--	--	--	--	--	--	--	.3	--	160	8.2
				092865	3.44	--	--	--	--	--	--	--	--	--	.3	--	165	8.2
21/09/32-0051 VIL ARCADIA		376	---	040645	1.96	56	13	--	--	243	0	26	8.0	.2	--	240	240	7.2
				010135	1.25	--	--	--	--	244	--	20	10	--	.0	247	210	--
22/09/26-0052 VIL INDEPENDENC		282	---	072666	2.94	28	12	2.2	--	137	0	21	.9	.4	1.8	136	122	8.1
				020956	2.84	28	11	--	--	137	0	10	1.0	.2	--	152	126	7.0
				112246	1.00	29	10	--	--	133	0	18	3.0	.3	--	148	108	6.9
				070135	2.20	--	--	--	--	117	0	14	2.0	--	.0	132	104	--
24/07/10-0053 VIL OF OSSEO		131	SANDSTONE	080266	5.10	15	4.7	1.9	--	68	0	10	2.7	.3	--	96	57	6.9
				091963	1.24	8.4	4.6	--	--	41	0	--	--	--	--	102	40	6.7
				011647	3.74	16	4.7	--	--	63	0	15	2.5	.4	--	92	68	6.7
				112246	.00	18	4.2	--	--	59	0	10	5.0	.5	--	78	58	7.1
				070135	3.00	--	--	--	--	63	0	11	3.0	--	.0	104	68	--
19/10/12-0054 PINE CREEK W W		--	---	082566	2.46	66	28	1.7	--	294	0	26	.9	.3	3.5	308	280	7.5
				042761	.53	65	29	--	--	307	0	32	.9	.2	2.6	288	284	7.2
				120546	.20	64	25	--	--	310	0	28	5.5	.1	--	286	310	7.3

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
TREMPEALEAU COUNTY (CONTINUED)																		
23/07/10-0057	ARNOLD HANSON	107	SANDSTONE	032370	.58	32	13	--	--	138	0	39	2.5	--	.5	158	134	7.2
19/10/10-0058	BEN BROMM	190	SANDSTONE	032470	1.16	--	--	--	--	410	0	59	3.6	--	.3	454	388	8.2
18/09/02-0059	ROBERT DELANEY	85	GLACIAL	032570	4.57	85	48	--	--	417	0	58	3.6	--	5.2	416	410	7.3
19/08/01-0060	JOSEPH W GERARD	130	SANDSTONE	032570	.23	12	4.8	--	--	52	0	5.8	2.1	--	4.6	--	50	7.2
22/08/21-0061	COUNTY HOSPITAL	--	SANDSTONE	121756	3.60	22	10	--	--	100	0	9.5	1.0	.2	--	126	93	7.4
22/08/21-0062	COUNTY HOSPITAL	--	SANDSTONE	121756	1.00	22	9.8	--	--	100	0	10	1.0	.2	--	114	93	7.4
21/08/33-0063	MYRON SCOW	122	SANDSTONE	041570	66.90	91	36	--	--	16	0	342	6.0	--	.5	546	375	5.2
VERNON COUNTY																		
14/06/33-0001	CHASEBURG COOP	202	SANDSTONE	022769	.07	--	--	--	--	285	0	--	--	.2	6.4	--	272	8.1
14/01/35-0010	VIL HILLSBORO	271	SANDSTONE	081066	.16	26	10	2.0	--	134	0	5.0	.9	.2	1.8	122	109	7.6
				092745	.10	20	9.0	--	--	--	0	5.0	5.0	.1	--	118	112	6.6
14/01/26-0011	VIL HILLSBORO	327	SANDSTONE	081066	.06	24	14	2.0	--	124	0	9.0	2.0	.2	7.1	134	119	7.0
				021650	.00	26	12	--	--	--	--	3.5	6.0	.2	--	--	125	6.6
14/02/03-0012	VIL OF ONTARIO	186	SANDSTONE	071266	.57	55	25	1.1	--	266	0	20	.8	.2	1.8	270	243	7.7
				102759	.60	54	30	--	--	281	0	23	.5	.1	--	264	252	7.9
				011954	.50	60	24	--	--	--	--	19	1.0	.2	--	260	252	--
14/07/21-0013	VIL OF STODDARD	152	SANDSTONE	071466	.06	64	31	2.0	--	338	0	13	2.1	.2	6.6	328	291	7.8
				032559	.04	63	35	--	--	337	0	12	3.5	.1	--	318	298	7.6
				100545	.00	71	30	--	--	339	0	8.5	4.5	.1	--	280	280	7.4
13/04/32-0015	CTY OF VIROQUA	506	SANDSTONE	071166	.06	37	20	4.2	--	166	0	15	6.0	.1	24	250	174	7.8
12/04/54-0016	CTY OF VIROQUA	530	SANDSTONE	071266	.19	51	28	8.1	--	223	0	17	18	.1	31	--	243	7.8
14/04/33-0013	CTY OF WESTBY	630	SANDSTONE	071266	.14	55	29	6.1	--	261	0	17	12	.1	25	--	259	7.7
14/4W/8 -0044	CITY WESTBY	330	---	070135	.00	--	--	--	--	207	0	5.0	6.0	--	22	226	225	--
14/04/29-0047	CTY OF WESTBY	1100	SANDSTONE	071266	.06	34	20	1.8	--	193	0	6.0	.4	.2	1.8	190	170	7.8
13/04/22-0051	VERNON CO HOSP	338	SANDSTONE	120661	.01	41	26	--	--	207	0	6	12	.0	28	248	342	7.5

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DEPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
VERNON COUNTY (CONTINUED)																		
13/04/31-0053	VILL OF VIROQUA	890	SANDSTONE	121566 062761	.08 .01	39 40	21 18	6.6 --	--	183 190	0 0	5.0 3.5	11 6.0	.2 .0	20 13	218 208	184 176	7.3 7.8
13/02/29-0068	VIL OF LAFARGE	417	SANDSTONE	071166 031764	.64 .32	47 44	25 23	9.0 --	--	237 234	0 0	25 --	1.0 .9	.1 .1	1.8 --	224 --	220 206	7.5 7.4
13/07/04-0070	ST HWY COMMISS	102	SANDSTONE	062364	1.20	39	29	--	--	--	--	--	--	--	--	--	215	--
12/07/09-0072	DEPT INTERIOR	117	GLACIAL	032670	.17	34	31	--	--	258	0	15	1.0	--	1.4	258	213	7.9
13/07/26-0075	VIL OF GENOA	230	SANDSTONE	100169	.07	50	28	3.4	--	268	0	7.0	.5	.4	1.8	266	240	7.9
14/05/07-0076	VIL COON VALLEY	450	---	071366 092364	.37 .28	47 47	21 24	1.7 --	--	227 234	0 --	16 15	1.0 .0	.1 .1	-- .0	232 218	206 218	7.8 7.6
11/07/15-0077	VIL DESOTO	165	---	071366 120545	.12 .20	59 58	32 37	2.2 --	--	312 322	0 --	17 16	1.9 6.0	.2 --	2.6 --	320 280	281 265	7.7 7.4
14/04/26-0078	CITY WESTBY	306	---	070135	.00	--	--	--	--	200	0	5.0	6.0	--	18	230	185	--
14/04/07-0079	ALTON H DOPSON	200	SANDSTONE	032570	.18	51	30	--	--	291	0	11	1.9	--	4.9	288	251	8.2
14/06/27-0080	CALVIN HAHN	105	SANDSTONE	032670	.36	60	33	--	--	331	0	18	1.0	--	2.2	298	285	7.3
13/05/09-0081	DONALD NEDLAND	295	SANDSTONE	032670	.13	51	30	--	--	291	0	6.0	2.2	--	7.7	264	251	7.2
13/06/26-0082	HARLAND HJELTER	410	SANDSTONE	032670	.05	87	13	--	--	314	0	6.4	2.5	--	6.8	274	271	8.0
14/02/14-0101	DUANE OBERT	320	SANDSTONE	101670	.14	45	29	.7	1.1	248	0	20	4.0	.1	1.8	215	230	8.0
12/04/26-0102	GREENACRE TR CT	275	SANDSTONE	101670	.20	44	20	2.1	.7	224	0	8.0	2.0	.1	9.3	199	190	8.1
13/03/12-0103	WAYNE WIRTS	411	SANDSTONE	101670	.13	53	27	1.4	.5	266	0	16	4.0	.2	4.7	224	240	8.2
13/02/36-0104	ROBERT COOLEY	90	SANDSTONE	101870	.17	61	30	1.4	1.2	308	0	16	3.0	.1	4.1	258	280	8.2
13/02/29-0105	VIL LAFARGE	500	---	071166 100559 091746	.91 .50 .20	49 49 50	24 27 23	1.0 -- --	-- -- --	245 -- --	0 0 0	20 19 18	1.0 1.8 4.5	.1 .1 .1	3.5 -- --	226 246 237	224 232 190	7.6 7.4 7.1
11/03/06-0106	VIL READSTOWN	435	---	071166 111759 100445	.53 .40 .20	61 60 53	24 30 32	3.0 -- --	-- -- --	306 -- --	0 0 0	16 17 18	2.0 1.5 9.0	.2 .1 .1	1.8 .1 --	300 278 278	253 273 290	7.9 7.8 7.4
14/02/21-0108	CORPS OF ENGR	104	SANDSTONE	080372	.27	49	27	1.5	.9	264	0	19	1.5	.2	.0	240	230	8.1

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
VERNON COUNTY (CONTINUED)																		
13/03/20-0109	VIL OF LAFARGE	190	SANDSTONE	011273	.53	57	29	1.1	1.3	284	0	18	2.0	.1	.0	248	260	7.7
14/02/34-0110	LEROY STONE	200	SANDSTONE	011273	.03	55	27	.8	1.1	270	0	23	2.0	.1	.2	243	250	7.5
VILAS COUNTY																		
41/11/02-0005	NORTHWOODS HOSP	58	GLACIAL	060271	.03	15	6.7	3.0	.3	77	0	4.3	1.0	.1	4.2	95	65	7.1
40/05/06-0017	LAC DU FLAMBEAU	61	GLACIAL	062866	.06	11	2.2	2.3	--	32	0	4.0	.0	.1	2.8	60	34	8.0
				032565	.12	10	2.2	--	--	32	0	--	.0	.2	2.7	60	34	8.0
				070164	.08	9.3	2.7	--	--	40	0	4.0	.5	.1	3.3	56	34	6.9
43/06/06-0027	WILLY ROYCK	145	GLACIAL	082870	.46	39	10	4.9	.2	166	0	7.5	2.3	.1	.9	161	139	8.1
40/08/28-0028	ST GERMAIN SCHL	94	GLACIAL	060271	1.11	11	3.9	2.0	.2	53	0	5.6	.5	.3	.8	62	44	7.9
40/11/13-0040	US FOREST SERV	92	GLACIAL	050371	1.59	12	3.8	3.6	.5	33	0	3.2	16	.2	.1	89	46	6.3
43/06/15-0047	HENRY WINTERS	186	GLACIAL	082870	.78	28	4.8	3.9	.2	114	0	5.0	.3	.1	.4	106	90	8.1
42/11/08-0050	USFS CAMPGROUND	48	GLACIAL	060271	1.47	13	3.4	1.5	.2	48	0	.8	2.0	.4	5.0	66	46	7.4
WALWORTH COUNTY																		
01/19/33-0001	VIL GENOA CITY	1080	SANDSTONE	072566	1.13	74	36	7.6	--	374	0	28	3.2	.4	1.8	338	337	7.9
				061763	1.04	72	36	--	--	366	0	26	2.0	.2	.4	340	328	7.6
				031446	1.20	69	33	--	--	377	0	28	8.5	.2	--	322	305	7.6
03/15/37-0003	STEWART BROS.	287	DOL-SS	072970	5.20	67	32	7.9	6.7	345	0	3.6	6.3	.2	34	340	67	7.5
				082069	2.23	74	25	8.0	1.2	348	0	9.2	1.0	.0	17	304	289	7.4
				041668	--	61	28	7.0	1.2	334	0	2.8	2.0	.1	9.2	282	267	7.7
04/13/13-0023	BAKER LAB	1500	SANDSTONE	052765	.15	61	26	5.7	2.0	293	0	26	3.0	.4	.4	276	259	7.5
02/17/34-0024	WALWORTH CO F+H	1702	SANDSTONE	111271	.23	67	27	21	5.1	388	0	11	2.0	.6	.0	334	280	7.4
				061063	.50	62	34	--	--	405	0	1.5	.0	.2	--	328	296	7.4
04/15/04-0025	CITY-WHITEWATER	957	---	070146	1.10	69	30	--	--	376	0	17	8.0	.1	--	308	295	7.2
04/15/04-0029	CITY WHITEWATER	657	SANDSTONE	081166	1.60	73	34	7.4	--	789	0	16	2.4	.2	1.8	352	322	7.8
01/15/33-0035	VILL OF SHARON	860	SANDSTONE	072866	1.13	77	31	7.1	--	387	0	11	4.3	.2	1.8	350	323	7.9

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
WALWORTH COUNTY (CONTINUED)																		
				111465	.56	--	--	--	--	--	--	--	--	--	--	--	--	--
				091465	1.70	--	--	--	--	--	--	--	--	--	--	--	--	--
				091765	7.74	71	--	--	--	383	0	--	--	--	.4	--	320	7.4
				061445	1.60	74	30	--	--	383	0	11	8.5	.2	--	336	285	7.3
01/16/21-0036	VIL OF WALWORTH	1154	---	050145	.60	69	30	--	--	439	0	2.5	2.4	.2	--	344	342	--
02/17/36-0037	CITY LAK GENEVA	820	DOL-SS	111271	1.70	83	40	7.2	1.5	420	0	25	5.0	.4	4.2	378	370	7.4
				090866	.86	65	34	9.6	--	394	0	5.0	1.6	.3	1.8	314	306	7.6
				011463	1.54	74	39	--	--	398	0	13	3.0	.0	.1	--	344	7.4
				012262	.66	50	20	45	--	398	0	.5	.0	.8	.0	334	212	7.5
				051958	5.60	78	43	--	--	427	0	17	2.5	.2	--	378	340	7.4
				062457	2.80	78	37	--	--	417	0	12	4.5	.1	--	368	348	7.6
				040555	2.20	79	39	--	--	416	0	20	4.5	.2	--	370	353	7.4
				041645	2.20	78	36	--	--	428	0	20	6.0	.2	--	368	365	7.2
02/16/01-0038	CITY OF ELKHORN	1652	SANDSTONE	090966	.26	56	31	21	--	421	0	2.0	.9	.4	1.8	326	271	7.5
				110565	.29	54	--	--	--	422	0	1.0	.0	.5	.3	344	260	7.6
				060254	.20	58	32	--	--	--	--	.8	1.0	.3	.1	346	277	7.4
02/16/01-0039	CITY OF ELKHORN	1648	SANDSTONE	080966	.70	59	32	19	--	410	0	2.0	.9	.4	1.8	338	279	7.6
				030562	1.04	62	35	--	--	407	0	1.0	.0	.2	.9	358	300	7.6
				060254	.20	59	33	--	--	--	--	.8	1.0	.3	.2	344	280	7.4
02/15/27-0047	VIL DARIEN	1050	SANDSTONE	012666	3.14	69	45	3.0	.3	395	0	26	2.5	.2	.1	366	358	7.5
				011464	1.45	78	36	--	--	417	0	11	3.0	.0	.0	362	344	7.3
04/19/25-0048	VIL EAST TROY	700	DOL-SS	091066	1.03	81	46	10	--	398	0	52	1.6	.5	1.8	512	394	7.6
				120861	.72	34	47	--	--	407	0	74	27	.2	.0	408	414	7.4
04/18/15-0049	VIL EAST TROY	200	GLACIAL	091066	1.44	30	40	4.4	--	394	0	49	8.0	.4	1.8	452	368	7.7
				120361	1.64	79	38	--	--	392	0	59	9.0	.2	.0	398	372	7.6
04/18/15-0050	VIL EAST TROY	99	GLACIAL	091066	.20	30	34	4.6	--	362	0	39	7.5	.4	9.3	428	342	7.5
				111964	.21	--	--	--	--	365	0	--	--	--	--	--	342	7.6
				120861	.05	75	38	--	--	365	0	41	4.0	.0	15	362	342	7.7
04/17/15-0051	TROY CR IMPR AS	626	DOL-SS	081166	1.70	72	31	1.8	--	351	0	23	2.0	.2	1.8	340	308	7.6
04/18/20-0052	VASS	2200	---	051065	2.02	--	--	--	--	372	0	10	--	--	--	303	299	7.3
01/16/01-0055	WILLIAMS BAY	293	GLACIAL	080866	1.63	65	34	20	--	462	0	3.0	.9	.4	1.8	372	304	7.6
02/16/13-0061	CITY OF DELAVAN	35	GLACIAL	090860	.08	89	79	5.5	--	396	0	45	10	.2	18	444	386	7.7
				042845	.00	61	38	5.0	--	398	--	30	8.5	.1	--	390	380	--

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
WALWORTH COUNTY (CONTINUED)																		
01/16/15-0063	VILL OF FONTANA	138	GLACIAL	072766	.03	82	42	2.5	--	371	0	51	3.5	.2	9.3	384	365	7.3
02/17/35-0067	CITY LAK GENEVA	95	GLACIAL	080866	.45	63	36	16	--	336	0	27	27	.3	4.0	410	306	7.6
				011463	.30	63	36	--	--	315	0	27	40	.0	4.2	--	304	7.3
				041962	.36	--	--	--	--	--	--	31	--	--	--	--	308	7.6
04/15/04-0069	CITY WHITEWATER	202	DOL-SS	070146	1.20	81	34	--	--	410	0	28	13	.1	--	392	350	7.2
01/16/14-0073	GLENWOOD SPG AS	155	GLACIAL	061647	.20	76	32	--	--	386	0	24	9.5	.2	--	362	345	7.5
01/16/21-0074	VIL OF WALWORTH	194	GLACIAL	050145	.10	96	39	--	--	405	0	70	28	.1	--	526	455	7.2
02/17/04-0075	WALWORTH CO HOS	208	NIAGARA	061063	1.44	77	36	--	--	410	0	7.0	2.5	--	--	356	340	7.3
01/17/06-0076	WILLIAMS BAY	257	GLACIAL	080866	3.13	67	39	20	--	466	0	3.0	6.9	.4	1.8	--	329	7.7
01/16/22-0086	VIL OF WALWORTH	88	GLACIAL	072766	.06	77	36	2.9	--	338	0	51	8.0	.2	3.9	416	343	7.8
04/15/26-0093	WISC CONS DEPT	247	DOL-SS	052768	.20	66	31	2.6	--	310	0	18	3.5	--	1.8	304	292	7.6
01/16/23-0096	VILL OF FONTANA	130	GLACIAL	072766	.03	77	35	3.6	--	329	0	36	8.5	.0	2.5	344	320	7.3
01/18/16-0099	STAR CR SCH D 4	197	NIAGARA	052768	.36	35	26	60	--	364	0	2.0	1.0	1.0	1.8	318	192	7.8
04/15/05-0106	WHITEWATER CITY	1012	---	091166	1.40	69	34	4.2	--	364	0	10	11	.3	1.8	338	314	7.5
				121362	15.00	--	--	--	--	366	0	6.0	.0	--	--	340	302	7.2
				121362	5.20	--	--	--	--	368	0	6.0	.0	--	--	322	300	7.3
				121362	2.10	--	--	--	--	364	0	4.0	.0	--	--	280	300	7.2
				121362	4.40	--	--	--	--	373	0	6.0	.0	--	--	332	300	7.0
				121362	4.40	--	--	--	--	371	0	4.0	.0	--	--	322	304	7.2
				121362	4.20	--	--	--	--	370	0	4.5	.0	--	--	330	308	7.1
				121362	4.40	--	--	--	--	371	0	4.0	.0	--	--	322	309	7.2
				121362	4.20	--	--	--	--	371	0	6.0	.0	--	--	320	304	7.1
				121362	4.40	--	--	--	--	374	0	4.0	.0	--	--	320	306	7.0
				121362	6.50	--	--	--	--	373	0	4.5	.0	--	--	338	308	7.1
				121362	3.40	--	--	--	--	373	0	4.0	.0	--	--	336	304	7.2
				120661	.04	--	--	--	--	--	--	--	--	--	--	--	384	7.6
03/16/03-0107	L WALTER	48	GLACIAL	052768	.15	76	32	88	--	317	0	31	108	.2	42	614	322	7.8
01/17/13-0114	NW MILITARYACAD	740	DOL-SS	071466	1.02	37	18	75	5.9	405	0	.9	.0	.7	--	--	168	7.2
01/15/33-0116	ANDREWS	132	GLACIAL	041465	3.15	--	--	--	--	302	0	12	2.0	--	1.1	259	250	7.8
01/15/13-0121	SEEFELDT	173	DOL-SS	041465	2.70	--	--	--	--	438	0	.8	1.0	--	.4	339	342	7.2

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
WALWORTH COUNTY (CONTINUED)																		
02/16/01-0127 CITY OF ELKHORN		1500	SANDSTONE	080966 110565	.41 .29	62 60	32 35	12 --	-- --	395 351	0 0	3.0 1.0	.9 .0	.3 .2	1.8 .3	304 284	289 292	7.6 8.1
02/15/33-0129 LIBBY		1404	---	111671 042865	.28 .98	82 73	33 34	5.5 5.6	1.1 1.0	406 390	0 0	18 8.0	1.0 2.0	.3 .3	1.7 1.0	320 317	340 322	7.9 7.3
01/16/07-0136 O DIERNO		148	---	041465	6.48	--	--	--	--	406	0	14	4.0	--	1.0	331	348	7.7
01/16/22-0141 CARBREY		207	---	041965	3.78	--	--	--	--	364	0	1.2	1.0	--	.3	280	300	7.6
01/16/03-0144 KAMMES		358	DOL-SS	041372	.05	79	39	3.8	.7	334	0	34	15	.2	39	397	358	7.8
02/15/27-0160 SNYDER		130	GLACIAL	042165	2.28	--	--	--	--	387	0	20	3.0	--	.2	334	344	7.6
02/15/12-0170 HENRY STERKEN		220	DOL-SS	041172	.19	65	39	12	1.7	440	0	.2	1.0	.2	.1	332	320	7.4
02/15/04-0172 WILKINS		148	GLACIAL	052765	1.32	--	--	--	--	378	0	18	--	--	--	324	334	7.4
02/16/14-0176 CITY OF DELEVAN		20	GLACIAL	080866 041745	.15 .00	80 78	31 32	9.8 --	-- --	353 346	0 0	34 26	23 6.2	.2 .1	6.6 --	422 --	330 350	8.0 7.2
02/16/33-0182 BOWMAN		156	GLACIAL	042165	5.96	--	--	--	--	402	0	5.6	1.0	--	1.2	361	366	7.9
02/16/17-0185 CITY OF DELAVAN		130	GLACIAL	080866	.42	80	31	3.5	--	346	0	65	6.5	.2	7.1	338	330	7.7
01/17/24-0207 LINN CHURCH		133	GLACIAL	041965	.49	--	--	--	--	345	0	73	11	--	11	419	380	7.6
01/17/21-0214 RED EYE BAR		182	GLACIAL	041372	.65	35	29	35	1.6	330	0	1.8	1.5	.9	3.6	288	210	7.4
01/17/09-0217 SYVER		220	GLACIAL	041965	10.02	--	--	--	--	414	0	.8	.5	--	.4	309	250	7.2
02/17/05-0229 DR KEN BILL		163	GLACIAL	071072	3.33	67	36	11	1.7	396	0	.4	1.0	.4	7.0	318	310	7.5
02/17/13-0233 BOSSHART		111	NIAGARA	042865	1.78	--	--	--	--	406	0	8.0	6.0	--	.1	341	330	7.7
02/17/21-0236 MALLOY		131	GLACIAL	052765	5.22	--	--	--	--	418	0	17	--	--	--	354	374	7.4
02/17/34-0243 PAPPAS		329	NIAGARA	042165	1.65	--	--	--	--	334	0	1.6	1.0	--	.1	253	226	7.4
01/18/35-0263 WORKM BENFT SOC		250	NIAGARA	110872 040672	1.04 .24	52 62	32 34	4.8 4.5	1.2 1.2	306 340	0 0	28 27	2.0 2.0	.2 .2	.0 .0	295 312	260 290	8.0 7.8
01/18/14-0268 BERTROM		160	GLACIAL	041965	.51	--	--	--	--	359	0	4.8	2.0	--	.3	296	202	7.9
02/18/08-0276 DICK SLACK		135	NIAGARA	041172	.14	50	39	12	2.1	344	0	33	3.0	.6	.5	328	280	7.6

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
WALWORTH COUNTY (CONTINUED)																		
02/18/10-0281 LYONS SCHOOL		106	NIAGARA	041965	.57	--	--	--	--	290	0	26	4.0	--	.9	259	196	8.2
02/18/14-0282 LEONARD YAHNKE		120	GLACIAL	042572	.07	87	28	3.3	1.3	330	0	35	6.0	.2	.1	350	310	8.1
02/19/23-0287 HOWARD MARGETTS		159	NIAGARA	041372	.09	86	29	3.7	1.2	392	0	19	8.0	.3	.1	329	330	7.9
02/18/25-0289 JACOBSON		164	GLACIAL	041965	4.63	--	--	--	--	343	0	30	4.0	--	.2	326	318	7.6
03/15/17-0296 CALKINS		223	DOL-SS	041265	3.02	--	--	--	--	412	0	1.2	.0	--	8.3	323	336	7.4
04/15/27-0309 UNKNOWN		--	DOL-SS	052769	.66	71	37	3.0	--	335	0	27	3.0	.2	1.8	344	328	7.8
04/15/34-0313 PETERSEN		135	GLACIAL	042365	.69	--	--	--	--	414	0	2.0	1.0	--	7.1	335	300	7.3
04/15/14-0322 ANDERSON		85	DOL-SS	042365	1.48	--	--	--	--	396	0	19	3.0	--	.3	332	354	7.6
03/16/15-0335 KNOBLOCH		328	DOL-SS	041265	5.30	--	--	--	--	436	0	1.6	.0	--	.4	357	312	7.4
03/16/03-0336 RICHARD BEHRENS		223	DOL-SS	041272	.36	68	35	2.4	1.1	359	0	24	2.0	.2	.0	327	314	7.9
03/16/03-0337 POLLARD		246	GLACIAL	041265	4.40	--	--	--	--	340	0	.8	1.0	--	1.2	266	274	7.9
04/16/21-0344 WILLIAM LAWTON		350	DOL-SS	041272	1.00	61	32	11	1.5	364	0	2.2	1.0	.4	8.5	318	280	7.4
04/16/20-0346 HETH		146	GLACIAL	042865	.77	--	--	--	--	344	0	51	6.0	--	.1	346	342	7.5
04/17/13-0355 HAVERWAS		446	GLACIAL	042365	2.78	--	--	--	--	358	0	6.8	1.0	--	.6	298	302	7.8
04/16/10-0363 WIS CONS DEPT		145	GLACIAL	042472	.22	29	13	1.9	1.0	120	0	18	4.0	.1	.1	121	130	7.8
03/17/09-0366 RIESS		220	GLACIAL	110372	3.63	68	42	23	1.6	442	0	.2	.5	.3	23	388	340	7.5
				041265	--	--	--	--	--	474	0	2.8	.5	--	38	449	378	8.1
03/17/23-0373 TROUT VALLEY		180	NIAGARA	041265	3.53	--	--	--	--	350	0	3.2	2.0	--	1.4	275	290	8.0
04/17/35-0385 J C HAUGH		216	GLACIAL	041472	2.46	68	21	17	4.3	338	0	3.0	1.0	.7	.0	270	260	7.6
04/17/15-0399 BALDERSON		364	---	052865	5.34	--	--	--	--	350	0	15	--	--	--	296	308	7.5
04/17/09-0403 ANTON STUTE		145	GLACIAL	041272	.35	60	36	2.9	1.2	332	0	27	1.0	.2	.0	310	300	7.6
04/17/09-0406 EAST TROY SCH		154	GLACIAL	042865	.17	--	--	--	--	342	0	28	5.0	--	6.5	330	322	7.6
04/17/12-0407 E W JENSEN JR		260	GLACIAL	110872	3.07	76	34	3.3	1.1	390	0	10	1.0	1.7	.4	312	330	7.6
				041472	2.02	80	33	3.4	1.1	398	0	7.4	2.0	.3	.0	321	330	7.7

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
WALWORTH COUNTY (CONTINUED)																		
03/18/13-0414 SOLA		109	NIAGARA	052765	--	--	--	--	--	370	0	34	--	--	--	365	356	7.2
03/18/16-0415 ROBINS		140	GLACIAL	041265	6.02	--	--	--	--	384	0	2.0	1.0	--	.4	315	310	7.6
03/18/05-0422 VAN BEEK		115	GLACIAL	052765	.21	--	--	--	--	422	0	20	--	--	--	372	378	7.3
04/18/16-0427 SALVATION ARMY		325	GLACIAL	052865	1.32	--	--	--	--	222	0	6.8	--	--	--	196	166	7.5
04/18/35-0428 ZELENSKI		165	DOL-SS	052765	2.42	--	--	--	--	350	0	9.6	--	--	--	285	300	7.2
04/18/02-0450 STONER		31	NIAGARA	041272	.63	100	52	5.1	1.4	466	0	67	19	.2	5.1	495	460	7.5
01/18/06-0478 SPEED CNTR DRAG		101	GLACIAL	051072	.03	88	39	3.9	.9	375	0	73	11	.3	.0	416	380	7.7
01/18/11-0480 DUNFORDS WELDIN		92	GLACIAL	041372	.87	72	39	5.1	1.6	412	0	.6	2.0	.3	.2	350	340	7.7
03/17/20-0485 SIMON SEED FARM		77	GLACIAL	041472	2.40	90	34	4.0	1.1	370	0	63	6.0	.2	.6	392	360	7.6
01/15/15-0490 JOHN KALB		43	GLACIAL	040672	.55	20	1.2	--	1.2	37	0	24	2.0	.2	6.6	77	55	6.9
01/18/25-0492 KENNETH LEEDLE		196	GLACIAL	040672	1.26	65	34	4.1	.9	354	0	22	2.0	.3	.0	312	300	7.6
02/18/06-0501 DORANCE CLAPP		97	GLACIAL	050972	1.63	71	42	5.9	1.0	414	0	9.4	10	.5	2.2	358	350	8.0
02/17/15-0508 REX ADAMS		118	GLACIAL	042572	3.87	100	27	4.9	.9	420	0	9.4	2.0	.4	1.7	346	360	7.5
02/17/36-0519 CITY LAK GENEVA		210	GLACIAL	030866	1.73	76	36	7.2	--	416	0	13	3.9	.3	1.8	372	340	7.7
				011463	1.54	76	38	--	--	416	0	10	3.5	.0	.2	--	344	7.4
				021461	2.10	--	--	--	--	408	0	--	--	--	--	--	348	7.4
03/16/14-0527 JAMES EHLEN		98	GLACIAL	041472	2.06	76	39	7.9	1.2	448	0	1.0	1.0	.4	.8	371	350	7.6
02/17/33-0538 SUNSET HILL ASS		900	DOL-SS	090165	1.24	--	--	--	--	342	0	--	--	--	--	--	212	7.8
04/15/04-0539 CITY-WHITEWATER		898	SANDSTONE	091166	2.73	76	35	2.5	--	390	0	12	3.0	.3	1.8	366	336	7.7
01/15/33-0548 VILLA OF SHARON		535	---	072966	1.23	77	30	8.2	--	409	0	3.0	1.6	.2	1.8	336	316	7.7
				091465	2.00	--	--	--	--	--	--	--	--	--	--	--	--	--
				091465	1.90	--	--	--	--	--	--	--	--	--	--	--	--	--
				031765	--	69	--	--	--	398	0	--	--	--	.4	326	312	7.4
01/15/36-0573 DON PETERS		520	DOL-SS	040672	2.33	77	34	15	1.1	442	0	.0	1.0	.4	6.8	347	330	7.7
01/15/33-0584 SHARON MILK CO		--	---	091765	6.88	76	--	--	--	396	0	--	--	--	.4	416	344	7.5
01/16/14-0589 COUNTRY CLUB ES		149	GLACIAL	072766	.00	30	36	3.8	--	339	0	44	14	.2	4.1	412	351	7.6

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
WALWORTH COUNTY (CONTINUED)																		
				110446	.00	74	28	--	--	339	0	34	8.0	.1	--	350	420	7.5
01/17/12-0592	VAUGHN SHOEMKR	165	NIAGARA	040672	.11	43	34	14	1.6	336	0	.6	1.0	.2	.0	264	250	7.7
04/16/14-0593	C J RHODES	--	GLACIAL	052868	.22	108	44	7.2	--	395	0	43	15	.2	71	580	452	7.4
01/15/13-0597	HONEY BEAR FARM	830	DOL-SS	111671	.05	62	29	29	5.8	376	0	12	2.0	.8	.5	322	270	7.4
04/16/02-0515	THOMAS HURDIS	263	DOL-SS	041272	2.34	82	19	11	1.4	385	0	.2	.0	.4	3.2	306	280	7.5
03/16/34-0616	CARL RIESE	186	GLACIAL	041172	--	62	49	11	1.3	458	0	.6	1.0	.7	1.6	370	356	7.5
02/17/21-0628	EUGENE SANKE	147	NIAGARA	050972	2.60	57	45	8.2	1.8	414	0	2.2	.7	.7	2.0	323	330	7.6
03/15/21-0635	WILLIAM JOHNSON	99	GLACIAL	042772	.09	86	23	2.2	1.0	325	0	22	3.5	.2	15	310	310	7.5
04/15/27-0642	CLARENCE KREBS	143	DOL-SS	042772	.35	84	28	3.5	1.2	315	0	27	3.0	.2	.3	317	320	7.4
04/13/23-0650	GUNVAR HOLM	282	GLACIAL	042672	1.94	90	34	5.3	1.2	438	0	6.2	1.0	.3	.8	351	360	7.8
WASHBURN COUNTY																		
38/13/25-0004	VIL SHELL LAKE	578	SANDSTONE	071966	.06	34	16	3.1	--	192	0	3.0	.4	.2	1.8	186	152	7.9
39/12/31-0005	CITY OF SPOONER	217	GLACIAL	071966	.45	44	11	16	--	203	0	3.0	14	.2	1.8	220	156	7.9
				051746	.46	40	10	--	--	210	0	2.0	16	.1	--	206	132	7.4
38/13/25-0006	VIL SHELL LAKE	480	SANDSTONE	111667	.10	39	--	4.5	--	181	0	3.5	1.0	.9	.3	176	144	7.4
39/13/11-0010	CHARLES CASLER	152	GLACIAL	060369	1.11	18	6.0	--	--	76	0	5.6	2.0	--	8.9	99	70	7.6
39/12/31-0013	CITY OF SPOONER		GLACIAL	071966	.13	33	7.1	4.8	--	128	0	7.0	4.4	.1	1.8	152	112	8.0
				010146	.00	32	7.4	--	--	137	0	7.0	3.5	.0	--	146	96	7.3
39/10/25-0023	O E SEBERT	141	GLACIAL	052467	.63	--	--	--	--	196	0	3.2	1.0	--	.0	167	155	7.6
40/10/30-0024	CARL G SLAYTONP	124	SANDSTONE	060369	.30	18	6.6	--	--	87	0	6.4	1.0	--	.5	86	72	8.1
41/11/27-0026	GEORGE GRAHAM	100	GLACIAL	060369	.03	27	9.0	--	--	110	0	4.9	2.0	--	18	131	105	7.6
37/11/05-0035	JIM CHURAN	56	GLACIAL	052467	2.00	--	--	--	--	76	0	10	6.0	--	1.4	92	70	6.9
41/12/26-0048	STATE HWY COMM	97	GLACIAL	053160	--	--	--	--	--	117	0	--	--	--	--	--	100	7.6

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
WASHBURN COUNTY (CONTINUED)																		
40/12/06-0054	H S WOODLIFF	83	GLACIAL	060368	--	--	--	--	--	108	0	6.0	.5	--	1.4	--	92	8.2
39/12/32-0055	CITY OF SPOONER	77	GLACIAL	041868	.32	32	8.7	2.7	--	115	0	12	1.5	.1	4.9	150	116	7.6
WASHINGTON COUNTY																		
10/18/21-0007	CITY HARTFORD	621	MULTIPLE	072766	1.01	69	34	17	--	382	0	36	3.5	1.0	.5	348	312	7.5
				010665	.18	69	34	17	2.9	382	0	36	3.5	1.0	.5	348	312	7.5
10/18/21-0013	CITY HARTFORD	735	MULTIPLE	072766	.99	79	36	13	2.0	366	0	67	12	.3	.1	416	346	7.4
				010665	1.74	79	36	13	2.0	354	0	67	12	.3	.1	416	346	7.4
12/19/05-0017	VILL OF KEWASKUM	405	MULTIPLE	070566	.93	89	47	7.6	--	386	0	68	14	.2	1.8	502	420	7.6
12/19/05-0018	VIL OF KEWASKUM	503	NIAAGARA	070566	.23	82	42	7.2	--	359	0	59	14	.2	1.8	490	378	7.6
11/19/11-0022	CITY WEST BEND	275	MULTIPLE	070766	.06	73	40	2.9	--	373	0	24	4.1	.2	3.1	406	349	7.5
				041961	.04	72	40	--	--	373	0	23	2.0	.0	5.9	356	336	7.3
				032452	.00	69	39	--	--	376	0	17	5.0	.8	--	308	324	7.5
11/19/14-0023	CITY WEST BEND	380	NIAAGARA	070766	.06	68	38	4.4	--	361	0	21	2.4	.4	1.8	364	327	7.6
				041961	.40	67	38	--	--	364	0	20	1.0	.4	1.0	320	314	7.3
09/20/22-0026	GEHL DAIRY	232	NIAAGARA	071162	.16	3.6	--	--	--	359	0	59	3.0	.1	2.1	376	348	7.3
10/18/27-0029	CITY HARTFORD	583	MULTIPLE	072766	.28	69	32	19	--	405	0	23	2.5	.1	.4	344	302	7.4
				010665	.24	69	32	19	1.5	405	0	23	2.5	.1	.3	344	302	7.4
				022856	.10	66	26	16	--	383	0	7.5	2.0	.6	--	320	294	7.5
09/20/34-0030	PILGRM HGTS SUB	1302	SANDSTONE	110972	.06	100	28	7.6	2.0	320	0	110	3.9	.1	.0	458	360	8.1
				071769	.31	118	18	7.2	2.2	314	0	116	3.0	.5	.2	468	369	8.0
				042569	.37	102	28	7.0	1.8	328	0	105	5.0	.3	.1	459	370	7.7
				052467	.59	111	23	7.1	2.0	326	0	109	6.0	.3	.2	464	372	7.7
				072966	.62	107	26	5.1	--	320	0	110	.9	.3	1.8	450	375	7.8
				041266	.52	--	--	--	--	324	0	115	5.5	.2	.1	469	388	7.6
				032965	.37	102	30	8.4	1.8	314	0	116	7.0	.0	.0	464	378	7.6
				082464	--	104	25	7.2	--	315	0	112	5.5	--	.0	--	364	7.3
				112963	.91	--	--	9.8	--	324	0	118	6.0	--	--	473	372	7.1
				050363	--	--	--	9.8	--	320	0	118	6.0	--	--	468	368	7.4
10/18/18-0033	PLEASANT HILL C	237	DOL-SS	051867	2.20	--	--	--	--	202	9	12	2.0	--	1.1	172	165	8.5
10/18/23-0034	CITY HARTFORD	820	MULTIPLE	072766	.27	74	31	16	--	395	0	32	3.0	.4	.1	352	312	7.4

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
WASHINGTON COUNTY (CONTINUED)																		
				010665	.20	74	31	16	2.5	383	0	32	3.0	.4	.1	352	312	--
				022356	.10	69	27	21	--	378	0	24	.4	.6	--	340	300	7.6
10/19/13-0042 VIL OF SLINGER		78	GLACIAL	072666	.44	87	42	15	--	404	0	45	26	.2	8.0	518	392	7.8
10/19/13-0050 VIL OF SLINGER		317	NIAGARA	072266	.62	60	38	3.1	--	345	0	26	4.0	.2	1.8	352	308	7.8
10/19/13-0051 VIL OF SLINGER		215	NIAGARA	072266	1.33	80	41	10	--	399	0	44	14	.2	1.8	444	372	7.7
				062145	1.40	59	31	--	--	354	0	10	7.0	.2	--	314	335	7.3
10/18/26-0052 CITY HARTFORD		50	GLACIAL	072766	.53	79	40	3.5	--	370	0	50	6.0	.6	1.9	378	360	7.4
				010665	.39	79	40	3.5	1.3	370	0	50	6.0	.6	1.9	378	360	7.4
10/18/08-0055 ROBERT WATSON		109	NIAGARA	102772	.10	90	59	16	1.4	416	0	91	43	.1	.0	520	470	7.8
				051967	.05	--	--	--	--	328	0	64	18	--	.3	377	345	7.9
11/20/30-0056 ED AHLERS		899	DOL-SS	061162	--	90	34	--	--	170	0	680	160	--	--	1390	365	7.8
10/19/18-0057 VILL OF SLINGER		22	---	062145	.60	56	32	--	--	342	0	18	7.0	.1	--	310	335	7.7
09/20/23-0073 VILL GERMANTOWN		342	---	072966	.62	146	38	4.7	--	327	0	240	2.1	.5	1.8	670	523	7.8
				041866	.44	111	34	4.2	1.4	324	0	150	3.5	.5	.3	500	418	7.4
				120664	.16	155	47	--	--	312	0	320	5.0	.8	--	--	580	7.6
				110964	.32	--	--	--	--	280	0	112	68	--	17	--	436	8.2
11/19/14-0089 CITY WEST BEND		88	GLACIAL	112867	.04	72	39	3.1	--	332	0	46	7.5	.4	--	378	340	7.3
				040666	.10	76	38	3.2	1.1	349	0	44	6.0	.2	6.9	360	344	7.6
11/18/19-0133 R KRENZELOK		118	NIAGARA	051967	1.11	--	--	--	--	404	0	47	3.0	--	.3	389	375	7.6
12/18/32-0136 W BOGENSCHNIDER		143	GLACIAL	051867	.90	--	--	--	--	338	0	10	2.0	--	.1	263	280	7.9
12/18/10-0138 WAYNE SCHOOL		205	NIAGARA	051867	1.20	--	--	--	--	374	0	11	2.0	--	1.0	296	317	7.6
11/18/15-0143 ALLENTON SAN DT		766	DOL-SS	072666	.50	98	35	7.6	--	360	0	96	4.0	.4	.9	476	378	7.6
				110564	.47	92	35	--	--	360	0	96	4.0	.4	.7	476	378	7.6
				101162	.52	90	38	--	--	359	0	84	3.0	.2	--	--	380	--
				121661	1.84	--	23	--	--	382	0	--	--	.2	.3	--	284	7.7
11/19/23-0354 CITY WEST BEND		89	GLACIAL	112867	.03	72	35	2.5	--	312	0	34	4.0	--	--	342	324	7.1
09/20/22-0417 CALVARY UM CHRCH		180	NIAGARA	110972	.84	210	87	4.4	3.7	290	0	610	6.1	.5	1.8	1170	880	7.3
				073062	--	--	--	--	--	--	--	126	2.0	.8	.0	--	1480	7.2
10/20/19-0419 VILL OF JACKSON		--	---	101767	2.84	76	28	6.8	--	332	0	29	.0	.4	.8	352	308	7.8

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
WASHINGTON COUNTY (CONTINUED)																		
11/19/14-0419 CITY WEST BEND		298	NIAGARA	070766	.06	91	44	80	--	401	0	54	18	.2	3.1	516	412	7.3
				041961	--	73	41	--	--	371	0	25	2.0	1.0	5.0	332	336	7.4
				032452	.00	74	41	--	--	373	0	36	6.0	.6	--	352	344	7.6
				080546	.00	72	32	--	--	376	0	30	10	.1	--	352	295	--
				042745	.00	74	37	--	--	378	0	39	6.8	.1	--	360	370	7.3
11/19/14-0420 CITY WEST BEND		92	GLACIAL	070766	.12	83	41	3.3	--	356	0	55	10	.2	1.8	450	380	7.5
				041961	.07	78	39	--	--	357	0	54	4.5	.0	3.5	364	352	7.3
				032452	.00	75	40	--	--	351	0	50	5.0	--	--	350	334	7.6
				082746	.00	76	28	--	--	344	0	38	6.5	.1	--	356	300	7.6
				080546	.00	72	32	--	--	345	0	40	12	.1	--	342	355	--
				042745	.00	68	34	--	--	376	0	12	4.2	.1	--	332	355	7.4
11/19/23-0421 CITY WEST BEND		72	GLACIAL	070766	.22	87	43	5.1	--	365	0	73	10	.2	1.8	466	398	7.5
				041961	.40	75	35	--	--	342	0	47	2.0	.1	3.4	346	330	7.4
09/20/23-0423 PAUL EHLE		--	----	073062	--	--	--	--	--	--	--	58	3.5	.0	17	424	324	7.9
11/19/23-0424 CITY WEST BEND		70	GLACIAL	012969	.22	87	43	5.1	--	365	0	73	10	.2	1.8	466	398	7.2
WAUKESHA COUNTY																		
07/20/24-0002 MARION HTS SUBD		1708	MULTIPLE	112967	.10	72	27	27	--	210	0	134	9.0	1.0	.5	428	290	7.3
				0322E3	.12	66	29	23	--	224	0	146	7.0	.8	.8	422	286	7.6
08/20/10-0003 VIL MENOM FALLS		1140	---	121346	.00	92	48	--	--	424	0	70	24	.4	--	512	435	7.1
				050146	.00	96	46	--	--	429	0	90	25	.2	--	530	450	7.2
08/20/03-0004 VIL MENOM FALLS		1408	MULTIPLE	072866	.14	117	30	8.6	--	305	0	155	7.5	.4	1.8	536	418	7.7
				011166	.04	111	31	--	--	--	--	--	12	.4	--	--	415	--
				0914E5	.12	--	--	--	--	--	--	--	13	.3	--	--	458	--
				033065	.18	--	--	--	--	393	0	--	--	--	--	--	468	7.1
				060663	.06	106	47	--	--	398	0	112	10	.2	6.2	546	462	7.2
				121346	.00	114	44	--	--	373	0	165	14	.4	--	564	360	7.2
				050146	.00	108	41	--	--	400	0	170	13	.4	--	566	470	7.3
06/19/10-0005 CITY WAUKESHA		1994	SANDSTONE	070766	.45	113	27	6.9	--	293	--	147	4.6	.6	2.2	528	393	7.8
				010161	.56	98	24	--	--	303	0	99	3.5	.4	--	442	352	7.4
				010161	.90	107	22	--	--	306	--	133	6.7	.4	--	455	346	7.6
				010156	.13	165	40	--	--	293	0	269	12	.4	--	694	516	7.6
				010147	.00	102	30	--	--	310	--	125	11	.4	--	510	345	7.3
				010146	.30	80	20	--	--	306	--	66	7.0	.4	--	368	260	7.4
06/19/02-0006 CITY WAUKESHA		1785	SANDSTONE	070766	.29	70	26	8.2	--	262	0	66	4.4	.6	1.8	358	283	7.6

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WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MM	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
WAUKESHA COUNTY (CONTINUED)																		
				010161	.10	85	18	--	--	278	0	74	7.4	.4	--	351	286	7.8
				010161	1.90	71	23	--	--	254	0	70	5.5	.4	--	350	276	7.4
				010156	.10	77	25	--	--	272	0	61	8.3	.4	--	340	292	7.8
				010146	.40	69	24	--	--	273	0	76	8.0	.4	--	354	270	7.6
06/19/04-0007 CITY WAUKESHA	2010	SANDSTONE	070766	.50	87	30	6.9	--	--	321	0	73	4.6	.5	1.8	418	344	7.7
			010161	.18	88	27	--	--	--	348	0	71	6.3	.4	--	386	326	7.7
			010161	.46	88	26	--	--	--	326	0	68	4.5	.4	--	390	332	7.4
			010156	.33	94	35	--	--	--	333	0	62	8.4	.4	--	384	334	7.8
			010147	.00	81	33	--	--	--	337	0	58	13	.4	--	400	345	7.4
			010146	.20	78	27	--	--	--	339	0	64	7.0	.4	--	374	300	7.4
06/19/07-0008 CITY WAUKESHA	1907	SANDSTONE	070766	.41	91	28	11	--	--	278	0	114	12	.6	1.8	480	344	7.6
			010161	.29	90	20	--	--	--	291	0	97	12	.6	--	438	336	7.4
			010161	.10	99	28	--	--	--	332	0	110	19	.4	--	482	370	7.6
			010156	.12	104	8.0	--	--	--	295	0	110	17	.5	--	452	354	7.6
			010147	.00	89	30	--	--	--	273	0	130	17	.5	--	506	315	7.5
			010146	.05	88	26	--	--	--	287	0	118	16	.5	--	460	290	7.5
06/18/22-0009 BROOK HILL FARM	1330	SANDSTONE	060762	.97	44	29	--	--	--	286	0	12	2.0	--	--	251	229	7.6
07/19/31-0017 WHITEROCK CO	1525	SANDSTONE	040463	.24	60	25	--	--	--	261	0	24	2.5	.4	.1	298	244	8.0
07/17/05-0020 C W AEPPLER	773	SANDSTONE	080972	.56	58	31	6.3	1.0	--	324	0	14	4.0	.3	1.4	294	270	7.5
07/19/05-0027 CTY PEWAUKEE	1345	SANDSTONE	070666	.19	63	28	9.8	--	--	305	0	29	2.2	1.2	1.8	334	275	7.9
07/19/18-0028 HIGHLAND COOP	1249	---	081066	.50	54	26	7.5	--	--	285	0	44	1.4	.4	2.2	262	243	8.0
07/20/34-0035 WESTCHESTR COOP	315	NIAGARA	081066	1.03	73	46	6.5	--	--	423	0	38	1.4	.5	2.7	428	372	8.1
05/18/26-0036 VIL MUKWONAGO	1541	SANDSTONE	070766	.24	58	23	6.9	--	--	257	0	32	2.1	.5	.4	300	241	7.8
			081063	.27	55	23	--	--	--	273	0	21	3.0	.4	.1	266	232	7.8
			061145	.20	53	22	--	--	--	250	0	38	5.5	.4	--	256	235	7.4
05/18/26-0037 VILL MUKWANAGO	396	NIAGARA	070766	.20	74	39	9.2	--	--	361	0	42	14	.5	.4	416	348	7.6
			051063	.12	72	43	--	--	--	371	0	44	16	.4	.2	400	358	7.6
			061145	.40	91	44	--	--	--	476	0	80	27	.2	--	502	390	7.2
08/17/15-0040 REDT FATHERS	702	MULTIPLE	060172	.56	56	42	5.0	1.8	--	325	0	39	8.0	.4	.1	358	310	8.0
08/20/15-0050 MARTIN JENKINS	86	NIAGARA	110972	2.15	82	50	21	2.3	--	416	0	49	37	.1	.4	454	410	7.4
			041172	.59	93	34	20	2.8	--	360	0	67	38	.3	1.0	435	370	7.4
06/20/04-0060 H SHEETS	135	NIAGARA	092266	.20	--	--	--	--	--	--	--	--	--	--	--	--	380	--

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
WAUKESHA COUNTY (CONTINUED)																		
08/17/13-0104 CITY OCONOMOWOC	827	---		070566	.50	60	34	7.7	--	338	0	16	3.8	.4	1.8	334	291	7.8
				051763	.60	59	35	--	--	337	0	20	2.5	.2	.3	300	292	7.4
				042946	.20	58	30	--	--	354	0	4.5	3.2	.2	--	290	275	7.5
09/17/33-0105 CITY OCONOMOWOC	781	---		070566	.55	63	32	7.0	--	338	0	14	2.1	.2	1.8	342	289	7.8
				060763	.40	62	32	--	--	339	0	9.5	.0	.2	1.7	302	284	7.4
				042946	.40	63	32	--	--	371	0	8.0	3.8	.2	--	310	315	7.4
08/17/35-0106 CITY OCONOMOWOC	731	SANDSTONE		070566	.56	62	36	6.5	--	346	0	16	3.3	.2	1.8	348	304	7.8
				060763	.64	61	34	--	--	339	0	13	2.0	.2	1.3	300	292	7.4
				042946	.30	60	30	--	--	354	0	9.0	4.0	.2	--	294	305	7.5
05/17/22-0117 VIL OF EAGLE	880	SANDSTONE		060672	.05	53	27	3.6	2.0	300	0	5.2	.5	.3	2.3	244	240	7.9
				081066	.06	60	29	3.4	--	333	0	6.0	1.3	.4	1.8	284	269	7.8
				051063	.06	63	27	--	--	325	0	3.0	50	.2	.5	--	268	7.6
				060762	.04	56	18	--	--	328	0	7.2	.5	--	--	277	214	7.5
06/19/15-0125 CITY WAUKESHA	2120	SANDSTONE		011773	.50	150	21	9.2	5.1	274	0	220	5.0	.6	.0	576	460	7.5
				052567	.56	188	19	10	5.0	262	0	335	8.0	.7	.2	756	548	7.5
				070766	.57	181	20	10	--	256	0	310	6.3	1.0	2.2	776	536	7.6
				061566	.51	--	--	--	--	264	0	329	8.0	--	.0	730	536	7.3
				032965	.05	86	24	9.1	3.3	240	0	117	4.5	.5	.0	379	313	7.7
				082664	.59	170	20	9.7	--	262	0	303	7.0	--	.0	--	506	7.0
				112763	.66	--	--	11	--	274	0	285	6.0	--	--	687	496	7.1
				062262	.57	202	18	--	--	260	0	401	8.5	--	--	842	578	7.2
				010161	.69	202	18	11	--	259	0	353	8.0	.6	--	818	562	7.3
				010161	.21	210	22	--	--	268	0	377	9.5	.5	--	836	578	7.6
				010158	.50	156	26	--	--	281	0	290	6.0	.6	--	656	474	7.5
				010156	.37	142	13	--	--	285	0	251	8.9	.5	--	618	480	7.6
08/20/35-0129 RIVERVIEW MANOR	250	NIAGARA		081766	.94	83	45	9.5	--	375	0	83	10	.5	2.2	462	396	7.8
				032263	--	76	42	--	--	367	0	62	7.5	.2	.4	428	364	7.4
07/19/09-0137 CITY PEWAUKEE	1251	SANDSTONE		070666	.35	70	29	15	--	301	0	62	6.5	.4	1.8	396	296	8.2
				061362	.33	68	17	--	--	310	0	58	8.0	--	--	338	240	7.5
05/20/04-0139 ARMY PROJ M-64	274	NIAGARA		010757	.53	74	42	4.8	1.0	420	0	15	2.0	.1	.1	351	357	7.4
07/19/35-0140 ARMY PROJ M-74	237	NIAGARA		090464	.69	75	41	3.7	.9	388	0	46	2.5	.1	.3	368	356	7.7
				010857	.84	75	40	5.2	.7	390	0	28	5.6	.0	.2	365	352	7.4
06/19/01-0141 USAAA M74 LAUNC	201	NIAGARA		010857	.03	31	16	70	1.0	90	0	204	6.2	.9	.3	402	144	7.6
05/20/34-0142 USAAA LAUNCH	362	GLACIAL		022057	.06	74	33	4.0	--	337	0	44	5.0	--	3.0	--	322	7.5
08/20/18-0143 WAUKESHA CO PK	199	NIAGARA		011057	.20	90	42	8.4	1.2	348	0	118	3.0	.2	.1	458	397	7.4

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
WAUKESHA COUNTY (CONTINUED)																		
07/20/25-0146	NOTRE DAME CONV	1215	SANDSTONE	032659	--	--	--	--	--	449	0	--	--	--	--	--	512	7.6
				032658	--	--	--	--	--	432	0	--	--	--	--	--	506	7.4
08/20/03-0148	VIL MENOM FALLS	1322	SANDSTONE	072866	.40	142	23	9.1	--	285	0	220	7.0	.4	1.8	602	454	7.7
				011166	.26	138	25	--	--	--	--	--	11	.4	--	--	448	--
				033065	.32	--	--	--	--	293	0	--	--	--	--	--	420	7.3
				091464	.12	--	--	--	--	--	--	--	11	.3	--	--	430	--
				060663	.38	139	26	--	--	282	0	250	10	.2	.1	622	455	7.4
08/18/03-0150	VIL OF HARTLAND	92	GLACIAL	112172	.08	70	40	13	2.3	308	0	49	36	.4	7.6	370	340	7.9
				070666	.06	77	34	5.2	--	324	0	41	10	.2	2.1	404	336	7.6
				051763	.48	79	37	--	--	344	0	42	9.5	.0	2.9	386	352	--
06/20/14-0153	MONTEREY PK SBD	405	MULTIPLE	091066	.74	67	54	9.1	--	480	0	42	1.8	.8	1.8	454	394	8.0
				032162	.40	68	62	--	--	483	0	34	.0	.7	1.3	466	425	7.8
05/20/21-0154	UNION HIGH SCH	1022	MULTIPLE	060762	.46	28	29	--	--	282	0	17	2.0	--	--	259	189	7.9
08/20/35-0156	SILVER SPG SUBD	305	NIAGARA	081766	1.83	68	48	15	--	370	0	93	12	.6	2.2	456	372	7.7
				032263	.60	65	48	--	--	365	0	76	7.5	.4	.4	426	360	7.5
07/20/36-0166	CT O BROOKFIELD	1029	SANDSTONE	090966	.75	93	26	20	--	249	0	160	11	.5	2.2	504	340	7.8
06/19/08-0168	WAUKESHA	2075	SANDSTONE	070766	.49	79	26	5.8	--	320	0	53	2.1	.5	2.2	372	306	7.8
				010161	.60	76	25	--	--	315	0	42	2.0	.4	--	342	298	7.3
				010161	.15	93	21	--	--	329	0	66	4.8	.4	--	357	298	7.6
07/20/31-0174	WESTBROOKE SUBD	350	NIAGARA	091866	.45	78	36	3.3	--	341	0	58	9.0	.5	1.8	374	344	8.1
				060763	.44	82	37	--	--	378	0	40	12	.2	1.1	384	360	7.4
07/20/31-0175	WESTBROOKE SUBD	314	NIAGARA	091866	.25	73	37	4.7	--	368	0	43	6.0	.9	1.8	354	338	7.9
				032163	.88	71	36	--	--	366	0	25	3.0	.2	2.7	362	326	7.4
08/20/11-0176	VIL MENOM FALLS	66	GLACIAL	112972	.63	160	28	26	2.6	416	0	130	51	.3	.4	628	510	7.5
				072366	.49	95	50	16	--	393	0	120	15	.4	1.8	550	446	7.7
				011166	.44	91	54	--	--	--	--	--	27	.4	--	--	452	--
				091465	.20	82	55	--	--	--	--	--	26	.4	--	--	--	--
				033065	.44	--	--	--	--	378	0	--	--	--	--	--	440	7.2
				060663	.34	79	49	--	--	376	0	78	16	.2	.5	470	400	7.9
07/20/04-0178	IMPERIAL ESTATE	1742	SANDSTONE	090966	.46	30	20	16	--	211	0	130	12	.5	1.8	410	285	8.2
09/19/22-0180	SUSSEX ESTATES	1292	MULTIPLE	090166	.39	82	25	14	--	299	0	90	9.5	.5	2.2	390	308	7.8
06/19/16-0194	CITY WAUKESHA	2141	SANDSTONE	060672	.47	86	14	7.8	4.4	260	0	72	8.0	.6	.3	339	270	7.9

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
WAUKESHA COUNTY (CONTINUED)																		
				070766	.43	81	22	5.9	--	282	0	64	2.2	.5	2.2	364	296	7.7
07/20/04-0210 IMPERIAL ESTATE		350	MULTIPLE	080966	.26	78	27	11	--	278	0	100	6.0	.5	1.8	384	309	7.8
07/20/18-0213 CAMELOT FOR SUB		250	MULTIPLE	080966	.39	98	40	6.5	--	372	0	85	37	.2	1.8	512	410	7.8
08/19/25-0215 HAMILTON HIGH S		295	MULTIPLE	112772	.18	110	8.7	17	3.5	246	0	110	22	.3	.1	402	310	7.8
07/20/18-0217 CAMELOT FOR SUB		250	MULTIPLE	080966	.03	99	41	10	--	375	0	85	47	.2	1.8	566	418	7.7
08/20/11-0224 VIL MENOM FALLS		62	MULTIPLE	092865	1.40	42	--	--	--	--	--	--	42	.6	--	--	375	--
07/20/01-0229 MILW ELEC TOOL		385	NIAGARA	111072	4.51	120	59	47	2.4	334	0	160	140	.3	.4	720	540	7.9
06/20/01-0233 FOREST VIEW HTS		1500	SANDSTONE	081864	.57	96	38	18	--	295	0	143	14	.5	2.2	484	398	7.7
07/20/09-0237 DOMINIC HTS SUB		359	MULTIPLE	080966	.48	54	24	4.0	--	265	0	55	2.3	.7	1.8	304	237	8.0
07/20/09-0238 DOMINIC HTS SUB		1635	MULTIPLE	120867	.60	74	33	24	--	268	0	120	22	.7	.4	450	320	7.5
				102765	--	--	--	--	--	254	0	--	24	.4	--	--	336	8.1
07/20/14-0240 MISSION HTS SUB		360	NIAGARA	083066	1.14	74	44	12	--	343	0	88	12	.8	2.1	462	370	7.6
				072065	.57	--	--	--	--	--	--	--	--	--	--	--	328	8.3
08/20/36-0243 VIL OF BUTLER		1697	SANDSTONE	081467	.47	117	21	8.5	--	171	0	245	8.0	.6	--	546	380	7.4
				111865	.39	111	22	--	--	180	0	180	10	.3	.3	--	372	7.3
06/17/02-0247 LAD LAKE SCHOOL		233	GLACIAL	092167	1.20	79	35	4.2	--	376	0	16	7.0	.2	.9	362	340	7.5
08/17/04-0349 HARVEY KOEPKE		61	GLACIAL	112272	1.91	94	41	2.9	1.2	370	0	59	20	.2	.1	426	400	7.9
06/20/03-0350 CITY NEW BERLIN		1800	SANDSTONE	060672	.64	120	28	16	4.8	302	0	160	16	.5	.1	524	410	7.8
				081866	.62	119	25	17	--	305	0	165	14	1.0	2.2	542	400	7.8
05/18/23-0353 CITY MUKWONAGO		1500	SANDSTONE	060272	.17	68	19	7.7	3.0	272	0	23	7.0	.6	.1	248	250	7.6
07/20/20-0356 ELMBROOK MEMORL		1570	SANDSTONE	060672	.46	67	35	19	4.0	270	0	110	16	.6	.8	418	310	7.5
				042066	.38	--	--	--	--	281	0	--	--	--	--	--	306	--
07/18/21-0363 NAGAWAUKEE PARK		240	MULTIPLE	051365	.10	--	--	--	--	395	0	--	--	--	--	--	375	6.6
07/18/21-0366 NAGAWAUKEE PARK		152	---	102464	.16	--	--	--	--	344	0	--	12	--	--	--	298	7.5
07/19/31-0603 TORHORST SCHOOL		350	---	113072	.26	130	60	4.0	2.5	410	0	250	6.0	.2	.1	726	610	7.7
07/18/03-0607 CITY HARTLAND		69	GLACIAL	070666	.08	76	35	3.7	--	337	0	18	8.0	.2	2.7	420	336	7.8

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
WAUKESHA COUNTY (CONTINUED)																		
				051763	.60	78	36	--	--	346	0	40	8.5	.0	4.4	394	344	7.4
07/20/21-0701	SUBDIVIDERS INC	1800	SANDSTONE	082966	1.00	71	36	6.1	--	359	0	40	5.0	.4	2.1	348	326	7.5
07/18/34-0702	ELROY FALK	184	NIAGARA	051967	.34	--	--	--	--	370	0	35	7.0	--	16	377	355	7.3
08/17/28-0703	ROBERT RUMPEL	210	DOL-SS	112772	2.34	43	19	12	1.4	252	0	.0	3.0	.2	.4	206	180	8.0
				051967	3.10	--	--	--	--	348	0	6.4	2.0	--	.8	276	270	7.6
08/17/30-0705	SUNNYFIELD ACRE	856	---	070666	.27	68	36	7.1	--	371	0	16	2.7	.4	.4	376	320	7.8
				032763	.22	66	35	--	--	363	0	19	2.5	.2	.0	344	312	7.6
05/20/10-0708	MUSKEGO SCHOOL	310	DOL-SS	060272	.40	72	17	16	6.8	314	0	27	6.0	1.0	.3	299	250	7.5
07/20/01-0712	MILW ELEC TOOL	1050	DOL-SS	032972	2.27	140	60	49	32	420	0	160	140	.3	.6	862	600	7.4
07/18/32-0724	WIS SCHOOL BOYS	1140	SANDSTONE	060272	.44	61	19	4.9	3.1	282	0	12	6.0	.7	.0	241	230	7.8
08/19/20-0726	SPRING GREEN HT	1248	SANDSTONE	060672	.31	78	27	17	4.5	254	0	110	16	.5	.7	410	300	7.9
06/20/25-0757	PROSPECT HIL SC	408	MULTIPLE	090767	--	--	--	--	--	--	--	--	--	--	--	--	288	--
08/20/05-0758	VIL MENOM FALLS	1379	SANDSTONE	060172	.37	120	21	11	2.5	266	0	160	20	.4	.0	512	390	7.9
				102667	1.04	88	39	10	--	256	0	154	15	.6	.7	586	380	7.7
08/17/28-0761	CITY OCONOMOWOC	52	GLACIAL	070566	.06	86	38	7.2	--	359	0	48	14	.2	20	476	372	7.5
				100163	.08	--	--	--	--	322	0	--	--	--	--	--	380	7.9
06/20/14-0763	JOS P JANSEN CO	334	MULTIPLE	102365	.26	--	--	--	--	--	--	--	--	--	--	--	242	7.7
				090465	.05	--	--	--	--	--	--	--	--	--	--	--	234	8.1
07/20/21-0764	PLEASANT HILL S	400	NIAGARA	012759	.70	--	--	--	--	--	--	--	--	--	--	--	--	--
08/18/18-0765	N LAKE SCH DIS7	615	DOL-SS	060172	.24	91	15	7.4	2.3	364	4	5.4	6.0	.5	.0	296	290	8.3
07/20/34-0768	WSTCHSTR WAT CO	318	NIAGARA	081066	.11	73	36	4.4	--	381	0	30	2.6	.4	1.8	368	334	7.7
				060563	.84	75	39	--	--	381	0	32	4.0	.2	.5	364	348	7.3
07/20/34-0769	WESTFIELD COOP	--	---	081566	.51	75	45	4.6	--	406	0	50	5.0	.9	1.8	408	376	7.8
				032163	.32	71	45	--	--	--	--	41	4.0	.2	--	398	362	7.4
07/20/33-0819	CITY BROOKFIELD	403	NIAGARA	080966	.67	75	44	4.5	--	392	0	45	8.5	.4	1.8	414	372	7.9
08/19/05-0859	HILLVIEW SAND	335	NIAGARA	112472	.50	98	23	7.8	2.2	362	0	44	3.0	.3	.4	353	340	7.5
06/17/03-0862	VILLAGE DOUSMAN	1142	SANDSTONE	060172	.58	72	20	3.6	1.6	310	0	12	10	.4	.2	257	260	8.0

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
WAUKESHA COUNTY (CONTINUED)																		
07/18/02-0864 HARTRIDGE SUB		85	GLACIAL	112772	.04	94	43	3.8	1.3	356	0	54	21	.1	60	436	410	7.5
07/19/20-0865 RAMADA INN		1141	MULTIPLE	060272	.42	46	23	8.3	3.6	240	0	25	6.0	.8	.0	247	210	8.2
07/20/33-0873 CITY BROOKFIELD		400	NIAGARA	080966	2.36	80	36	3.7	--	390	0	30	1.8	.4	1.8	366	348	7.6
07/17/09-0875 CHUCKS SUP CLUB		70	GLACIAL	113072	.11	75	52	62	3.2	322	0	33	170	.1	15	578	400	7.8
08/19/05-0877 ROBERT SOMMERS		45	GLACIAL	112772	.06	52	27	16	2.0	170	0	27	60	.2	14	306	240	8.2
07/19/27-0878 CENTURY FENCE		120	NIAGARA	112972	.07	74	37	12	4.5	256	0	75	26	.2	30	408	340	7.9
07/19/12-0879 H SEIDL		106	NIAGARA	113072	.19	310	50	20	3.7	318	0	710	20	.9	1.0	1290	980	7.4
07/19/04-0880 K CHILSON		95	NIAGARA	113072	.06	140	21	28	4.0	424	0	46	64	.2	34	558	440	8.2
WAUPACA COUNTY																		
24/12/33-0606 WARREN G NASH		82	GLACIAL	102572	.03	170	83	31	2.3	530	0	59	64	.2	180	860	770	7.1
				010860	.09	--	--	5.9	--	412	0	15	15	.2	106	--	450	8.0
21/13/25-0723 SCHAEFER DRILLG		140	SANDSTONE	102572	.11	10	5.4	34	1.0	128	0	12	2.8	1.5	.0	140	48	7.8
				042772	.11	13	4.8	35	1.2	138	0	13	2.5	1.5	.5	143	52	8.2
WAUSHARA COUNTY																		
18/08/19-0495 DIERCKS BROS		50	GLACIAL	101664	.39	--	--	--	--	156	0	11	4.0	--	27	177	166	8.2
19/08/24-0639 GREENWOOD W REF		154	GLACIAL	083072	1.02	41	18	1.6	1.2	212	0	1.4	4.5	.1	.2	210	184	8.2
				041772	1.50	41	18	1.6	.8	216	0	.0	1.0	.1	.1	166	180	7.3
				021672	--	41	17	4.2	.8	214	0	1.4	7.0	.1	1.1	190	170	7.6
19/09/24-0642 GREENWOOD W REF		185	GLACIAL	080872	.14	40	20	2.4	.6	208	0	11	8.0	.1	5.4	196	180	7.9
WINNEBAGO COUNTY																		
20/17/26-0001 OAK HILL CEMTRY		340	SANDSTONE	102672	.08	150	31	13	3.2	298	0	260	3.1	.5	.4	669	500	7.9
				042772	.42	160	26	13	3.3	296	0	270	3.0	.6	.4	685	510	7.3
				052262	.76	139	35	--	--	285	0	265	4.0	--	--	468	491	7.9

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
WINNEBAGO COUNTY (CONTINUED)																		
19/17/31-0039 WI STATE HOSPIT		716	SANDSTONE	042872	3.29	220	5.8	31	4.7	280	0	340	55	1.3	.2	836	570	7.6
				072569	3.44	223	14	39	5.5	228	0	386	62	1.7	.5	936	614	7.3
				032568	1.02	224	17	37	4.5	214	0	419	64	1.2	.2	952	630	7.7
				051667	.91	373	30	11	3.4	278	0	778	8.0	.8	.2	1440	1060	7.5
				060366	.55	218	18	31	4.0	254	0	380	58	1.4	.2	868	619	7.4
				041665	1.18	229	23	39	4.4	224	0	439	64	.9	.1	940	667	7.4
				010763	1.60	238	18	36	4.0	222	0	377	60	1.1	--	890	670	7.8
				070161	.20	169	70	--	--	227	0	459	50	--	--	--	660	7.3
				011658	.07	--	--	--	--	295	0	--	--	--	--	--	240	7.9
				101557	.90	240	15	--	--	235	0	310	49	1.4	--	1000	679	7.4
20/17/29-0059 GALLOWAY CO		600	SANDSTONE	042772	1.03	310	33	12	3.6	210	0	680	10	.9	.1	1280	910	7.7
				072569	.92	279	24	12	4.2	162	0	700	7.0	1.2	.3	1210	795	7.4
				032568	.92	331	31	12	3.4	280	0	690	10	.7	.1	1320	954	7.6
				051667	.85	356	29	11	3.5	278	0	739	8.0	.4	.2	1380	1010	7.3
				062166	.62	288	28	13	2.9	280	0	598	8.0	1.0	.4	1140	834	7.4
				041665	2.10	344	34	12	3.2	270	0	736	8.5	.6	.1	1400	1000	7.4
				052262	1.00	340	34	--	--	277	0	758	8.0	--	--	1380	989	7.6
19/14/29-0235 CHARLES WERCH		160	SANDSTONE	102672	.57	64	35	2.0	.8	330	0	34	1.0	.3	.0	296	300	7.8
WOOD COUNTY																		
21/03/14-0054 BABCOCK RANGER		22	GLACIAL	122464	.18	--	--	--	--	20	0	25	5.0	--	6.9	75	42	6.8
21/04/15-0055 CRANMOOR CO		20	GLACIAL	053172	9.33	8.0	5.8	3.9	2.0	46	0	9.0	7.0	.2	1.4	90	44	6.3
				061071	5.91	17	4.0	4.4	1.9	52	0	10	12	.1	1.7	101	59	6.9
				082570	.35	11	7.3	5.0	.3	58	0	10	7.7	.0	1.8	106	58	6.4
				122464	8.93	--	--	--	--	30	0	3.6	7.0	--	2.1	84	26	6.3
22/04/26-0056 POTTER AND SONS		90	PRECAMB.	122464	7.24	--	--	--	--	172	0	9.2	5.0	--	.1	186	138	7.2
22/05/73-0057 WM JABOREK		20	GLACIAL	122464	.32	--	--	--	--	12	0	10	2.0	--	12	51	23	6.4
22/04/17-0101 DONALD DUCKERT		8	GLACIAL	052366	.31	17	11	19	3.1	52	0	34	31	.1	14	196	88	6.6
21/04/15-0103 R GOTTSCHALK		69	GLACIAL	052566	1.77	68	19	5.5	1.2	310	0	1.2	1.0	.2	1.8	319	248	6.7
21/04/15-0104 R GOTTSCHALK		8	MULTIPLE	113066	16.33	--	--	--	--	54	0	.8	6.0	--	4.8	96	48	6.5
				052266	13.40	6.7	4.7	--	--	43	--	.4	6.0	--	.6	114	36	--
				022466	25.00	11	5.6	--	--	70	0	--	4.0	--	.4	148	56	6.2
22/04/26-0123 KEN REZIN		35	---	052466	--	48	13	3.3	1.1	212	0	2.8	3.0	.2	1.0	248	174	7.5

TABLE 1.--SUMMARY OF CHEMICAL ANALYSES OF GROUND WATER IN WISCONSIN--CONTINUED

WELL LOCATION AND CO NUMBER	OWNER	WELL DPTH	AQUIFER	DATE ANALYS	FE +MN	CA	MG	NA	K	HCO 3	CO 3	SO 4	CL	F	NO 3	DIS. SOLIDS	HARD NESS	PH
WOOD COUNTY (CONTINUED)																		
22/04/35-0124 POTTER AND SONS		6	GLACIAL	052466	3.60	3.2	3.5	4.5	.5	4	0	8.0	14	.1	2.9	121	22	6.1
22/04/21-0130 SAHARA CRANBURY		55	SANDSTONE	052666	3.10	11	5.6	1.8	1.1	46	0	14	3.0	.1	.7	84	50	5.7
22/04/17-0131 MORRIS BROCKMAN		61	MULTIPLE	052666	--	4.1	3.1	26	1.7	36	0	17	18	.2	2.6	160	23	6.0
22/04/35-0132 CHARLES DEMPZE		12	SANDSTONE	052666	--	4.1	3.1	26	1.7	36	0	17	18	.2	2.6	160	23	6.0
21/04/11-0138 U S GEOL SURVEY		15	GLACIAL	111066	15.11	--	--	--	--	46	0	8.8	1.0	--	1.1	78	37	6.2
				111066	12.18	--	--	--	--	28	0	7.2	1.0	--	3.2	122	32	7.4
22/03/17-0468 SABENA USAREK		37	SANDSTONE	032470	8.34	7.7	3.2	2.8	--	40	0	4.0	.7	--	--	48	32	6.3
24/02/08-0469 ORVILLE HANSEN		148	PRECAMB.	032470	.26	26	13	--	--	30	0	18	30	--	93	288	118	6.5

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